

# ***LocationFreeTV***

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Operating Instructions



MEMORY STICK™

***LF-X1***  
***LF-X5***

### Owner's Record

The model and serial numbers are located at the bottom of the base station. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. LF-X1 or LF-X5

Serial No. \_\_\_\_\_

### Contacting Sony

If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Customer Information Services Center at

1-800-222-SONY (7669) (US residents only) or

1-877-899-SONY (7669) (Canadian residents only).

### Important Safety Instructions

- 1) Read these instructions.
  - 2) Keep these instructions.
  - 3) Heed all warnings.
  - 4) Follow all instructions.
  - 5) Do not use this apparatus near water.
  - 6) Clean only with dry cloth.
  - 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
  - 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
  - 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
  - 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
  - 11) Only use attachments/accessories specified by the manufacturer.
  - 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
  - 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

## WARNING

To reduce the risk of fire or shock hazard, do not expose the TV to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

### CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type.

Do not let this unit get wet. Never spill liquid of any kind on the unit. If any liquid or solid object fall through the unit, do not operate the unit. It may result in electric shock or damage to the unit.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:  
(1) This device may not cause harmful interference, and  
(2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment must not be co-located or operating in conjunction with any other antenna or transmitter.

## FCC Radiation Exposure Statement:

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power Wireless devices emit low levels of radio frequency (RF) energy in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. The LocationFreeTV has been tested and found to comply with the Federal Communications Commission (FCC) guidelines on RF energy exposures. The maximum SAR levels tested for the LF-X1 has been show to be 0.87 W/kg at Body. LF-X5 has been show to be 1.25 W/kg at Body.

- \* This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- \* When using the unit with 802.11a (5GHz), use in doors.

### LF-X1

Contains FCC ID : AK8IRF302U

Contains IC : 409B-IRF302U

### LF-X5

Base Station:

Contains FCC ID : AK8IRF302U

Contains IC : 409B-IRF302U

Monitor:

Contains FCC ID : AK8IRF303U

Contains IC : 409B-IRF303U

## NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

## FCC WARNING

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

## For customers in the United States

This product contains mercury. Disposal of this product may be regulated if sold in the United States. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance (<http://www.eiae.org>).

This class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## RECYCLING LITHIUM-ION RECHARGEABLE BATTERIES



Lithium-Ion batteries are recyclable.

You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.

For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit <http://www.rbrc.org/>

**Caution:** Do not handle damaged or leaking Lithium-Ion batteries.

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**Note**

The screen shots used in this manual are only example images.

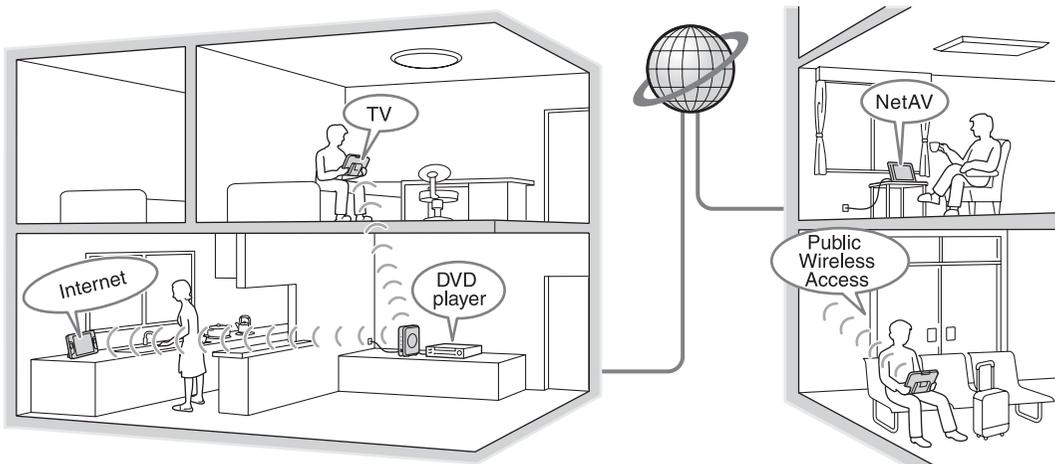
# What is a LocationFreeTV?

The LocationFreeTV is an LCD television system that embodies the LocationFree™ concept—the ability to enjoy TV, videos, DVDs, Internet browsing, mail, and digital photos wherever you happen to be. Whether you use it at home through a wireless or wired LAN connection, or away from home with the NetAV function, the LocationFreeTV allows you to enjoy video images and other media from a variety of locations.

At home, when you set up the base station in a central room, you are free to roam anywhere within its wireless transmission range carrying only the monitor.

Away from home, you can access your TV, videos, and DVDs by using the system's NetAV function to connect to your base station through the Internet. You can enjoy browsing the Internet, composing and reading mail, and viewing your digital albums.

You can also register other monitors to a base station. This allows you to use NetAV from the other registered monitors.



## Tips

- The LocationFreeTV is composed of a monitor and a base station that communicate with each other over a wireless connection. The monitor must be within about 100 feet (30 meters)\* of the base station in order to send and receive transmissions clearly.
  - \* Signal strength will differ based on operating environment.
- When the monitor is in communication with the base station, the upper of the screen displays the  indicator. (Only when using in Home-Wireless LAN.)
- The monitor operates on a rechargeable battery. Recharge the battery using the AC power adapter (supplied). (For the LF-X1, the monitor can be recharged while in use, but not for the LF-X5.)
- When the power is turned on, the base station continuously emits a wireless signal.

## Note

The LocationFreeTV transmits on the 2.4 GHz and 5 GHz\* wireless channels. In the average home, this gives it a coverage range of about 100 feet (30 meters). If other devices in the vicinity emit electrical waves, such as a wireless LAN device or microwave oven, the strength of the wireless signal may decrease. The materials used in the construction of a building's walls and floors may also affect the signal strength.

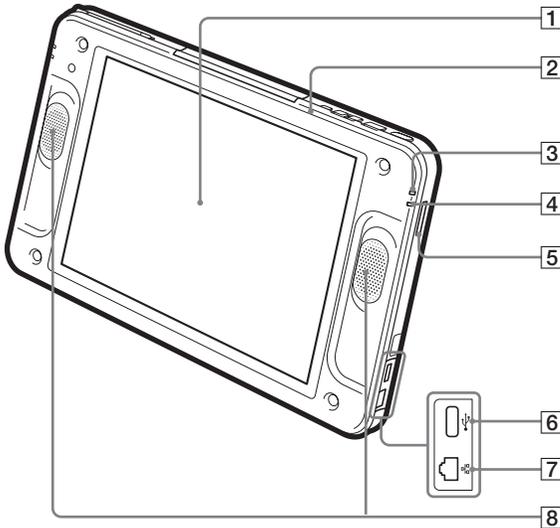
\* At time of purchase, the LocationFreeTV is set to the 2.4 GHz wireless channel.

# Identifying Parts and Controls

## Monitor

### ◆For the LF-X1

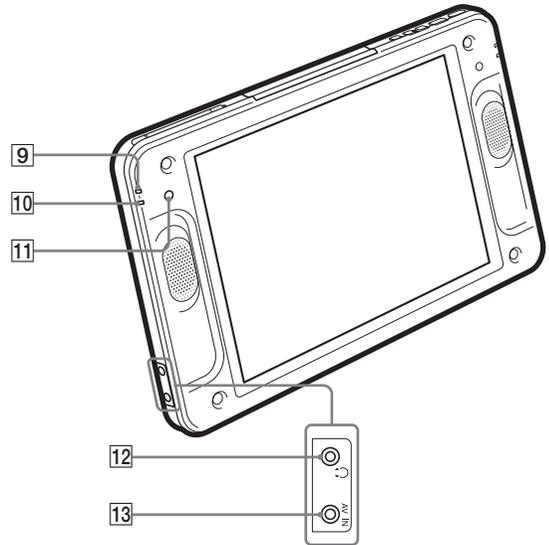
#### Right side



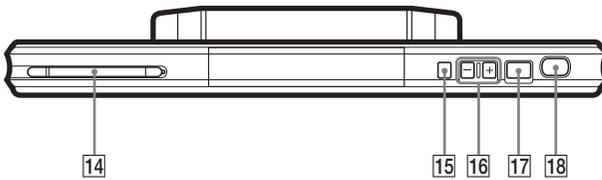
- 1** LCD (Liquid Crystal Display)/Touch Panel
- 2** POWER indicator (☞ page 26)  
Green lit: The power is on.  
Red flashing: A malfunction has occurred.
- 3** WIRELESS indicator  
Indicates the wireless function status.  
Blue lit: Connected with the wireless network on the 5 GHz channel.  
Green lit: Connected with the wireless network on the 2.4 GHz channel.  
Blue or green flashing (3 sec. intervals): Attempting to connect with wireless network. The wireless function is active but out of range.  
Blue and green flashing alternately (3 sec. intervals): Scanning for an access point when 2.4 GHz & 5 GHz is selected as the band for Public Wireless Access.  
Off: Not connected.
- 4** "Memory Stick" indicator (☞ page 122)  
Orange lit: A "Memory Stick" is being accessed.
- 5** "Memory Stick" slot (☞ page 122)  
Insert a "Memory Stick."
- 6** USB port (☞ page 119)  
Connect a commercially available keyboard.
- 7** LAN port (☞ page 60)  
Connect a LAN cable.
- 8** Speakers

**Left side**

- 9  New mail indicator (☞ page 93)  
Red lit: New mail has arrived.  
Disabled when the Mail window is open.
- 10  Battery charge indicator (☞ page 27)  
Red lit: The battery is charging.  
Off: Battery charging has finished.
- 11  Infrared receiver (☞ page 65)
- 12  Headphone jack (stereo mini)
- 13  AV IN jack  
Use an AV mini cable (VMC-20FF or VMC-20FR, not supplied) to connect a digital video camera or other AV device.

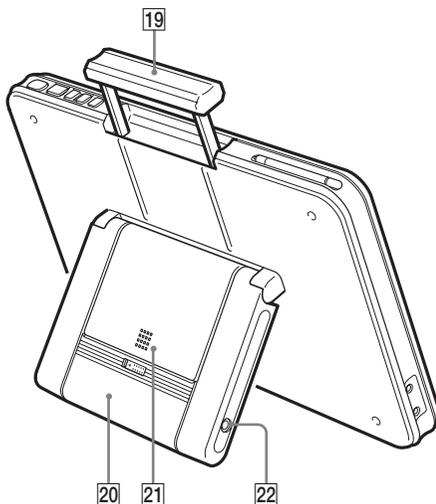


**Top**



- 14 Stylus/stylus compartment (☞ page 30)
- 15 POWER switch (☞ page 26)  
Turns the monitor power on and off.
- 16 VOLUME +/- buttons (☞ page 65)  
Adjusts the speaker volume.
- 17 CAPTURE button (☞ page 70)  
Saves the currently displayed image in the album.
- 18 INDEX button (☞ page 65)  
Displays the [Index] window.

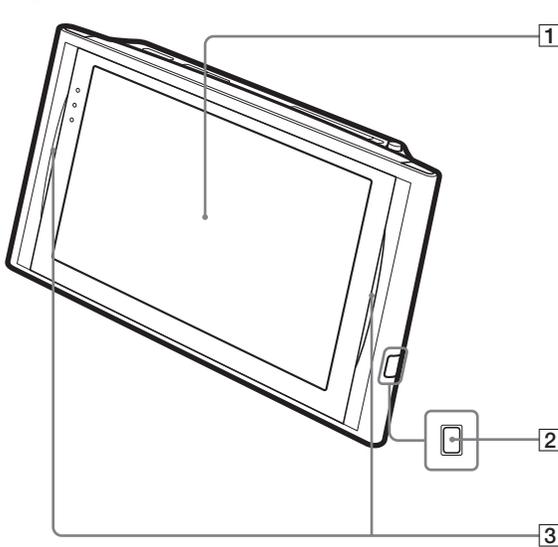
**Rear**



- 19 Monitor handle (☞ page 28)  
Pull out the handle when carrying the monitor.
- 20 Monitor stand (☞ page 28)  
Adjusts the angle of the monitor screen.
- 21 Battery (☞ page 24)
- 22 DC IN jack (☞ page 25)  
Connect the monitor AC power adapter (supplied).

## ◆For the LF-X5

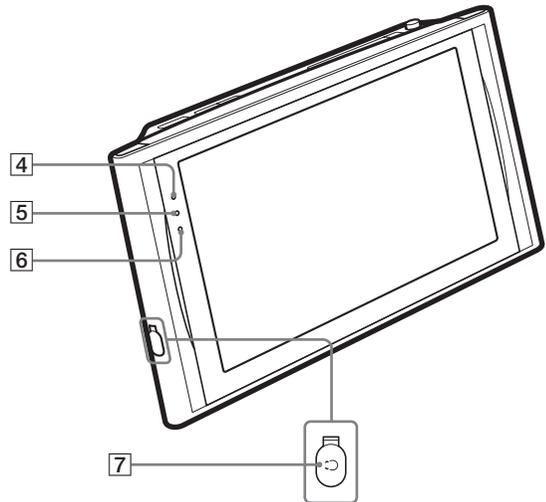
### Right side



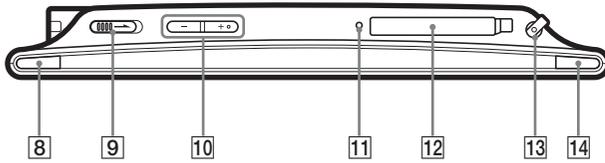
- 1 LCD (Liquid Crystal Display)/Touch Panel
- 2 DC IN jack (☞ page 26)  
Connect the monitor AC power adapter (supplied).
- 3 Speakers

### Left side

- 4 POWER indicator (☞ page 26)  
Green lit: The power is on.  
Red flashing: A malfunction has occurred.
- 5 WIRELESS indicator  
Indicates the wireless function status.  
Blue lit: Connected with the wireless network on the 5 GHz channel.  
Green lit: Connected with the wireless network on the 2.4 GHz channel.  
Blue or green blinking (3 sec. intervals):  
Attempting to connect with wireless network.  
The wireless function is active but out of range.  
Blue and green flashing alternately (3 sec. intervals):  
Scanning for an access point when 2.4 GHz & 5 GHz is selected as the band for Public Wireless Access.
- 6 Battery charge indicator (☞ page 27)  
Red lit: The battery is charging.  
Off: Battery charging has finished.
- 7 Headphone jack (stereo mini).

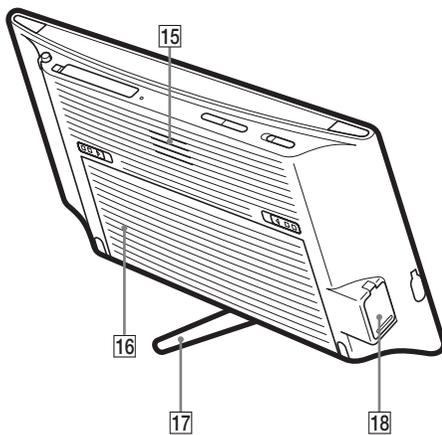


Top



- 8** CAPTURE button (☞ page 70)  
Saves the currently displayed image in the album.
- 9** POWER switch (☞ page 26)  
Turns the monitor power on and off.
- 10** VOLUME +/- buttons (☞ page 65)  
Adjusts the speaker volume.
- 11** CompactFlash card indicator (☞ page 124)  
Orange lit: A CompactFlash card is being accessed.
- 12** CompactFlash card slot (☞ page 124)  
Inserts a CompactFlash card.
- 13** Stylus/stylus compartment (☞ page 30)
- 14** INDEX button (☞ page 65)  
Displays the [Index] window.

Rear



- 15** Ventilation hole  
Do not block with cloth or other objects.
- 16** Battery (☞ page 24)
- 17** Monitor stand (☞ page 28)  
Note that metal objects may cling to the stand because there is a powerful magnet inside.
- 18** LAN connector  
Connect a LAN cable.

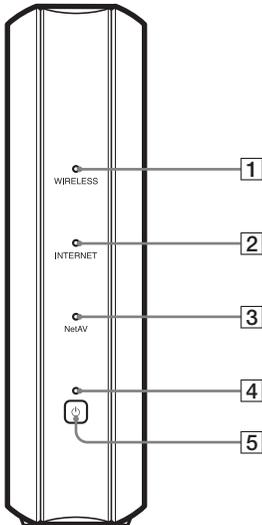
**Notes**

- The holes on parts of the monitor are not for attaching a carrying strap. Do not pass a string or other cord through them by which to hang the monitor.
- Don't cover the rear vent for a prolonged time while using the monitor. Doing so may cause the surface of the product to increase in temperature.
- Avoid touching hot areas of the surface of the product for long periods, especially if you have sensitive skin. Doing so may cause swellings or blisters as symptoms of moderate temperature burn.

# Base Station

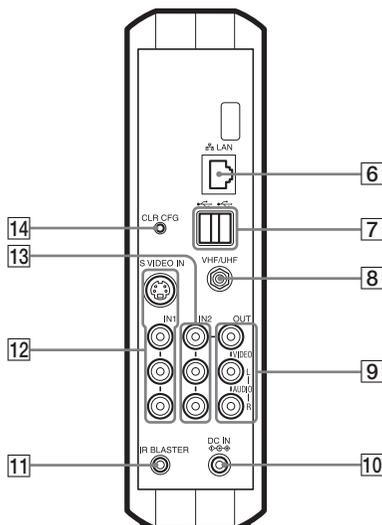
The base station specifications are common to the LF-X1 and LF-X5.

## Front



- 1** WIRELESS indicator  
Indicates the wireless function status.  
Blue lit: Connected with the monitor on the 5 GHz channel.  
Green lit: Connected with the monitor on the 2.4 GHz channel.  
Blue or green blinking (3 sec. intervals): Attempting to connect with the monitor. The wireless function is active but out of range.
- 2** INTERNET indicator  
Indicates the connection status to an external network, such as the Internet.  
Green blinking: Attempting to connect.  
Green lit: Connected to the network. The indicator blinks when packets are transmitted.  
Off: Not connected.
- 3** NetAV indicator  
Indicates the NetAV connection status.  
Green quick blinking: NetAV authentication has failed.  
Green slow blinking: Attempting to connect with NetAV.  
Green lit: Connected with NetAV.  
Off: Not connected.  
Red lit: The base station is being initialized. Also turns red when Dynamic DNS client settings fail.
- 4** POWER indicator (☞ page 26)  
Green lit: The power is on.  
Red flashing: A malfunction has occurred.
- 5** POWER switch (☞ page 26)  
Turns the base station power on and off.
- 6** LAN port (☞ page 37)  
Connect a LAN cable.

## Rear



- 7** USB port
- 8** VHF/UHF jack (☞ page 20)  
Connect an antenna cable.
- 9** VIDEO OUTPUT (AUDIO/VIDEO) terminal (☞ page 22)  
Outputs audio/video signal input to the video input 2 terminal.  
Connect audio and video cables.
- 10** DC IN jack (☞ page 23)  
Connect the AC power adapter for the base station (supplied).
- 11** IR BLASTER port (☞ page 33)  
Connect the IR Blaster (supplied).
- 12** IN 1 (S-VIDEO/AUDIO/VIDEO) terminal (☞ page 21)  
Connect audio cables and either a video or S-video cable.
- 13** IN 2 (AUDIO/VIDEO) terminal (☞ page 21)  
Connect audio and video cables.
- 14** CLR CFG button (☞ page 135)  
Returns all settings on the base station, including line and wireless connection settings, to the factory defaults.

## Checking the Package Contents

After unpacking, check that all the following items have been included:

### ◆For LF-X1

- Base station (1)
- Monitor (1)
- Stylus (1)
- BP-LX1A battery (1)
- AC-LX1B AC power adapter for the base station (1)
- AC-LX1M AC power adapter for the monitor (1)
- IR Blaster (1)
- Power cord (2)
- Operating instructions (1)
- Quick Start Guide (1)
- Base station stand (1)
- Important software notice (1)
- Ferrite core (for External Keyboard)

### ◆For LF-X5

- Base station (1)
- Monitor (1)
- Stylus (1)
- BP-LX5A battery (1)
- BP-LX5B battery (1)
- AC-LX1B AC power adapter for the base station (1)
- AC-LX5M AC power adapter for the monitor (1)
- IR Blaster (1)
- Power cord (2)
- Carrying case (1)
- Operating instructions (1)
- Quick Start Guide (1)
- Base station stand (1)
- Important software notice (1)

#### Note

Be sure to turn off the monitor power when putting the monitor in the carrying case.





# Setup and Connections

## ●●● **BASIC: Installing and Connecting** ●●●

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| Setting Up Mail .....                    | page 43 |

## ●●● **BASIC: Guide to On-screen Icons** ●●●

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| Guide to On-screen Icons..... | page 45 |
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●●● **ADVANCE: Selecting a Connection Type for the Monitor** ●●●

Wireless Connection at Home ..... page 47  
Wired LAN Connection at Home ..... page 48  
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Wireless Connection On the Go ..... page 49  
About Wireless Security ..... page 51

●●● **ADVANCE: Watching A/V via Home-Wired LAN** ●●●

Enable Wired LAN ..... page 53  
Setting Up the Monitor ..... page 54

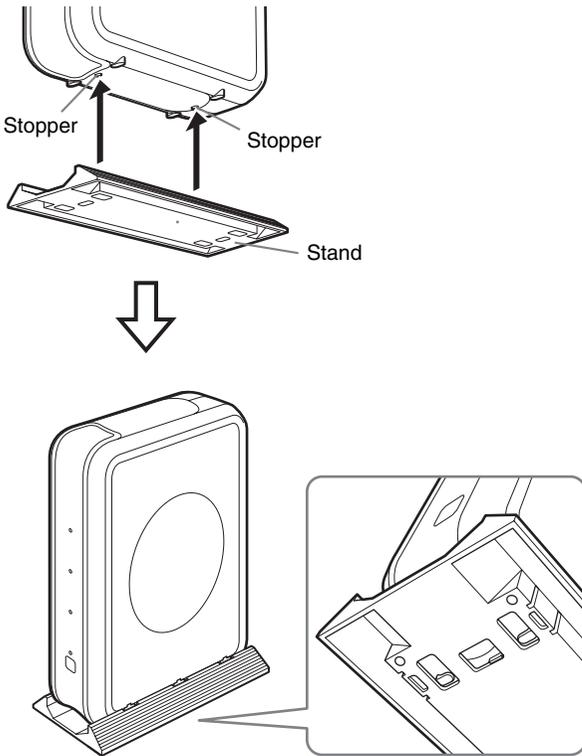
●●● **ADVANCE: Making Use of NetAV** ●●●

What's NetAV ..... page 55  
Connecting with NetAV ..... page 60

# BASIC: Installing and Connecting

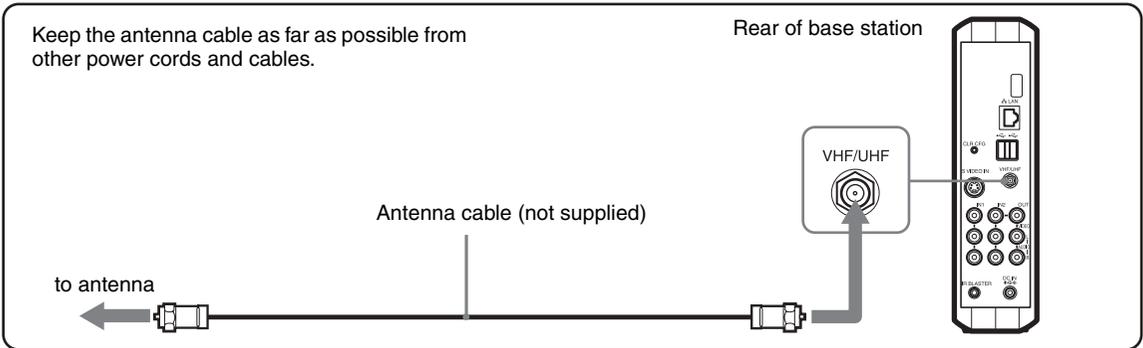
## Attaching the Base Station Stand

To keep the base station stable, attach the base station stand.  
 Install the 4 rubber feet and 2 stoppers so they fit in the proper holes on the stand.



# Connecting to a TV Antenna

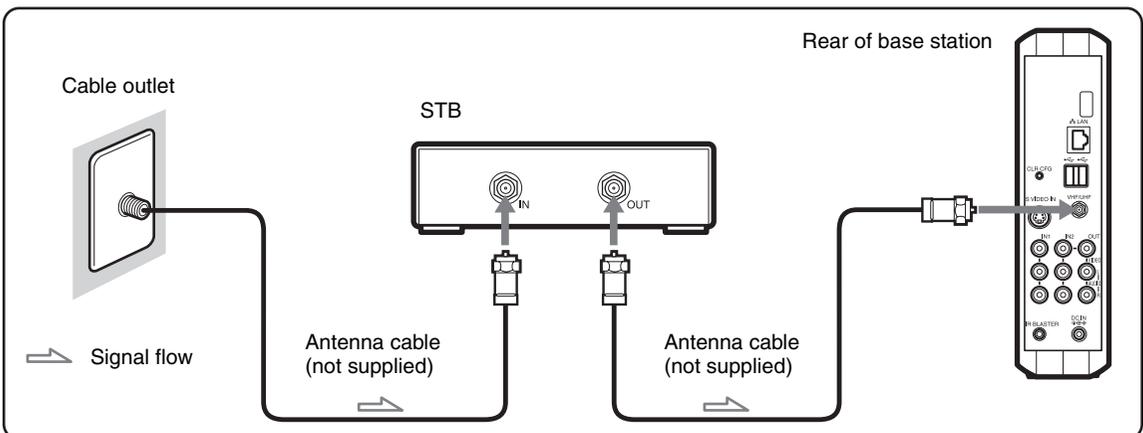
The procedure for connecting to a TV antenna differs depending on the type of antenna jack in your wall. Some antenna jacks require a separate converter or splitter (not supplied). For more information, contact your Sony dealer.



# Connecting to an External TV Tuner (STB)

There are two different procedures for connecting a set-top box (STB), depending on whether the set-top box connects to the antenna cable or to the video input terminal on the base station.

## Connecting to the antenna cable

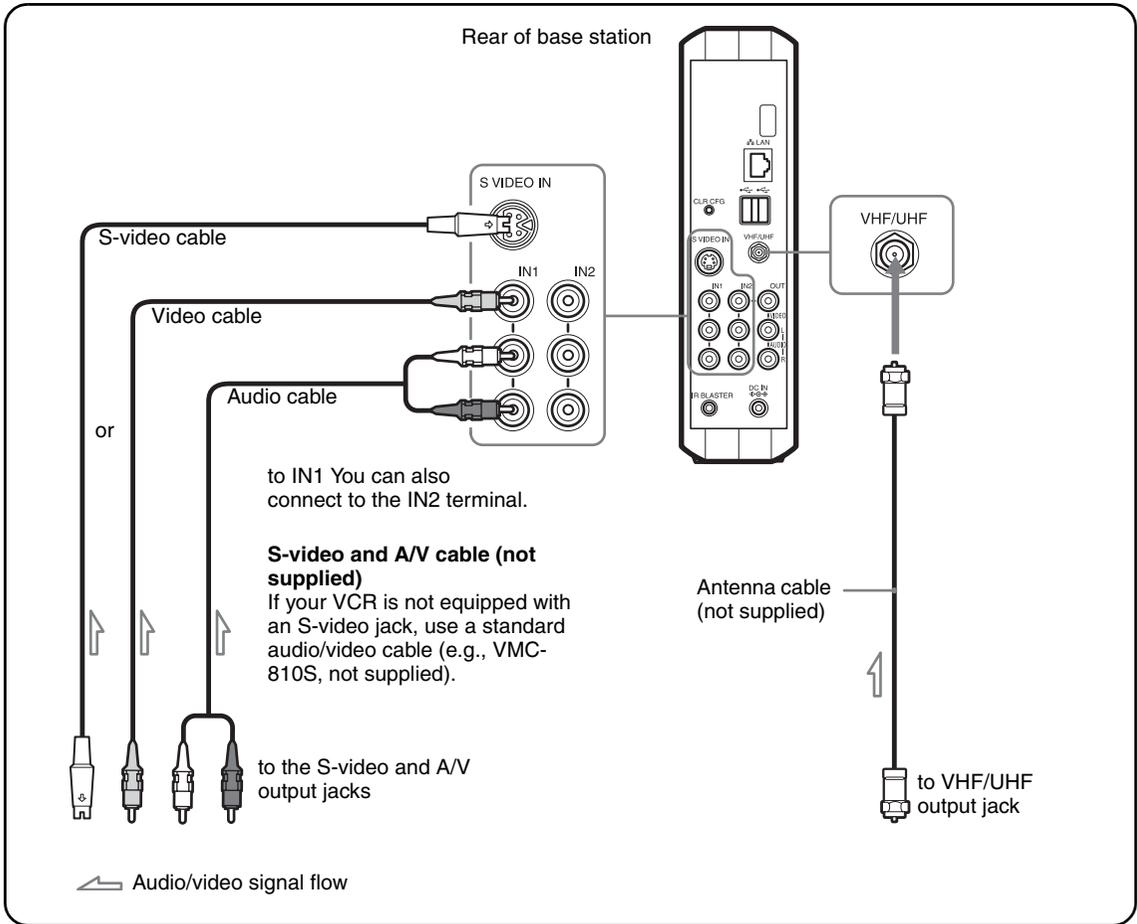


## Connecting to the video input terminal

Refer to “Connecting Other Devices” (📖 page 21).

# Connecting Other Devices

External devices featuring an A/V output terminal - such as a VCR, AV amplifier, DVR, DVD player/recorder, or digital cable - can be connected to the base station. You can also connect a digital video camera or similar device directly to the AV IN jack on the monitor to watch video (LF-X1 only). Refer also to the operating instructions that came with the connected equipment.



## Watching video on a connected device

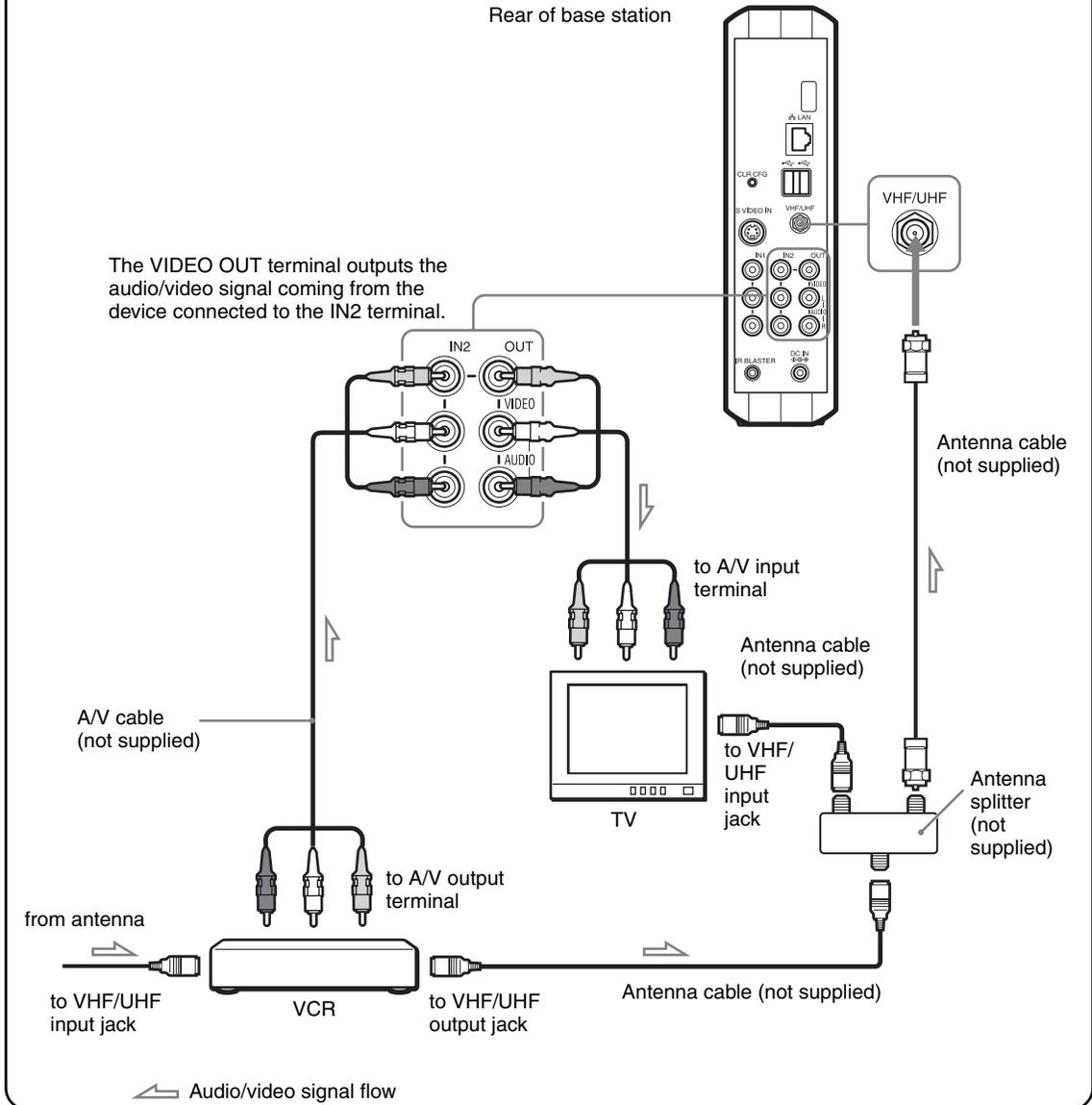
Select [Video 1] in the [Index] window. You can operate the connected device using the on-screen remote control on the monitor. Open the [Index] window, select [Video 1], [Video 2], or [Monitor Video In] (LF-X1 only) according to the input terminal to which the device is connected.

### Note

If you have connected a DVD player to the base station via a VCR, the VCR's copy guard function may distort or dim the DVD picture. Connect the DVD player directly to the video input terminal on the base station.

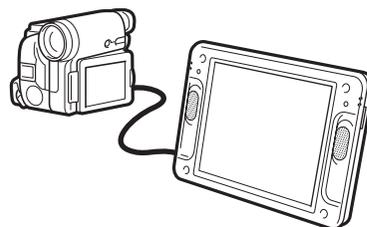
## Using a VCR and TV

Connect the VCR to the VIDEO INPUT 2 terminal on the base station, and then connect the VIDEO OUTPUT terminal on the base station to the A/V input terminal on the TV, as shown below.



## Connecting a Digital Video Camera Directly to the Monitor (LF-X1 Only)

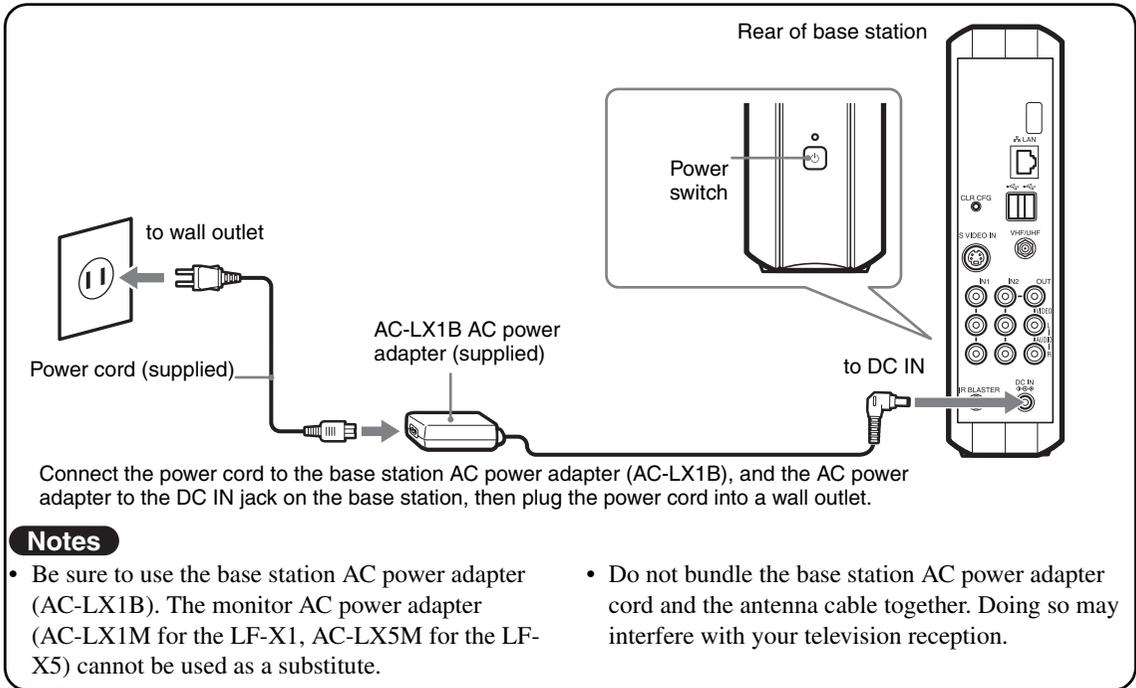
Use a mini AV cable (not supplied: VMC-N320TP, VMC-N120TT) to connect a digital video camera directly to the AV IN jack on the left side of the monitor.



# Turning On the Power

## Connecting the Power Cord to the Base Station

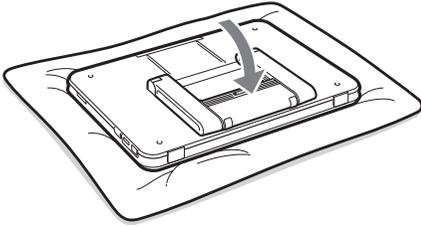
Finish making all other connections before connecting the power cord.



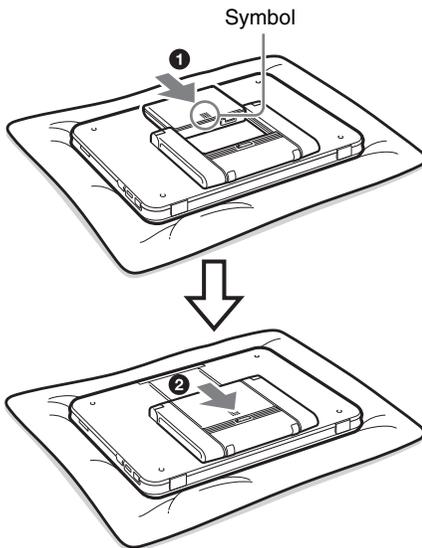
## Inserting the Battery

### ◆For the LF-X1

- 1 Place the monitor on a soft cloth with the LCD screen down.



- 2 From the top of the compartment (1), slide the battery in as far as it will go (2). Keep the monitor stand closed when inserting the battery.

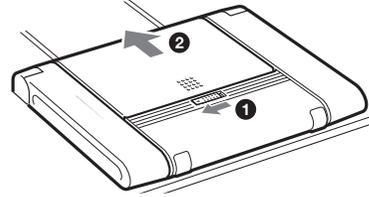


### Notes

- Insert the battery so that the side with the symbol faces upward.
- Insert the battery until you hear it click.

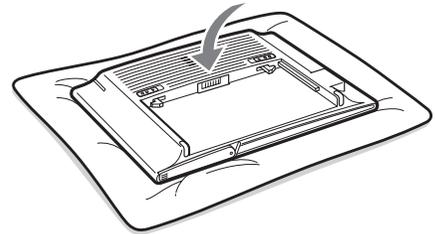
## Removing the battery

Push and hold the tab in the direction of the arrow (1), then slide the battery upward (2).

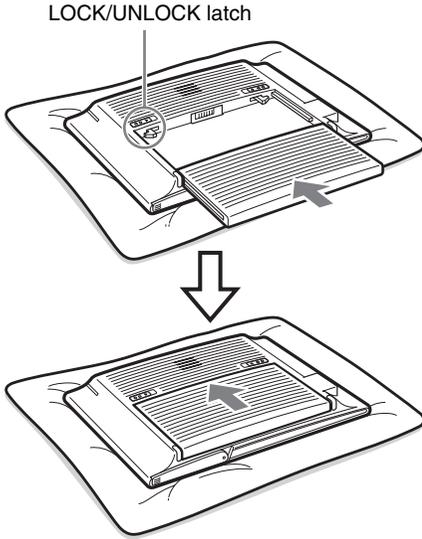


### ◆For the LF-X5

- 1 Place the monitor on a soft cloth with the LCD screen down.

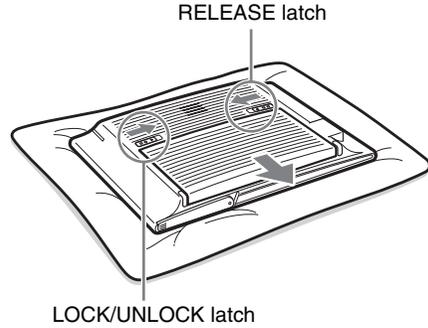


- 2** Slide the LOCK/UNLOCK latch on the back of the monitor to the UNLOCK position. From the bottom of the compartment, slide the battery into the monitor until it clicks into place. Slide the LOCK/UNLOCK latch into the LOCK position.



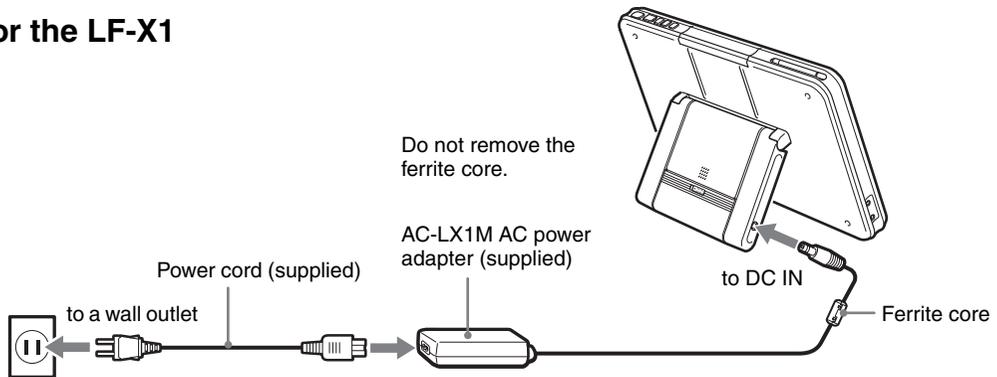
## Removing the battery

Slide the LOCK/UNLOCK latch on the back of the monitor to the UNLOCK position. Push and hold the RELEASE latch. While holding the RELEASE latch, slide the battery away from the monitor.

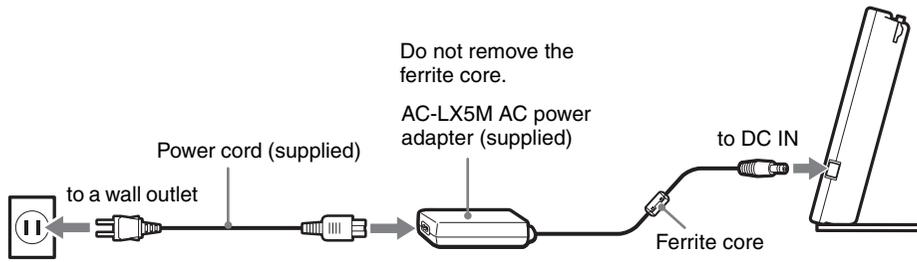


## Connecting the Power Cord to the Monitor

### ◆For the LF-X1

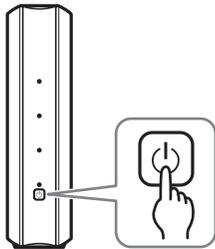


◆For the LF-X5

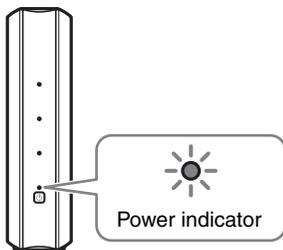


**Turning on the power**

- 1 Press POWER on the front of the base station to turn it on.



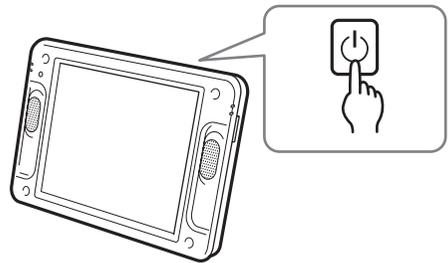
The POWER indicator on the front of the base station lights green.



- 2 Turn on the monitor.

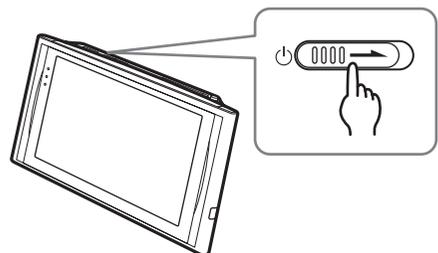
◆For the LF-X1

Press POWER on the top of the monitor to turn it on.



◆For the LF-X5

Slide POWER on top of the monitor to turn it on.



The POWER indicator on the top of the monitor lights green, and the TV picture appears.

**Turning off the monitor power**

For the LF-X1, press POWER again.  
For the LF-X5, slide POWER again.

**Tip**

The TV picture appears soon after you turn on the monitor, but the monitor takes a while longer to finish starting up. If you press INDEX on the top of the monitor or touch the screen, the message “Starting up, please wait...” appears.

**Notes**

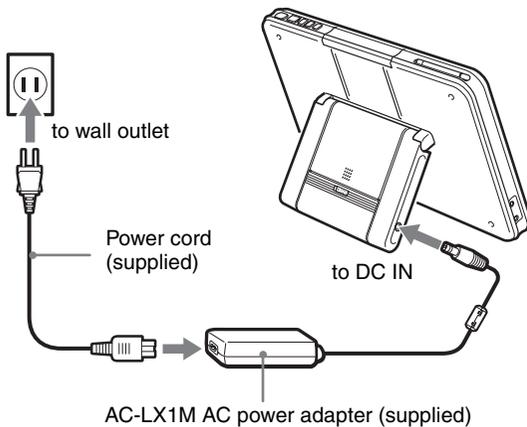
- When using Home-Wireless mode, if no TV picture appears after pressing POWER on the monitor, or if **BASE** appears at the top of the screen, check the base station to make sure the power is turned on.
- For the LF-X5, when the safety function detects that the monitor has reached extreme temperatures, the message [Temperature elevation reached safety limit. Automatically turning off the power.] appears, and the power automatically turns off.

## Charging the Battery

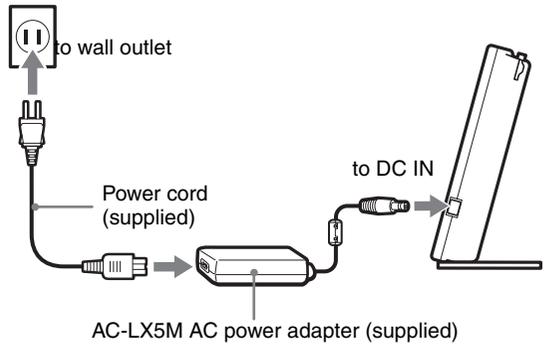
Connect the monitor AC power adapter (AC-LX1M) to charge the battery. You can use the monitor while it is charging. For the LF-X5, you cannot charge the battery while using the monitor.

During charging, the battery charge indicator on the left side of the monitor lights red. The indicator goes off when charging is finished.

**◆For the LF-X1**



**◆For the LF-X5**



## Battery charging time

|       | Charging method                    | Monitor On        | Monitor Off                               |
|-------|------------------------------------|-------------------|---|
| LF-X1 | Monitor AC power adapter (AC-LX1M) | 2.5 hours*        | 2 hours*                                  |
| LF-X5 | Monitor AC power adapter (AC-LX5M) | (Charge disabled) | BP-LX5A: 80 minutes*<br>BP-LX5B: 3 hours* |

\*Times are approximate

## Battery Life

Approximate life of a fully charged battery:

**◆For the LF-X1**

- 4 hours\* at minimum Backlight
- 3 hours\* at medium Backlight
- 1 hour 40 minutes\* at maximum Backlight

**◆For the LF-X5**

- BP-LX5A: 80 minutes\*
- BP-LX5B: 2.5 hours\*

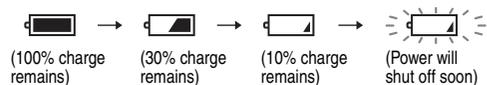
\*Times are approximate.

It is based on continuous television viewing.

Actual battery life may vary based on usage patterns.

A warning appears 1 minute before the battery runs out.

The battery indicator at the top of the screen also shows the remaining battery charge.



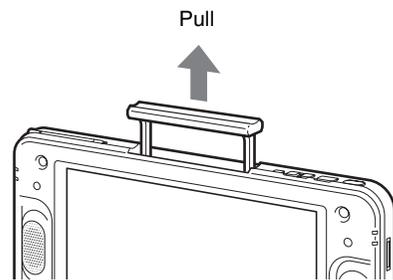
## Notes

- When storing the battery long-term, use up any remaining charge, then remove the battery and store it in a cool place. In addition, fully charge the battery and use up the entire charge at least once a year, before returning the battery to storage.
- Like other rechargeable batteries, the supplied lithium-ion battery gradually loses its ability to charge with repeated use. When battery life decreases significantly, it is time to buy a new battery. The battery can be charged about 300 times before it needs replacement.
- Depending on the type of battery, the battery charge may run out and cause the power to shut off before the  indicator appears.

## Carrying and Positioning the Monitor

### Using the Monitor Handle (LF-X1 Only)

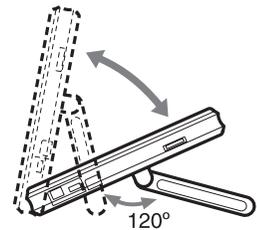
Pull out and use the handle on top when carrying the monitor.



### Adjusting the Monitor Stand

#### ◆For the LF-X1

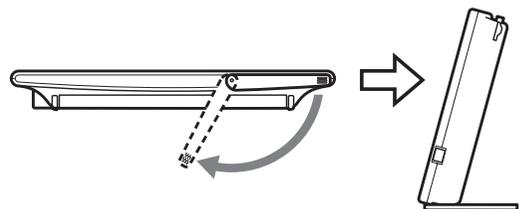
Use the monitor stand to adjust the screen angle, as shown. The stand has a range of 120 degrees.



Under normal lighting conditions.

#### ◆For the LF-X5

Make the monitor upright using the stand on the bottom.

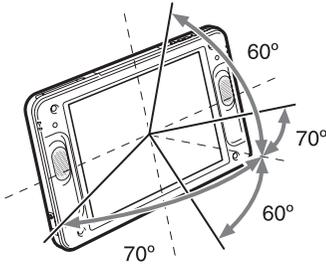


**Note**

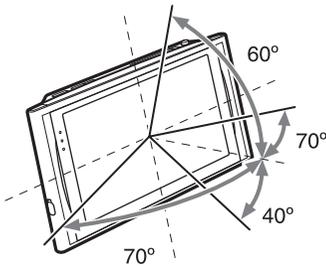
The stand will come off if force is applied. If the stand comes off, reinstall it in the proper position. Be careful not to swallow the stand.

**Adjusting the Viewing Angle****◆For the LF-X1**

The monitor is best viewed within 60 degrees above or below and 70 degrees to the left or right of the center of the screen, as shown.

**◆For the LF-X5**

The monitor is best viewed within 60 degrees above, 40 degrees below, and 70 degrees to the left or right of the center of the screen, as shown.



# BASIC: Basic Setting

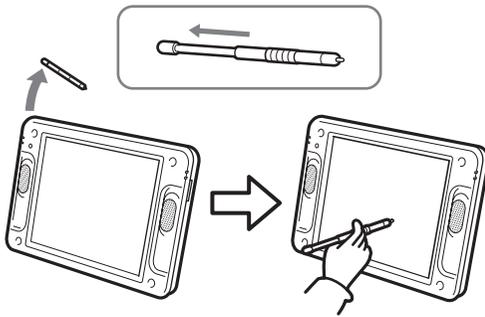
## Setting Up TV Channels

You must first use “Auto Program” to automatically preset channels before you can watch TV. Be sure to automatically preset channels at a location where radio wave conditions are stable.

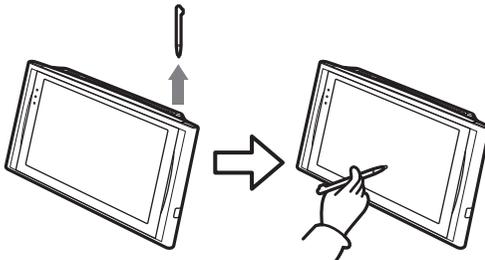
### Auto Program (for the Built-in Tuner)

- 1 Remove the stylus from its compartment, then touch anywhere on the screen with it. You can extend the stylus if you want.

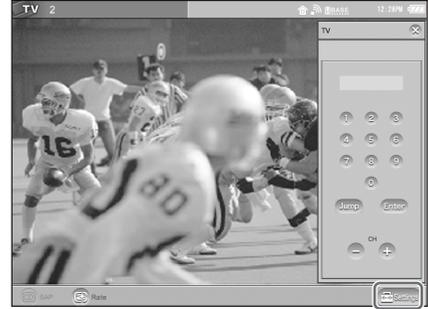
#### ◆For the LF-X1



#### ◆For the LF-X5



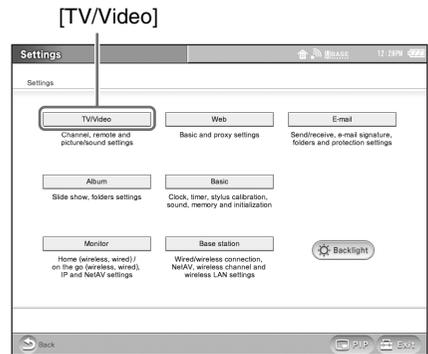
- 2 Select [Settings] at the bottom right of the screen.



[Settings]

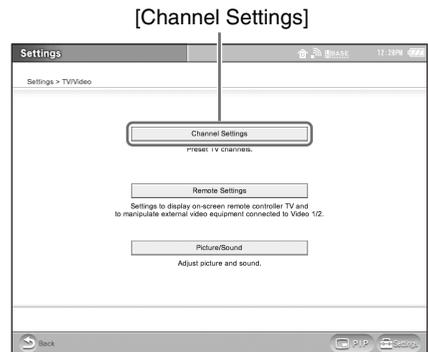
The [Settings] window appears.

- 3 Select [TV/Video].



The [TV/Video] window appears.

- 4 Select [Channel Settings].



The [Channel Settings] window appears.

- 5 For [CABLE], select [ON] or [OFF], then select [Auto Program].



**Note**

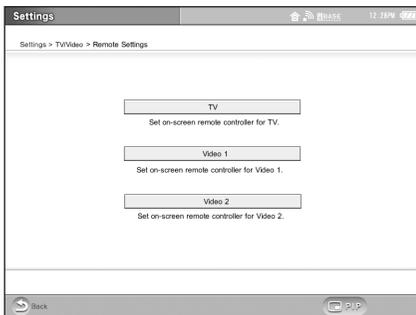
To perform automatic channel set up for cable TV (channels 1 to 125), select [ON] for [CABLE] in step 5. Channel scanning begins. It may take several minutes to complete scanning.

- 6 When scanning ends successfully, the message “Automatic channel scan has finished.” appears. After confirming this message, select [OK].

- 7 Select [Back].  
The [TV/Video] window reappears.

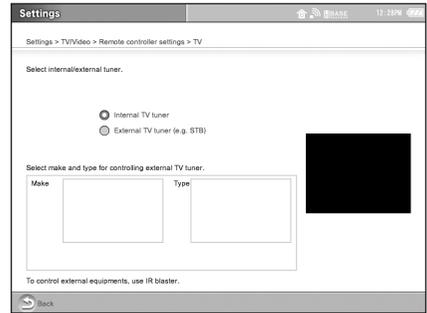
- 8 Select [Remote Settings].  
The [Remote Settings] window appears.

- 9 Select [TV].  
On the [Remote Settings] window, you can configure the on-screen remote control.



The [TV] window appears.

- 10 Select an Internal TV tuner, and then select [Back].



The [Remote Settings] window reappears.

- 11 Select [Back], [Settings], then select [Exit].  
The [TV/Video] window reappears.

- 12 Select [TV] in the [Index] window, then touch anywhere on the screen.  
The on-screen remote control appears.

- 13 Select a TV channel.



[Settings]

The TV channel you selected appears.

**When you are finished...**

- Go to page 37 to set up Internet and e-mail options.
- Start watching TV (page 65).

## Auto Program (for the External TV Tuner)

To connect a device such as a set-top box (STB) using an antenna cable, proceed as follows. Before making the following settings, connect the set-top box to the base station. Also set up and connect the IR Blaster. For more on how to connect to devices, see page 21. For more on how to set up and connect the IR Blaster, see page 33.

1 Open the [Settings] window and select [TV/Video].  
The [TV/Video] window appears.

2 Select [Channel Settings].  
The [Channel Settings] window appears.

3 Select [OFF] under [CABLE], turn on the set-top box, then select [Auto Program].

### Note

If the set-top box is turned off, channels received by the set-top box cannot be preset automatically. Make sure the set-top box is turned on.

4 When channel scanning ends successfully, the message “Automatic channel scan has finished.” appears.

5 Confirm the message, and then select [OK].

6 Select [Back].  
The [TV/Video] window reappears.

7 Select [Settings], then select [Exit].  
A TV program appears.  
Make sure the programs that appear are from the STB and not the internal tuner. Then proceed with the remote control settings.

### Note

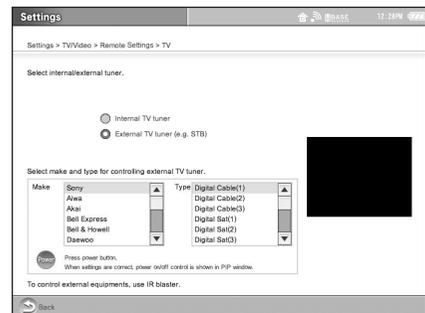
If programs from the STB do not appear at this point, touch the screen and use the on-screen remote to select channel 3 or 4, whichever displays the STB programs.

8 Open the [Settings] window and select [TV/Video].  
The [TV/Video] window appears.

9 Select [Remote].  
The [Remote] window appears.

10 Select [TV].  
On the [Remote Settings] window, you can configure the on-screen remote control.  
The [TV] window appears.

11 Select [External TV tuner], and select the make and type of the connected device, then press [Power].



When the device is configured correctly, you can turn it on and off by selecting [Power]. Use the sub-screen to confirm that the power turns on and off.

If selecting [Power] several times does not turn on and off the connected devices, make sure the make and type you have selected are correct.

### Notes

- Even if the power turns on and off correctly with [Power], other buttons may not be enabled. If this happens, select [Video 1] or [Video 2] from the Index. With the on-screen remote that appears when you touch the screen, confirm that the buttons are enabled by pressing them.

- Some devices may not have a [Power] button (e.g. DVR). In this case, as well, use the on-screen remote to display [Video 1] or [Video 2] and confirm that the buttons are enabled.

.....

**12** Select [Back].  
The [Remote] window reappears.

.....

**13** Select [Back].  
The [TV/Video] window reappears.

.....

**14** Select [Settings], then select [Exit].

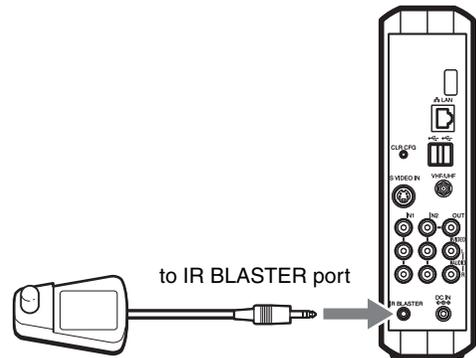
.....

## Using the On-screen Remote Control

Configure the on-screen remote control for external devices connected to the base station using the IR Blaster (supplied). For more on connecting other devices, see “Connecting Other Devices” (🔗 page 21).

## Setting Up and Connecting the IR Blaster

- 1 Connect the IR Blaster to the IR BLASTER port on the base station.

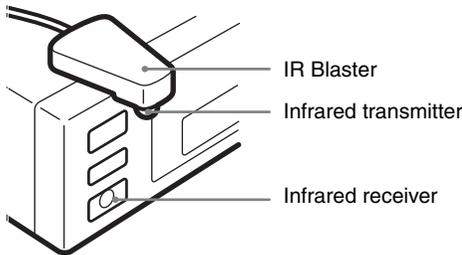


.....

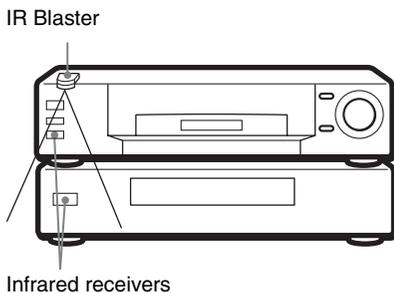
- 2 Position the IR Blaster above the infrared receiver on the external device. To locate the infrared receiver, see the operating instructions for the connected device. Make sure to place the IR Blaster just above the infrared receiver.

### Note

Do not remove the backing paper from the IR Blaster yet.



When controlling two devices with the IR Blaster, position the devices and the IR Blaster as shown.



If the infrared receivers on two devices do not line up and cannot be controlled with the single supplied IR Blaster, you need to purchase a plug adapter (not supplied) and another IR Blaster. Connect the plug adapter to the IR BLASTER port on the base station and connect each IR Blaster to a port on the adapter plug.

### Tips

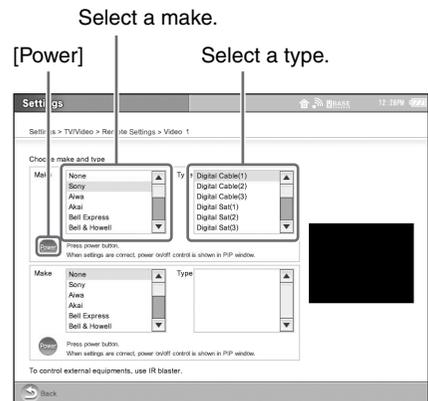
- If the IR Blaster cable is too short, use the extension cable (RK-G138, not supplied).
- Infrared receivers on Sony VCRs and other products are identified with the  symbol.

- 3 Open the [Settings] window and select [TV/Video]. The [TV/Video] window appears.

- 4 Select [Remote Settings]. The [Remote Settings] window appears.

- 5 Select [Video 1] or [Video 2] according to the input terminal to which the device is connected. The [Video 1] or [Video 2] window appears.

- 6 From the list in the upper part of the window, select the make and type of the connected device, then select [Power]. When you select a make, various types for that make are displayed.



When the device is configured correctly, you can turn it on and off by selecting [Power]. Use the sub-screen to confirm that the power turns on and off.

If selecting [Power] several times does not turn on and off the connected device, make sure the make and type you have selected are correct.

### Notes

- Even if the power turns on and off correctly with [Power], other buttons may not be enabled. If this happens, select [Video 1] or [Video 2] from the Index. With the on-screen remote that appears when you touch the screen, confirm that the buttons are enabled by pressing them.
- Some devices may not have a [Power] button (e.g. DVR). In this case, as well, use the on-screen remote to display [Video 1] or [Video 2] and confirm that the buttons are enabled.

**Connecting two devices to a single input terminal**

Set the device directly connected to the unit as the first device.

**When connecting an all-in-one device (e.g., a VCR+DVD player)**

The second remote control is automatically set when you select a device displayed as all-in-one device from the [Type] list (e.g., Sony “VCR+DVD Player”). Touch the [Switch] button on the on-screen remote control to switch between the remote control for the VCR and the remote control for the DVD player.

7 Select [Back].  
The [Remote] window reappears.

8 Select [Back] or [Exit].  
The [TV/Video] window reappears.

9 Select [Settings], then select [Exit].

10 Open the [Index] window.  
[Video 1] or [Video 2] in the window is now replaced with the type name of the selected on-screen remote control.  
Example: When you have set the remote control for a DVD player to [Video 1], [Video 1] is replaced with [DVD Player].

11 Select the type of the on-screen remote control.  
The remote control appears at the right side of the screen, so that you can control the connected equipment.

**Tip**

You can change channels by sliding the stylus across the screen from left to right or right to left, if the connected equipment contains a tuner, such as cable TV set-top box. For more information, see “Watching TV and Video” (page 65).

12 After checking that the connected devices operate properly, remove the backing paper from the IR Blaster.



13 Secure the IR Blaster in the location you determined in step 2 (page 33).

**Setting up multiple external devices**

First, connect the devices you want to use.

1 Follow steps 3 to 6 in “Setting Up and Connecting the IR Blaster” (page 33) to configure the first device.

2 Select the make and type of the second device (the one connected via the first device) from the [Make] list in the lower part of the window. Make sure you can turn the device on and off.

3 Secure each IR Blaster in the location you determined in step 2 (page 33).

## Notes

- Operate the on-screen remote control in the same way as the remote control supplied with the connected device. You cannot operate buttons with the on-screen remote control that are not supported by the actual remote control.
- The button names on the on-screen remote control do not exactly match those on the actual remote control.
- When using the remote control for all-in-one devices, selecting the [Switch] button changes simultaneously changes the on-screen remote control and picture. However, if the new picture does not match the displayed remote control, press  to change pictures.
- If you press the DVR [Rec] button, the message “Start recording? When recording is in progress, pressing OK may terminate current recording.” appears. This message appears when you press the [Rec] button to stop recording.
- Even if the digital cable does not have a [Rec] button, pressing the [Rec] button on the on-screen remote control displays the message “Start recording? When recording is in progress, pressing OK may terminate current recording.”

# Connecting to the Internet

To browse the web and use mail, you must first connect the LocationFreeTV to the Internet. The LocationFreeTV can be connected to the Internet through a cable TV line, or DSL line.

## Necessary Equipment

Use the following table to determine the equipment and cables you need for your type of Internet connection. After preparing the necessary items, go to the page number listed for your connection type and follow the example to complete the connection.

| Internet connection type                  | Necessary equipment    | Necessary cables | For connection example, see |
|---|------------------------|------------------|-----------------------------|
| Cable connection<br>(Cable TV line)       | Cable modem            | LAN cable        | pages 38 and 39             |
| DSL connection<br>(Analog telephone line) | DSL modem and splitter | LAN cable        | pages 38 and 39             |

- \* To access the Internet, you also need to contract with an Internet service provider (ISP).
- \* DSL modems that connect via a USB interface are not supported.

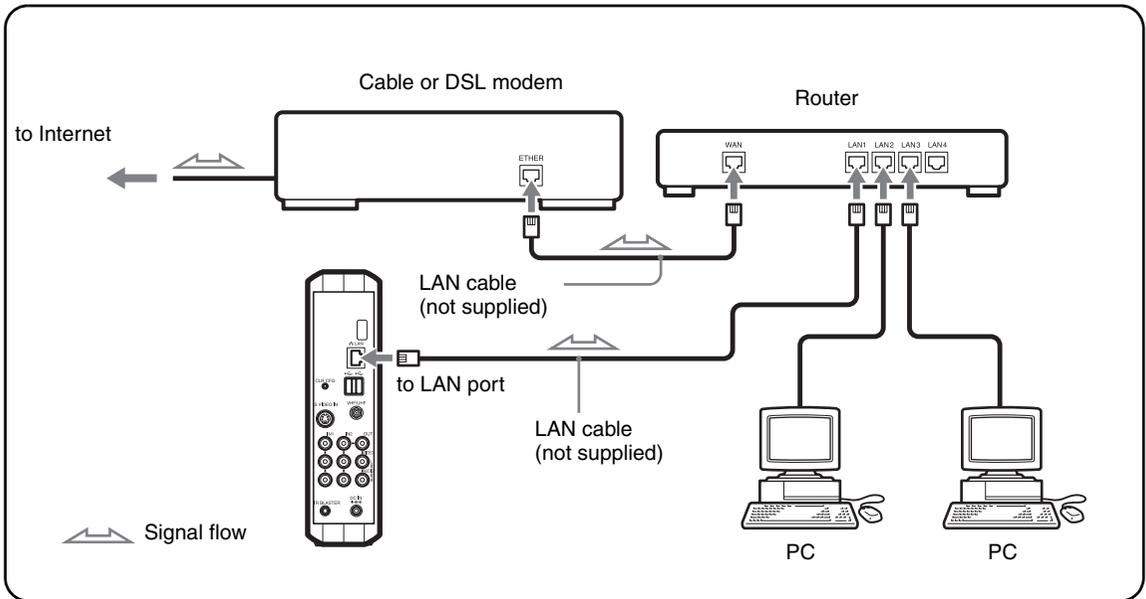
**Note**

You cannot connect the LocationFreeTV to the Internet if your ISP

- prevents devices other than computers from connecting to the Internet.
- requires you to install special software on devices connecting to the Internet.
- requires you to configure settings that are not available on the LocationFreeTV.



• **Connecting several devices to a modem with a router**



- Depending on your Internet service contract, you may not be able to connect the LocationFreeTV with multiple devices, such as several other computers. For more information, contact your cable TV company, DSL network administrator, or ISP.
- To determine what kind of LAN cable to use, see the operating instructions for your router, cable modem, or DSL modem.
- For details on setting up the connection, also refer to the operating instructions for your router, cable modem, or DSL modem.

**What is a router?**

A router is a piece of equipment that relays signals between networks. Using a router allows several devices to share one Internet connection. See page 40 for more on how to configure router settings.

• **Configuring router settings**

- If the operating instructions for your router direct you to use a web browser (Internet Explorer or Netscape Navigator) to access the router's settings screen, you can do so by inputting the router's IP address in the address field on the Web window (☞ page 74). You must also configure network settings for the LocationFreeTV (☞ page 40).
- For more information on configuring router settings, refer to the operating instructions for your router.
- The settings for some routers may not be configured from the Internet screen. In this case, make settings using your computer.

# Configuring Network Settings

Refer to the documents provided by your ISP when configuring network settings.

## Before Configuring Network Settings

Check that:

- The base station power is turned on.
- Have you established wireless communication between the base station and the monitor in Home mode?
- The LAN cable is connected to the base station (when connecting via LAN).

## Connecting via LAN (DHCP)

With this type of Internet connection a DHCP server automatically assigns the IP address, subnet mask, and default gateway.

### Note

Be sure to make the setting in a location where wireless communication is possible.

### Tip

Follow the steps below to connect to the Internet when using a router.

1 Press INDEX on the top of the monitor.  
The [Index] window appears.

2 Select [Web].  
The Internet connection is established when the LocationFreeTV web page appears.  
(This web page is set as the default homepage.)

## If an error message “Cannot connect to the web server.” appears

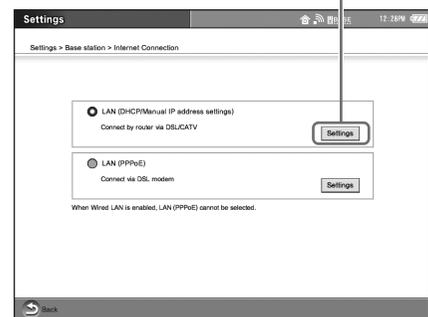
Go on to step 3 and verify the DHCP connection settings.

3 Select [Settings] at the bottom right of the screen.  
The [Settings] window appears.

4 Select [Base station].  
The [Base station] window appears.

5 Select [Internet Connection].  
The [Internet Connection] window appears.

6 Select the [Settings] button to the right of [LAN (DHCP/Manual IP address Settings)].  
LAN (DHCP/Manual IP address setting)



The [LAN (DHCP/Manual IP address Settings)] window appears.

Check that values have been automatically assigned for the IP address, subnet mask, and default gateway.

### Tip

Depending on your ISP, you may need to input a Host Name.

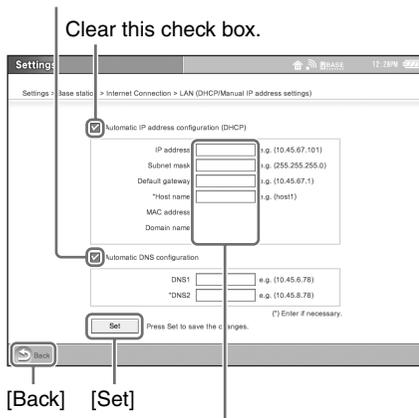
7 Select [Back].  
The [Internet Connection] window reappears.

## Connecting via LAN (Assigning an IP Address Manually)

1 Perform steps 3 through 6 of “Connecting via LAN (DHCP)” (page 40) to display the [LAN (DHCP/Manual IP address Settings)] window.

2 Clear the check box next to [Automatic DNS configuration], and input the proper value for [DNS1] and [DNS2].

Clearing the check box for the above items also clears this check box



Refer to the documents provided by your ISP to input the proper values.

### Tips

- You may capture and save the configured setup screen for future reference (page 70).
- For details on character entry, see “Entering Characters” (page 116).

The [Internet Connection] window reappears.

3 Select [LAN (DHCP/Manual IP address setting)].

LAN (DHCP/Manual IP address setting)



A confirmation window appears.

4 Select [OK].  
This sets the configuration for “LAN (DHCP/Manual IP address Settings)”.

5 Select [Back], [Settings], then select [Exit].

### When you are finished...

Connect to the Internet and check that you can open web pages. For details on how to open a web page, see “Viewing Web Pages: Basics” (page 74).

## Connecting Via LAN (PPPoE)

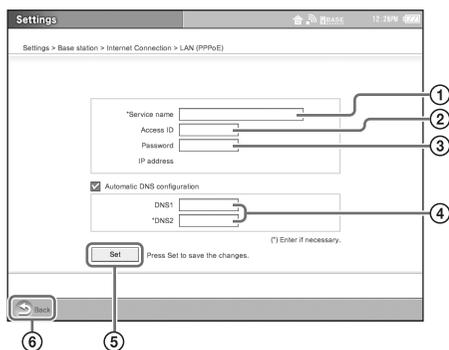
1 Select [Settings] at the bottom right of the screen.  
If [Settings] is not shown, touch anywhere on the screen to make it appear.  
The [Settings] window appears.

2 Select [Base station].  
The [Base station] window appears.

3 Select [Internet Connection].  
The [Internet Connection] window appears.

4 Select the [Settings] button to the right of [LAN (PPPoE)].  
The [LAN (PPPoE)] window appears.

5 Input the proper values for each item, and select [Set], then select [Back].



- ① Internet service provider (ISP) name  
This is used to identify your ISP. Most ISPs do not require this entry. Enter the name only when required by your ISP.
- ② Access ID\*<sup>1</sup>  
This is used to verify that the user has authorization to connect to the Internet.
- ③ Internet connection password\*<sup>2</sup>  
This is used to verify that the user has authorization to connect to the Internet. For security, password characters are shown as asterisks.
- ④ DNS1\*<sup>3</sup> and DNS2\*<sup>4</sup> parameters  
Enter the DNS addresses specified by your ISP. If you select the check box next to [Automatic DNS configuration], the addresses are automatically acquired. Note that some ISPs do not allow addresses to be acquired automatically.

**Tip**

To input the DNS address manually, clear the check box next to [Automatic DNS configuration], input values for [DNS1] and [DNS2], and then select [Set].

- ⑤ [Set] button
- ⑥ [Back] button

The following terms may differ depending on your ISP. For more information, see the documents supplied by your ISP.

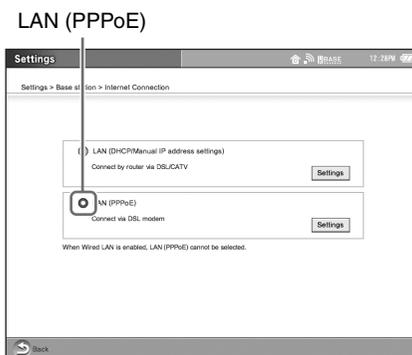
- \*1 Connection ID is also known as user ID, PPP login name, network ID, connection login name, account name, logon name, login ID, or connection account.
- \*2 Password is also known as PPP password, network password, connection password, or login password.
- \*3 DNS1 is also known as primary DNS server, primary name server, or domain name server.
- \*4 DNS2 is also known as secondary DNS server, secondary name server, or domain name server.

The [Internet Connection] window reappears.

**Tips**

- For details on character entry, see “Entering Characters” (☞ page 116).
- You may capture and save the configured setup screen for future reference (☞ page 70).

6 Select [LAN (PPPoE)].



A confirmation window appears.

**Note**

PPPoE connections are not guaranteed for all DSL providers.

7 Select [OK].  
This sets the configuration for “LAN (PPPoE)”.

8 Select [Back], [Settings], then select [Exit].

### When you are finished...

Connect to the Internet and check that you can open web pages. For directions on how to open a web page, see “Viewing Web Pages: Basics” (page 74).

## Setting Up Mail

To send and receive mail, you must configure the LocationFreeTV to access your mail account. Refer to the documents provided by your ISP when configuring mail settings.

### Tip

The LocationFreeTV can only be programmed to access one mail account.

1 Select [Settings] at the bottom right of the screen.

If [Settings] is not shown, touch anywhere on the screen to make it appear. The [Settings] window appears.

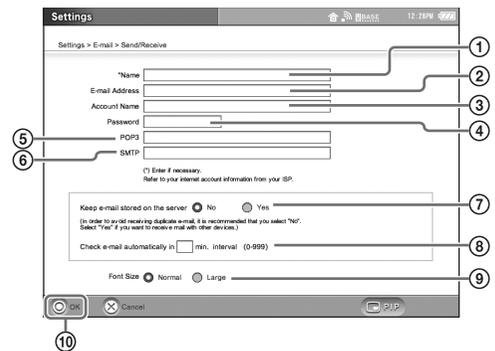
2 Select [E-mail].

The [E-mail] window appears.

3 Select [Send/Receive].

The [Send/Receive] window appears.

4 Input the proper values for each item, then select [OK].



1 Name  
Enter the name you want to appear as the sender’s name on your outgoing mail. Symbols cannot be used.

2 E-mail Address  
Enter the mail address you want to appear as the sender’s address on your outgoing mail.

- ③ **Account Name** \*<sup>1</sup>  
This is used to verify that the user has authorization to access the mail account.
- ④ **Password** \*<sup>2</sup>  
This is used to verify that the user has authorization to access the mail account. For security, password characters are shown as asterisks.
- ⑤ **POP3** \*<sup>3</sup>  
Specify the server from which to receive mail.
- ⑥ **SMTP** \*<sup>4</sup>  
Specify the server from which to send mail.
- ⑦ **Keep e-mail stored on the server**  
Usually select [No]. Select [Yes] if you want the mail you receive on the LocationFreeTV to be available later on another device (e.g., computer). If you select [Yes], you will repeatedly receive the same mail. The factory preset is [No].
- ⑧ **Check e-mail automatically**  
Specify how often (from 0 to 999 minutes) the LocationFreeTV should check for new mail. If you select 0 minutes, the LocationFreeTV will not check for new mail. This setting is not available for the LF-X5.
- ⑨ **Font Size**  
Select the size at which mail text appears on the screen.
- ⑩ **[OK] button**

 **Tips**

- For details on character entry, see “Entering Characters” (☞ page 116).
- You may capture and save the configured setup screen for future reference (☞ page 70).

The following terms may differ depending on your ISP. For more information, see the documents supplied by your ISP Or consult your ISP.

\*<sup>1</sup> Mail account is also known as user name, POP account, mail server login name, mail login name, POP server account, or POP server login name.  
 \*<sup>2</sup> Mail password is also known as mail server password.  
 \*<sup>3</sup> POP3 server is also known as POP server or mail receiving server.  
 \*<sup>4</sup> SMTP server is also known as mail sending server.

The [E-mail] window reappears.

.....  
**5** Select [Settings], then select [Exit].  
 .....

**When you are finished...**

Check that you can send and receive mail. See “Composing Mail” (☞ page 89) and “Reading Mail” (☞ page 93).  
 No special settings are necessary for using the LocationFreeTV at home. It is ready for use.

# BASIC: Guide to On-screen Icons

No special settings are necessary for using the Location Free TV at home. It is ready for use.

## Guide to On-screen Icons

The following icons appear at the top of the screen to indicate the connection status of the LocationFreeTV.

Example: A wireless connection is established at home.



| Icon  | Meaning   |
|---|---|
|    | Home mode is selected for the monitor setting.  |
|  | On the go mode is selected for the monitor setting.   |
|  | Wireless is selected for the monitor setting.   |
|  | Not yet connected to the network, such as when the monitor is unable to connect to the network or IP address acquisition from the DHCP server is in progress.   |
|  | Wired LAN is selected for the monitor setting.  |
|  | Not yet connected to the network, such as when the monitor is unable to connect to the network or IP address acquisition from the DHCP server is in progress.   |
|  | Displayed when connected to the base station by Wireless Home mode or Wired LAN in Home mode. With this icon shown on the monitor, TV programs are displayed correctly.   |
|  | Not connected with the base station. (Out of range.)  |
|  | Connected with NetAV  |
|  | Another monitor bound to the base station is connected with NetAV. (The monitor is communicating with the base station, but because another monitor is connected with NetAV, TV is not available. Select the [GetAV] button to watch TV.) |

**Example 1) When Wireless is selected in  
On the go mode**



**Example 2) When Wired LAN is selected in  
Home mode**



# ADVANCE: Selecting a Connection Type for the Monitor

This section describes the settings you need to configure in order to use the monitor at a location away from home, such as a public wireless access like a hotel or cafe.

You can set the monitor to connect directly with the base station in your home, to connect to the base station while away from home, and to communicate wirelessly or via wired LAN. “Home mode” describes the monitor when connected with the base station while inside your home. Using the monitor away from home is called “On the go mode”. In each of these modes, the monitor can communicate wirelessly or via wired LAN.



**Tip**

The on-screen icons change as follows depending on the current settings and connection status.

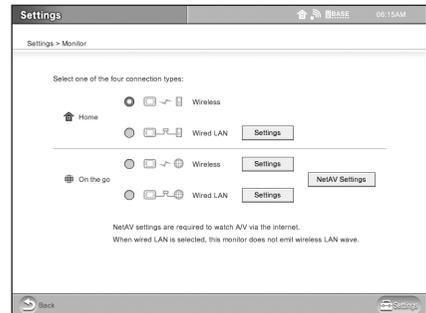
## Wireless Connection at Home

.....

- 1 Open the [Settings] window and select [Monitor].  
The [Monitor] window appears.

.....

- 2 Select [Wireless] under [Home].



.....

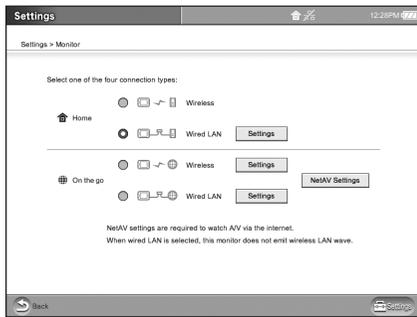
- 3 Select [Back].  
The connection mode is changed.

.....

# Wired LAN Connection at Home

- 1 Open the [Settings] window and select [Monitor].  
The [Monitor] window appears.

- 2 Select [Wired LAN] under [Home].



- 3 Select [Back].  
The connection mode is changed.

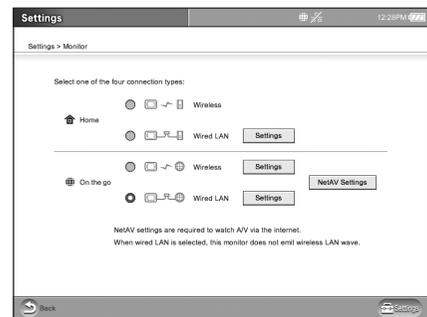
## Note

For more on how to set [Wired LAN] under [Home], refer to page 53.

# Wired LAN Connection On the Go

- 1 Open the [Settings] window and select [Monitor].  
The [Monitor] window appears.

- 2 Select [Wired LAN] under [On the go].



- 3 Select [Back].  
The connection mode is changed.

## Note

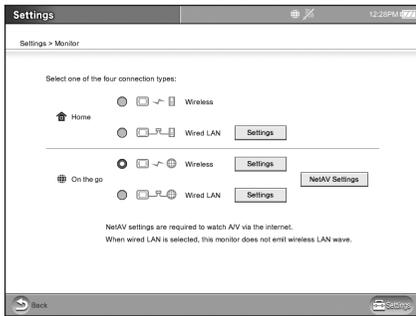
For more on setting the IP address in [Wired LAN] under [On the go], refer to “Setting Up the Monitor” on page 54. In that case, however, step 2 should read “Select [Settings] to the right of [On the go - Wired LAN].”

Also, for more on settings necessary for watching TV, refer to “Setting Up NetAV” on page 56.

# Wireless Connection On the Go

**1** Open the [Settings] window and select [Monitor].  
The [Monitor] window appears.

**2** Select [Wireless] under [On the go].



**3** Select [Back].  
The connection mode is changed.

**Note**

For more on setting the IP address in [Wireless] under [On the go], refer to “Setting Up the Monitor” on page 54. In that case, however, step 2 should read “Select [Settings] to the right of [Wireless] under [On the go].” Also, for more on settings necessary for watching TV, refer to “Setting Up NetAV” on page 56. The settings under “Setting Up to Use Public Wireless Access” on this page are also necessary.

# Setting Up to Use Public Wireless Access

Follow the steps below to configure the monitor so it can use public wireless access at cafes, bookstores, and other locations around town. For convenience, you can save the configuration of public wireless access you visit frequently. The following is an example of how to establish a connection. The actual connection method differs depending on the public wireless access provider. For details, refer to the instruction manual provided by your public wireless access provider.

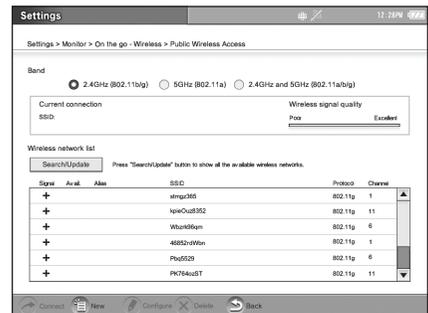
**1** Open the [Settings] window and select [Monitor].  
The [Monitor] window appears.

**2** Select [Settings] to the right of [Wireless] under [On the go].  
The [On the go-Wireless] window appears.

**3** Select [Public Wireless Access].  
The [Public Wireless Access] window appears.  
A short while after the [Public Wireless Access] window appears, a list of detected access points is displayed.

**Note**

When the monitor is not set to [On the go-Wireless], you cannot select [Public Wireless Access].



**Tip**

You can also update the wireless network list by selecting [Search/Update].

## Notes

- The LocationFreeTV does not support the IBSS mode or the adhoc mode.
- Be aware that if the LocationFreeTV is not set to encrypt transferred data, there is a danger that data can be electronically intercepted.

LocationFreeTV can operate in the 5120-5250 MHz frequency band (the channels are 36,40,44,48). It is limited by the FCC, Industry Canada and some other countries to indoor use only.

- .....
- 4** You can connect to networks with a plus (+) symbol under [Signal], but the procedure differs under the following conditions.

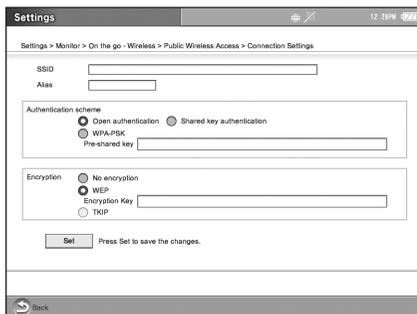
When connecting to a network for the first time:  
Choose the network you want to connect to from the list and select [Configure]. Proceed to step 5.

When connecting to a network you have connected to before:  
A plus (+) symbol appears under [Avail.] on the list. Select the network from the list and proceed to step 8.

### Tip

To connect to a stealth SSID public wireless access, select [New].

- .....
- 5** Refer to documents about the public wireless access to configure the necessary items, select [Set], and then select [Back].



- ① SSID**  
Enter the SSID (network name) of the public wireless access you want to connect to.

An SSID is used to identify a wireless network.

- ② Alias**  
If necessary, set an Alias.  
Enter a nickname for the public wireless access. The alias can be up to 8 characters.
- ③ Authentication scheme**  
Configure the authentication scheme needed to connect to the public wireless access. Refer to documents about the public wireless access to configure this setting.
- ④ Encryption**  
Configure these items when the public wireless access is set for encryption. Refer to documents about the public wireless access to configure these settings.

### Tip

Many locations that offer public wireless access use “No Encryption” access points. In that case, select “No Encryption”.

### WEP:

Enter a character string as an encryption key. The encryption key length differs, however, for different encryption strengths. See the table below.

|                          | 40 bit/64 bit                 | 104 bit/128 bit               |
|--------------------------|-------------------------------|-------------------------------|
| Key length (Numeric)     | 5 characters (0-9)            | 13 characters (0-9)           |
| Key length (Hexidecimal) | 10 characters (0-9, A-F, a-f) | 26 characters (0-9, A-F, a-f) |

### WPA-PSK:

For WPA-PSK, enter a key that is between 8 and 64 characters long. Only hexadecimal keys can use all the following characters: 0-9, a-f, A-F.

- .....
- 6** If you changes the setting value in step 5, press the [Set] button.

- .....
- 7** Select the [Back] button.  
The [Public Wireless Access] window reappears.

- 8 Verify that the network you want to connect to is selected, and select [Connect]. When the connection is complete, the SSID for the current connection appears under [Current connection]. If nothing is continuously displayed in [Current connection], the settings may not be configured correctly. Select [Configure] and verify the settings.

**Notes**

- A plus (+) symbol appears on an access point under [Avail.] once it has been set. You can only connect to access points with a plus (+) symbol under [Avail.]. If you select from this list and still cannot connect, repeat steps 5 through 7.
- There are public wireless access you can connect to with “No Encryption”, but the data you send and receive is unencrypted and may be intercepted. Be sure to take note of this when using the web and e-mail.

# About Wireless Security

Since communication via the wireless LAN function is established by radio waves, the wireless signal may be susceptible to interception. To decrease this danger, the LocationFreeTV supports various security functions. Be sure to correctly configure the security settings in accordance with your intended purpose and network environment.

## Wireless LAN security function of the LocationFreeTV

- No encryption  
Because raw data is transmitted, there is a danger of interception. This setting is not available for wireless LAN communication between the base station and the monitor.
- WEP  
WEP is the wireless LAN security technology specified by IEEE802.11. It applies encryption to communications. There are two types of encryption key length; 64-bit key and 128-bit key. The 128-bit encryption key assures a higher security level. A decryption technique exists, however, so using the same encryption key for an extended period of time is not recommended.
- WPA-PSK with TKIP encryption  
WPA is a security technology developed to correct for the deficiencies of WEP. The LocationFreeTV utilizes WPA together with TKIP encryption. WPA-PSK with TKIP encryption assures the highest security level among the technologies supported by the LocationFreeTV.

## Security settings of the LocationFreeTV

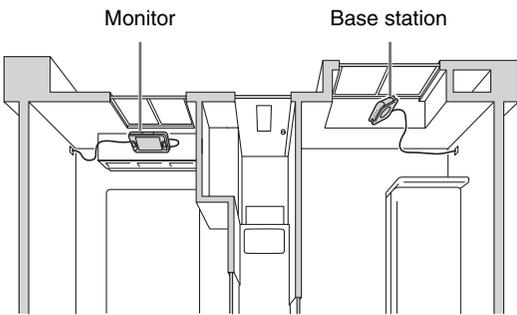
- The security for wireless LAN communication between the base station and the monitor is set to WEP as the factory default. To increase the security level, switch to WPA-PSK. Note, however, that the communication stability may differ depending on which technology you use, WEP or WPA-PSK.

- When connecting the monitor to a wireless LAN environment other than that for communication with the base station, the monitor should be configured in accordance with the security setting of the wireless LAN environment. For settings information, contact the network administrator.

# ADVANCE: Watching A/V via Home-Wired LAN

You can enjoy TV and video with the LocationFreeTV “Home mode” via a wired LAN, as well as via a wireless connection. To use the wired LAN, you need to connect the monitor to the Ethernet port on a wall or on a router with a LAN cable (not supplied).

The wired LAN connection is useful when video stops frequently due to a poor wireless connection and  appears at the top of the screen.



 **Tip**

Different IP addresses must be assigned to the base station and the monitor.

**Note**

You cannot use the wired LAN function when you have connected the base station to the Internet using a PPPoE LAN line or analog phone line.

## Enable Wired LAN

The following settings are not necessary to use ‘web’ or ‘mail’ applications via a Home-Wired LAN. But these settings are necessary to use TV or video over the wired LAN.

Before the settings, you need to select [Home-Wireless] mode on the [Monitor] window to prepare for the base station settings over the wireless connection.

.....

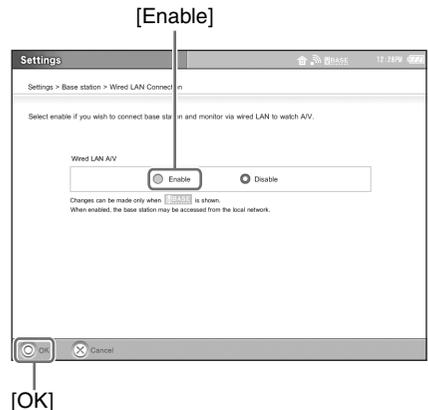
- 1 Open the [Settings] window and select [Base station].  
The [Base station] window appears.

.....

- 2 Select [Wired LAN Connection].  
The [Wired LAN Connection] window appears.

.....

- 3 Select [Enable], then select [OK].



The [Base station] window reappears.

.....

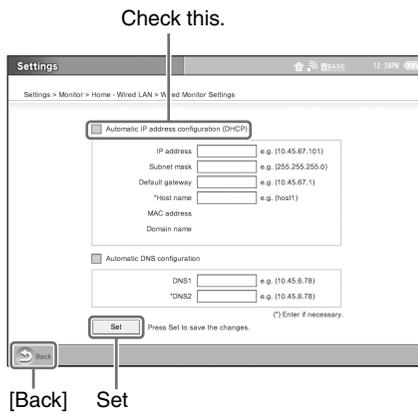
- 4 Select [Settings], then select [Exit].

.....

# Setting Up the Monitor

The IP address is set beforehand to be assigned automatically. To set an IP address manually, follow the steps below.

- 1 Open the [Settings] window and select [Monitor].  
The [Monitor] window appears.
- 2 Select [Settings] to the right of [Home-Wired LAN].  
The [Home-Wired LAN] window appears.
- 3 Enter the necessary information supplied by your Internet Service Provider (ISP) and select [Set].



## Notes

- Enter information provided by your Internet Service Provider (ISP), such as IP addresses, manually. If the information you enter is incorrect, the monitor cannot connect to the Internet.
- Do not enter the same IP address as the base station. If you enter the same IP address, the monitor and base station are unable to communicate and you cannot connect to the Internet or watch TV or video.

- 4 Select [Back].  
The [Monitor] window reappears.

- 5 Select [Wired LAN] under [Home].  
The message “Configuring... Please wait.” appears.  
To watch pictures via wired LAN, go on to the “Base station Address” section.

## Base station Address

The base station IP address must be input correctly to watch TV and video in Home-Wired LAN mode. If you connect to the base station once in Home-Wireless mode, the IP address for the base station can be automatically acquired. You can confirm the acquired IP address by selecting [Settings] for Home-Wired LAN on the [Base station Address] screen.

### Note

If  does not appear, switch the connection mode to [Home-Wireless] and then back to [Home-Wired LAN].

## Connecting via Home-Wired LAN

### Connecting the monitor

After finishing the wired LAN setup, connect the monitor to the Ethernet port on a wall or on a router with a LAN cable (not supplied).

### Tip

You should use a straight-wired LAN cable to connect the monitor. Most computers connect with the same type of cable.

### Note

Depending on the performance of your router or hub, when enjoying TV or video via wired LAN, the monitor may not be able to communicate correctly and other devices connected to the Internet may be adversely affected. When connecting by wired LAN, be sure to use a 10/100Base-T router or hub.

To use the monitor outside the home-wired LAN, see “Wireless Connection at Home” (☞ page 47) and “Wired LAN Connection at Home” (☞ page 48)

## ADVANCE: Making Use of NetAV

This section describes how to set up the NetAV server on the base station and the NetAV client on the monitor.

### What's NetAV

While you are away from home with your monitor, you can connect it to your base station via the Internet, enjoy TV, and control the VCR or the DVD player in your home. This is the “NetAV” function.

By connecting it to a public wireless access, you can enjoy NetAV at a cafe via the Internet. You can also enjoy NetAV at a hotel by connecting it to the Internet via wired LAN.

#### Notes

- To use NetAV, you must perform the following settings beforehand on the base station, router, and other peripheral devices. Without configuring the necessary settings, you will not be able to use the NetAV function when you take the monitor away from home.
- You cannot use NetAV when connected to the Internet via an analog phone line that uses a dial-up router.

### Connecting to the Internet using the NetAV function

Configuring the monitor settings allows you to connect to the Internet using the NetAV function from a wireless or wired LAN away from home. NetAV settings must be configured when connecting by either Wireless or Wired LAN. In addition, when connecting wirelessly you must configure [Wireless Monitor Settings], and when connecting by Wired LAN you must configure [Wired Monitor Settings].

#### Notes

- When using NetAV, the base station power must be turned on.
- You must set up NetAV in advance while you are at home and the monitor has a wireless connection to the base station (Home-Wireless mode). If you cannot connect to the base station in Home-Wireless mode while away from home, you cannot change the base station settings.

#### 💡 Tips

- NetAV transmits video via the Internet. Currently, we recommend the network throughput higher than 300 kbps (both uploading and downloading). If the connection speed is too slow, the picture and sound may cut out or be affected by noise, etc.
- Because the monitor does not have a PPPoE function, you may need to configure the router settings when using the monitor at a location other than your home.
- If a firewall is set, you cannot use NetAV.

### Line types not supported by NetAV

- Analog phone line using a dial-up router
- Cellular phones

Some other line types may not allow you to connect with NetAV because of restrictions imposed by Internet Service Providers (ISPs) or the connection devices in use.

## Setting Up NetAV

You need to select [Home-Wireless] mode on the [Monitor] window to prepare for the base station settings over the wireless connection.

### Making the base station accessible by NetAV

The NetAV function allows you to enjoy movies and other media while away from home by accessing your base station via the Internet. It is necessary, therefore, to set your base station so it is accessible over the Internet.

### Start up the NetAV server on the base station

To use NetAV function, enable the NetAV port on the base station, and set up so the base station is accessible by NetAV while away from home.

- 1 Open the [Settings] window and select [Base station].  
The [Base station] window appears.

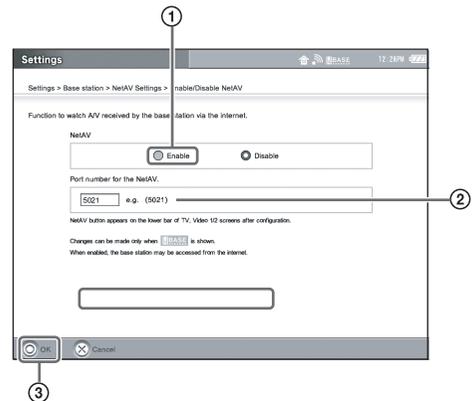
- 2 Select [NetAV Settings].  
The [NetAV Settings] window appears.

#### Note

[NetAV Settings] can only be selected when the monitor is set to Wireless Home mode. If you cannot select [NetAV Settings], check your monitor settings.

- 3 Select [Enable/Disable NetAV].  
The [Enable/Disable NetAV] window appears.

- 4 Configure the necessary settings for each item and select [OK].



- 1 Select [Enable].
- 2 If necessary, change the port number of the NetAV server.
- 3 Select [OK].

#### Tip

For [Port number for the NetAV], enter a number between 5021 and 5999.

#### Note

Configure the following items while the base station and monitor are connected in Home-Wireless mode.

The [NetAV Settings] window reappears.

- 5 Select [Back].  
The [Base Station] window reappears.

- 6 Select [Settings], then select [Exit].

#### Tip

When the base station is connected to the Internet through a router, the router must be set to port forwarding\*. Refer to the “Port number for the NetAV” in the [Enable/Disable NetAV] window, and set access to the NetAV port to forward to the IP address of the base station (☞ This page).

\* Some makers call it by different names such as port transfer or static IP masquerade.

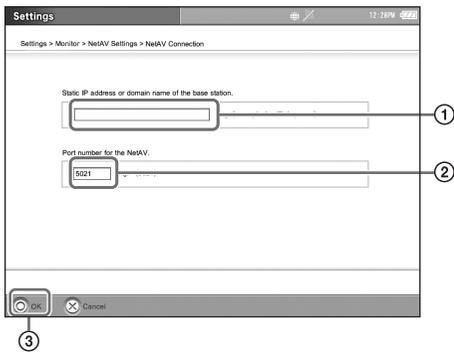
## Configuring the monitor to connect using NetAV

**1** Open the [Settings] window and select [Monitor].  
The [Monitor] window appears.

**2** Select [NetAV Settings].  
The [NetAV Settings] window appears.

**3** Select [NetAV Connection].  
The [NetAV Connection] window appears.

**4** Set the following items and select [OK].



① IP address or base station domain name\* when connecting with NetAV.

If you input an IP address, enter the IP address you wrote down in the section “Setting Up the Monitor” (page 54) or, input the domain name you acquired.

② Port number for the NetAV  
Enter the port number for the NetAV server. (Set the port number between 5021 and 5999.)

③ [OK] button

The [NetAV Settings] window reappears.

**5** Select [Back].  
The [Monitor] window appears.

**6** Select [Settings], then select [Exit].

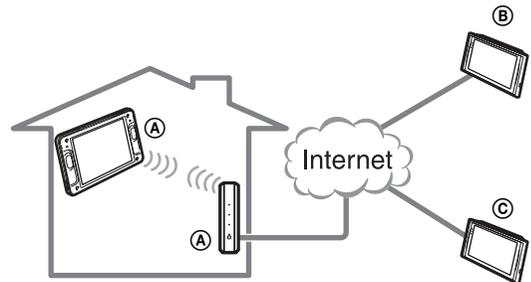
\* For more on domain name, refer to the LocationFreeTV FAQ.  
(<http://www.sony.com/locationfree/faq/>).

## Setting the Dynamic DNS client on the base station

For more on how to configure settings, refer to the LocationFreeTV FAQ  
(<http://www.sony.com/locationfree/faq/>).

## Registering Other Monitors

You can register other monitors to a single base station. When registered, either monitor (B) or (C) can connect to the base station (A) in On the go-Wireless or Wired LAN mode and enjoy NetAV.



### Notes

- You cannot use Registering Other Monitors for purposes other than individual use.
- To use Registering Other Monitors, the base station (A) must have the necessary environment and settings to connect with NetAV. For more on NetAV, see page 55.
- The registered other monitors (B and C) cannot connect to the base station (A) in Home-Wireless or Wired LAN mode.
- Up to 4 monitors can be registered with a single base station, but multiple monitors cannot view video and TV content at the same time.

For example, you can register monitor **(B)** to base station **(A)** in following procedures.

Setting up base station **(A)**:

- Select [Wireless] under [Home]. (Refer to “Wireless Connection at Home” (☞ page 47).)
- Select [Enable] for NetAV. (Refer to “Start up the NetAV server on the base station” (☞ page 56).)
- Set the base station to accept registration from monitor **(B)**. Write down the password for registration. (Refer to “Setting up for additional monitors” on this page.)

Setting up monitor **(B)**:

- Select [Wired LAN] or [Wireless] under [On the go]. (Refer to “Wired LAN Connection On the Go” (☞ page 48) or “Wireless Connection On the Go” (☞ page 49).)
- Set IP address/domain name and port number to connect to base station **(A)**. (Refer to “Configuring the monitor to connect using NetAV” (☞ page 57).)
- Enter registration password acquired from the base station **(A)** setting, and select [Start] to register. (Refer to “Registering other monitors to the base station” (☞ page 59).)

## Configuring base station settings

Configure settings so that additional monitors can be registered to the base station, and so monitors can access the base station with NetAV. Perform these settings on the base station and home monitor together.

### Setting up for additional monitors

In this section, you can also set whether to allow AV interception on a bound monitor.

- 1 Open the [Settings] window and select [Base station].  
The [Base station] window appears.

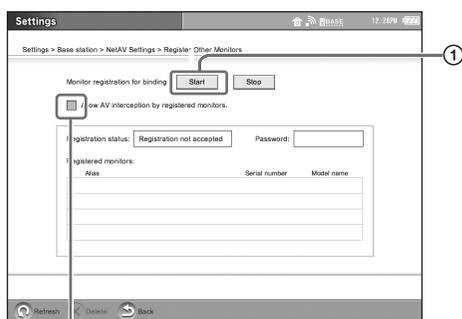
- 2 Select [NetAV Settings].  
The [NetAV Settings] window appears.

### Note

[NetAV Settings] can only be selected when the monitor is set to Home-Wireless mode. If you cannot select [NetAV Settings], check your monitor settings.

- 3 Select [Register other monitors].  
The [Register other monitors] window appears.

- 4 Configure the following settings.



- 1 Select [Start].
- 2 Check this check box if you allow AV interception by registered monitors.

### Tip

The monitors currently registered to the base station are listed under [Registered monitors:]. To delete a registered monitor, select the check box beside the monitor, and then select [Delete].

An 8-digit password is created and appears on the screen.

You should write this password down because you will need it when connecting another monitor to the base station.

- 5 Select [Back].  
The [NetAV Settings] window reappears.

6 Select [Back].  
The [Base station] window reappears.

7 Select [Settings], then select [Exit].

### Configuring additional monitor settings

Once the base station is set up to allow additional monitors, set up the monitors to connect to the base station via the Internet. Perform these settings on monitors to be used from outside the home.

#### Setting up to connect to the base station via the Internet

Refer to “Setting Up NetAV” (☞ page 56), and set up to connect to the base station via the Internet.

**Note**

If the IP address or domain name and port number for the base station you want to register are not input correctly, you cannot proceed with registration.

#### Registering other monitors to the base station

Register the monitors that will connect to the base station via the Internet.

**Note**

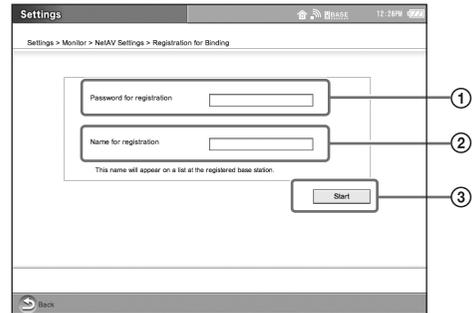
Switch the connection type for the monitor to [On the go-Wireless] or [On the go-Wired LAN] depending on the connection used for On the go to start NetAV.

1 Display the [Settings] window, and select [Monitor].  
The [Monitor] window appears.

2 Select [NetAV Settings].  
The [NetAV Settings] window appears.

3 Select [Registration for Binding].  
The [Registration for Binding] window appears.

4 Configure the following settings and select [Start].



- ① Enter the [Password for registration] that was created in step 4 of “Setting up for additional monitors” (☞ page 58).
- ② Enter the name of the monitor being registered to the base station.  
You can register any name.
- ③ [Start] button

A confirmation message appears.

5 Select [OK].

6 Select [Back].  
The [Monitor] window reappears.

7 Select [Settings], then [Exit].

## Notes on using NetAV with additional monitors

Refer to the illustration in “Registering Other Monitors” (📖 page 57).

- Only one monitor can enjoy video with the base station at once. In the case when the two monitors (B) and (C) are registered to the base station (A), monitor (B) or (C) cannot establish a NetAV session with the base station (A) while the monitor (A) is receiving video from base station (A).
- If you have configured the base station (A) to enable [Allow AV interception by registered monitors] in the [Register other monitors] setting, monitor (B) or (C) can start NetAV while the monitor (A) is receiving video from the base station (A).
- When your monitor (A) cannot receive video because monitor (B) or (C) is in a NetAV session with the base station (A), you can see the indicator  at the top of the screen. If you press [GetAV] button in such a case, the NetAV session between monitor (B) or (C) and the base station (A) will be disconnected and your monitor (A) can receive video from the base station (A).

## Connecting with NetAV

This chapter describes how to start NetAV and some functions for NetAV. Follow the procedure on page 49 to 51 to use NetAV in the “On the go-Wireless mode”.

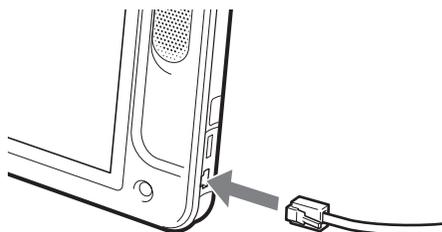
### Note

You cannot use NetAV while away from home if the base station in your home is turned off. Make sure to turn on the base station.

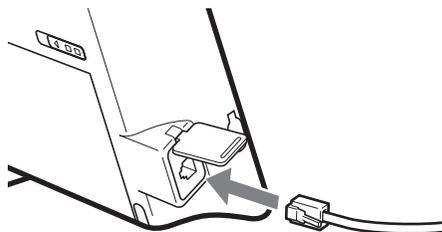
### When Connecting via Wired LAN

Using a LAN cable, connect the LAN port on the monitor to the Ethernet jack at the place you are visiting.

#### ◆For the LF-X1



#### ◆For the LF-X5



## Establishing the NetAV connection

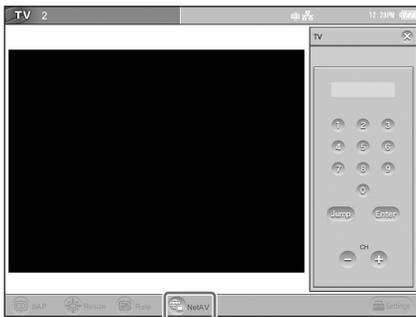
1 Turn on the monitor.



**Tip**  
Make sure the monitor is in “On the go mode”.

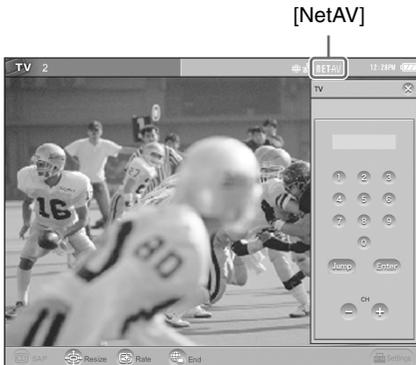
2 Touch anywhere on the screen.  
The on-screen remote appears.

3 Select [NetAV].



[NetAV]

After a brief interval the monitor connects to your base station at home, and **NETAV** appears at the top of the screen. After **NETAV** appears, you can operate the monitor in the same way you do at home.



[NetAV]

### ⚡ Tips

- While connected with NetAV, the NetAV indicator on the front of the base station lights green.
- You cannot use the sub-screen (LF-X1 only) or settings screens in NetAV mode. Selecting a screen other than TV, video input 1, or video input 2 in NetAV mode automatically breaks the connection with NetAV.

### Quitting NetAV

Select [End] or turn off the monitor.

### Changing TV channels

Using the on-screen remote, you can operate the TV screen the same way you do at home. See “Watching TV and Video” (📖 page 65).

### ⚡ Tips

- You may not be able to watch some copyright protected programs.
- When selecting a new channel on a NetAV connection, there may be a delay before the picture appears due to buffering.

### Changing the TV picture size

In NetAV mode, you can change the size of the TV picture on the monitor. Select [Resize]. A dialog box for changing the TV picture size appears and you have three choices for the TV picture size. With the factory default setting, picture is displayed on the entire screen.

### Changing the streaming

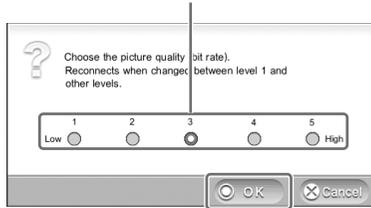
In NetAV mode, you can change the streaming according to the network status.

1 Select [Rate].

A dialog message for changing the connection speed appears.

- .....
- 2** Select a speed, then select [OK].  
You can select between 1 and 5 as the connection speed.

Select a speed.



[OK]

You can change the connection speed while connected to NetAV. Be aware, however, that the NetAV connection will be cut for a moment when you change from the lowest connection speed to another speed or vice versa.

.....



# Basics Operations

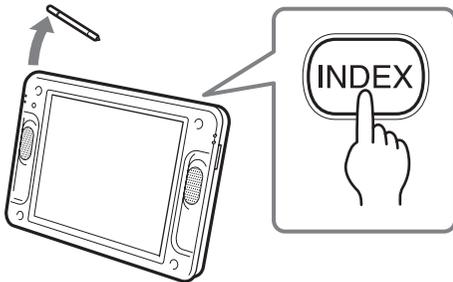
|   |         |
|---|---------|
| Displaying the [Index] Window.....                | page 64 |
| Watching TV and Video.....                        | page 65 |
| Using the TV/Video Screen .....                   | page 67 |
| Selecting a Secondary Audio Program (SAP) .....   | page 68 |
| Optimizing Picture Quality .....                  | page 68 |
| Using the Sub-Screen (LF-X1 only).....            | page 69 |
| Capturing Images .....                            | page 70 |
| Using the Wide Screen Mode (LF-X5 only) .....     | page 71 |
| Adjusting the Picture Position (LF-X5 only) ..... | page 71 |

# Displaying the [Index] Window

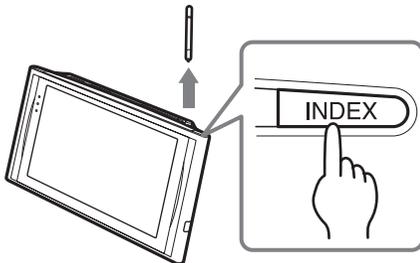
All of the LocationFreeTV's functions are accessed from the [Index] window.

**1** Press INDEX, then detach the stylus from the monitor.

◆ **For the LF-X1**



◆ **For the LF-X5**



The [Index] window appears.

**💡 Tips**

- When you turn the power on, the monitor displays the TV channel or video you were watching prior to turning the power off.
- For about 15-20 seconds after the power is turned on, the monitor does not respond to the INDEX button or touch panel. During that time, the message "Starting up, please wait..." appears.
- To display the setup screen, select [Settings] at the bottom right of the screen. If [Settings] is not shown, touch anywhere on the screen to make it appear.

**2** Select a function.



\* The LF-X5 has no [Monitor Video In] option.

**💡 Tips**

- To return to the [Index] window, press INDEX again.
- To hide the [Index] window, press INDEX again.
- When the [Index] window is displayed, all buttons other than INDEX are disabled, and you cannot select the sub-screen or any on-screen Internet links.

The corresponding screen appears.

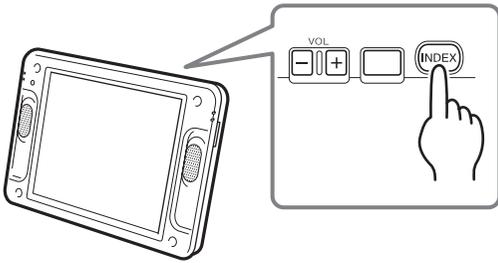


When you touch anywhere on the screen in TV mode, a TV channel remote appears. If you touch the screen in video mode and have configured the remote control settings, the on-screen remote control appears.

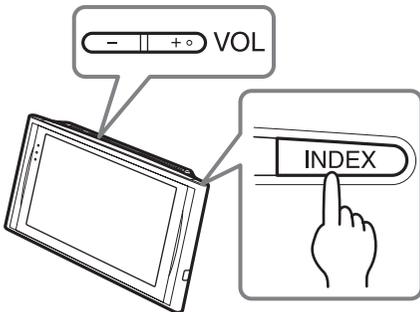
# Watching TV and Video

Open the [Index] window and select a channel. To adjust the volume, press the VOLUME +/- buttons on the top of the monitor.

## ◆ LF-X1



## ◆ LF-X5



### 💡 Tip

Press the VOLUME – button on the monitor for 2 seconds to silence the sound quickly.

## Changing channels with the on-screen remote control

Touch anywhere on the screen to display the on-screen remote control, then select a channel.

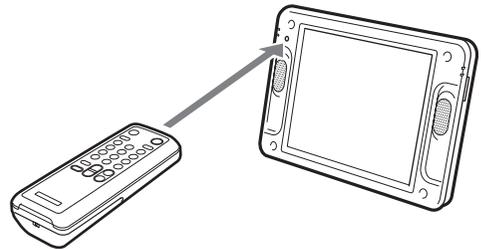
You can also hide the on-screen remote control by selecting [X] at the top right corner.

On-screen remote control



## Changing channels with a Sony remote control (not supplied) (LF-X1 only)

Point the remote control at the infrared receiver on the monitor and press a channel number button. If the TV screen is not displayed, however, switch to the TV screen using the TV button on the remote control, and then select a channel.

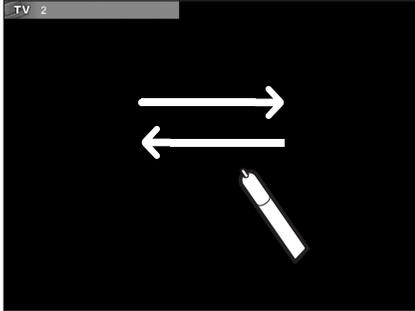


### Note

While using the LFA-F1 splash proof jacket (not supplied), you cannot use a remote control (not supplied).

## Changing channels with the stylus

Slide the stylus over the screen from left to right to display the next channel, and from right to left to display the previous channel. Hold the stylus down at the end of a stroke to cycle through the channels in the direction indicated.

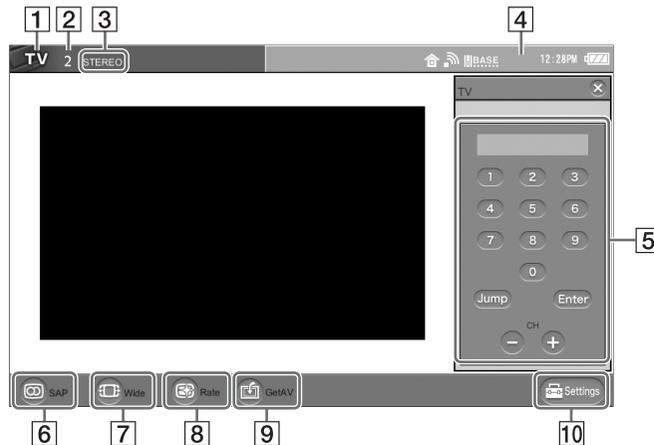


### Tips

- In TV mode, skimming the screen with the stylus changes TV channels.
  - In video mode, skimming the screen with the stylus changes channels on the tuner of the connected video equipment. This option is only available when the external video equipment has a tuner and remote control settings have been configured (☞ page 33).
  - Changing channels using the stylus is possible only when a TV program is displayed on the entire screen. You cannot do so while the on-screen remote control is displayed.
- .....

# Using the TV/Video Screen

## Parts and controls on the TV/Video screen



- 1** TV/Video mode indicator
- 2** TV channel number
- 3** SAP (Secondary Audio Program) mode indicator (☞ page 68)  
Displays [STEREO] or [SAP] each time the [SAP] button is pressed.  
◆**For the LF-X1**  
The channel number input by the infrared remote control is shown here.  
◆**For the LF-X5**  
The wide mode selection ([Wide Zoom], [Normal], [Full], and [Zoom]) is shown.
- 4** Volume level indicator
- 5** On-screen remote control  
Appears when you touch anywhere on the TV screen and allows you to select a channel. Different remote controls appear depending on the settings.
- 6** SAP button (☞ page 68)  
Switches between STEREO and SAP when an SAP program is tuned in.
- 7** Wide button (LF-X5 only) (☞ page 71)  
Switches to Wide Screen mode.  
Select repeatedly to cycle through the Wide Screen mode settings: Wide Zoom, Normal, Full, Zoom.
- 8** Rate button  
Optimizes picture quality according to the ambient radio wave conditions.
- 9** [GetAV] appears here when  appears on the upper portion of the screen (only appears when another bound monitor is connected to the base station using NetAV.).
- 10** Settings button  
Displays the [Settings] window.

### Note

This monitor does not support non-interlace signals used for computer monitors, etc.

## Selecting a Secondary Audio Program (SAP)

The secondary audio program (SAP) mode is available for television broadcasts that include multiple audio tracks.

.....

When a TV program with multiple audio tracks is tuned in, repeatedly select [SAP] at the bottom left of the screen to switch between audio tracks. Each time the [SAP] button is pressed, [STEREO] or [SAP] appears in the bar on the screen.

.....



**Tip**

To select an SAP option for external equipment, use the remote supplied with the connected equipment.

## Optimizing Picture Quality

To optimize the picture quality according to the current radio wave conditions, select [Rate] at the bottom of the screen. The message “Changing rate. Please wait...” appears at the top of the screen. Each time you select [Rate], the optimum frequency, which depends on the current radio wave conditions, is obtained.



**Tip**

Pictures on the screen may be temporarily stopped. This is not a malfunction.

# Using the Sub-Screen (LF-X1 only)

While viewing web pages or mail, you can watch TV or video on the sub-screen.

Select [PIP] at the bottom right of the screen. The most recent TV or video channel is displayed on the sub-screen at the bottom right of the screen.



The most recent channel is displayed on the sub-screen.

If you touch the sub-screen, buttons for operating the sub-screen appear.



- When using the built-in tuner, you can change channels in the sub-screen using [-] and [+]. If you connect the IR Blaster to a set-top box connected to an antenna, you can change channels on the set-top box, as well.
- To watch the image in full screen, select [Full].
- If you select [Sound], the speakers output sound for the sub-screen but pictures on the sub-screen disappear. To restore the picture display, select [PIP].
- To quit the sub-screen display, select  .

## Tip

You can move the sub-screen to a different position. Touch the sub-screen and then drag it to the desired position. You cannot move the sub-screen, however, when the following windows are displayed:

- [Index] window
- Capture list
- Dialog message
- On-screen Keyboard
- Web browser page list

## Note

The sub-screen goes dark if you select a channel on external video equipment that has not been connected or has been turned off.

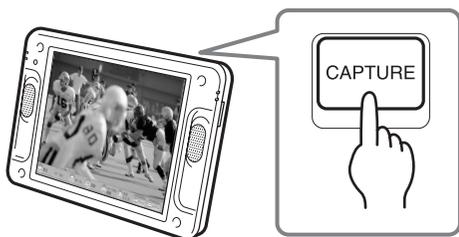
# Capturing Images

With the CAPTURE button on top of the monitor, you can capture a still image of the currently displayed screen. You can then save captured images automatically in the album to enjoy later at your convenience.

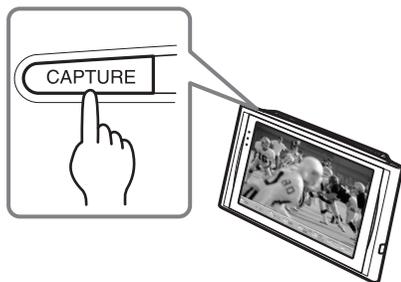
\* Captured images cannot be used for purposes other than personal enjoyment without the permission of their copyright holders.

1 Press CAPTURE when a scene appears that you want to save.

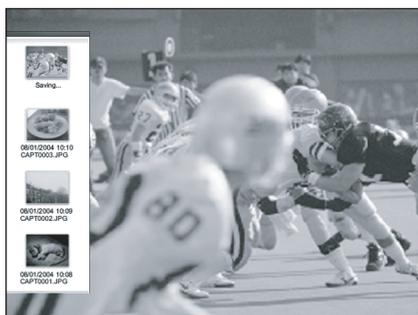
## ◆For the LF-X1



## ◆For the LF-X5



The captured image is displayed in the capture list and saved in the album.



## Note

Captured images are not saved in the album if you turn off the monitor or the battery runs out while the capture list is displayed.

## 💡 Tips

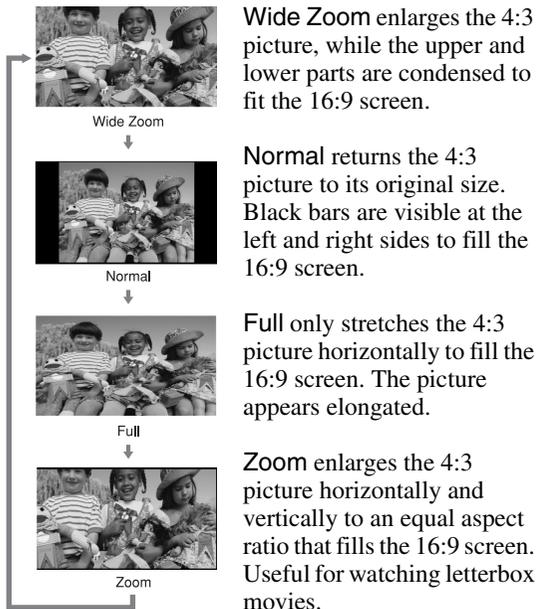
- When you capture a web page, you can specify a specific image on the page to save in the Album (☞ page 80).
- You cannot capture the screen if:
  - The [Index] window is displayed.
  - You have just captured an image.
  - A slide show is in progress.
  - The TV channel has just been changed.
  - A message is displayed.
  - The [Stylus Calibration] window is displayed.
  - An enlarged album image is displayed.
  - Images input from an external source, such as a DVD, including a copyguard signal, are displayed.
  - MPEG movie is played.

\* You cannot capture images on TV immediately after changing channels. This is also true when copyguard signals are detected; for example when a DVD is being played.

# Using the Wide Screen Mode (LF-X5 only)

Selecting the Wide button switches the monitor to the Wide Screen mode.

Wide Screen mode lets you watch normal broadcasts (4:3 aspect ratio) or other picture sizes, such as letterbox movies, in several Wide Screen modes (16:9 aspect ratio). Select the Wide button repeatedly to cycle through the following Wide Screen mode settings.



**Tips**

- When you change channels or inputs, the Wide Screen mode settings revert to the 4:3 Default setting. To retain the current Wide Screen mode setting as channels and inputs are changed, set 4:3 Default to Off.
- 4:3 Default setting is not available while connected with NetAV.

# Adjusting the Picture Position (LF-X5 only)

You can move the position of the picture up and down for each Wide Screen Mode in the following cases:

- To move the position of the picture only in “Wide Zoom” and “Zoom” modes
- When subtitles may not fit in the screen

- 1 Open the [Settings] window and select [TV/Video].  
The [TV/Video] window appears.
- 2 Select [Wide Mode].  
The [Wide Mode] window appears.
- 3 Make settings in [Vertical Center].



|   |         |
|---|---------|
| Viewing Web Pages: Basics .....           | page 74 |
| Using the Web Window .....                | page 75 |
| Viewing Web Pages: Useful Functions ..... | page 76 |
| Using the Fav. List .....                 | page 76 |
| Saving a Web Page (Save) .....            | page 78 |
| Capturing a Web Page (Album) .....        | page 80 |
| Searching for Text on a Web Page .....    | page 80 |
| Copying and Pasting Text .....            | page 81 |
| Viewing PDF Files on the Web .....        | page 82 |
| Configuring Other Settings .....          | page 82 |

**Note**

To access the Internet, you also need to contract with an Internet service provider (ISP). See “Connecting to the Internet” (🔗 page 37) and “Configuring Network Settings” (🔗 page 40).

# Viewing Web Pages: Basics

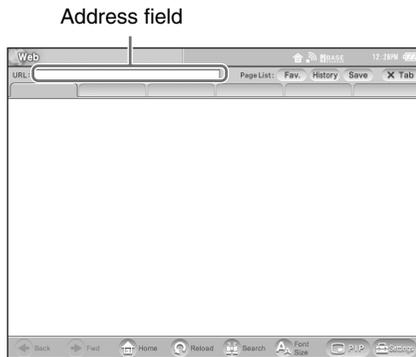
This section explains how to display the Web window and open web pages. As an example, let us try accessing the Sony web site (<http://www.sony.com>).

## Tip

For details on character entry, see “Entering Characters” (📖 page 116).

- 1 Open the [Index] window and select [Web]. The Web window appears.

- 2 Select the address field.



The on-screen keyboard appears.

- 3 Using the on-screen keyboard, enter <http://www.sony.com/>, then select [Close].

URL:

The keyboard disappears and the unit starts downloading the Sony web site. While downloading, the Internet icon at the top left of the screen moves. When downloading is finished, the Sony web site opens and the Internet icon stops moving.

With the LF-X5, select [Exit] after inputting the web page address.

## Note

Your contract with an Internet Service Provider (ISP) may prohibit you from accessing the Internet from more than one device at a time. For more information, check with your ISP.

# Using the Web Window

## Parts and controls on the Web window



- 1 Web icon  
Moves when a web page is being downloaded.
- 2 Web indicator
- 3 Address field “Viewing Web Pages: Basics” (☞ page 74)  
Displays the address of the current web page. To open another web page, select a new tab, and enter the new address here.
- 4  SSL icon  
Appears when a web page encrypted by SSL (Secure Socket Layer) is open.
- 5 Fav. (favorites) (☞ page 76)  
Displays the [Page List: Fav.] window, where you can save and access your favorite web page addresses.
- 6 History  
Displays a list of the web pages you have opened recently.
- 7 Save (☞ page 78)  
Displays the [Page List: Save] window, where you can save the current web page. You can open saved web pages later without being connected to the Internet.
- 8  Tab  
Closes the web page displayed on the current tab and leaves the tab blank.
- 9 Tab  
If you select a link designed to open in a new window, it is opened in a new tab. Six tabs are available in total. Immediately after connecting to the Internet, all tabs are blank except the leftmost tab. When all six tabs are in use, you must first close a tab before you can open another web page.

- 10 Back  
Opens the previous web page.
- 11 Fwd (forward)  
Opens the next web page.
- 12 Home (🏠 page 82)  
Opens the web page you have specified as default page.
- 13 Reload  
Reloads the current web page.  
Stop: Stops loading the web page.
- 14 Search (🔍 page 80)  
Searches the current page for a specified character string.  
Copy: Copies highlighted text.
- 15 Font Size  
Changes the font size of all characters on the screen.
- 16 PIP (LF-X1 only) (📺 page 69)  
Displays TV or video in the sub-screen.
- 17 Settings (⚙️ page 82)  
Displays the [Settings] window.  
Select [Web] in the [Settings] window to configure settings for web browsing.

### After viewing a web page that requires user authentication

To protect users' privacy, some web pages, before allowing access, require users to log in with a user ID (the user's name, etc.) and password to verify their identity. When finished viewing one of these web pages, make sure to select "log out," if available, before proceeding to another web page. Failure to do so may allow other people to view your personal information.

On the Internet, there is a danger of personal information being leaked or stolen. This device supports SSL to encrypt information for increased security.  
When a web site that supports SSL encryption is displayed,  appears to the right of the URL field in the browser.

# Viewing Web Pages: Useful Functions

## Using the Fav. List

By adding your favorite web pages to the Favorites list, you can quickly access them again later, without having to input their addresses or search for them with a search engine. The LocationFreeTV can store up to 100 web page addresses in the Fav. list.

### Adding a web page to the Fav. list

- 
- 1 Open your favorite web page and select [Fav.].  
The [Page List: Fav.] window appears at the right of the screen.

 **Tips**

- You can change the title of web pages in the Fav. list (🔍 page 77).
- You can save web page addresses to an external memory card. You can also copy web page addresses to or from an external memory card. (With the LF-X1, you can copy to or from a "Memory Stick", and with the LF-X5 you can copy to or from a CompactFlash card.)

2 Select [Add].

With the unit selected,  appears. With a “Memory Stick” selected for the LF-X1,  appears.

With a CompactFlash card selected for the LF-X5,  appears.



[Add]

This button appears only when a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5) is inserted.

 Tip

To add a favorite web page to a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5), select [Switch] to switch to the “Memory Stick” (LF-X1) or CompactFlash card (LF-X5), and then select [Add].

The title name of the current web page is added at the top of the first page of the Fav. list. (If there is no title, the web page address is displayed.)

To close the [Page List: Fav.] window, select  at the top right of the window.

**Note**

A web page cannot be added to the Fav. list while it is downloading. In step 2, [Add] is dimmed if the current web page is still downloading. Wait until downloading is finished, and select [Add] again.

**Viewing a web page in the Fav. list**

Select [Fav.] at the top right of the screen. The Fav. list appears. From the list, select the web page that you want to view.

The selected web page begins downloading.

 Tips

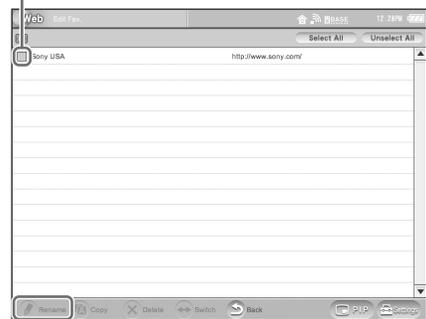
- You can display the next page of the Fav. list by selecting [▶] and the previous page by selecting [◀].
- To open a web page saved on a “Memory Stick”, select [Switch] at the bottom of the Fav. list. Or, select [Edit], then select [Switch] in the [Edit Fav.] window.

**Renaming a web page in the Fav. list**

1 In the Fav. list, select [Edit]. The [Edit Fav.] window appears.

2 Select the check box beside the web page you want to rename, then select [Rename] at the bottom of the screen. Web pages can only be renamed one at a time.

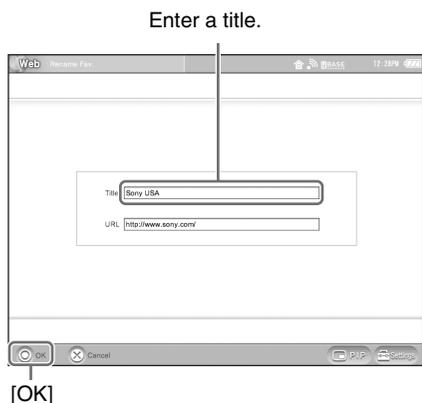
Select this check box



[Rename]

The [Rename] window appears.

- 3 Enter a new title in the [Title] field and select [OK].



**Tip**  
For details on character entry, see “Entering Characters” (☞ page 116).

## Copying web pages to or from an external memory card

You can save web page addresses to a “Memory Stick” (for the LF-X1) or a CompactFlash card (for the LF-X5).

In the [Edit Fav.] window, select the check box beside the web page you want to copy, then select [Copy]. To copy all the web pages, select [Select All], then select [Copy].

## Deleting web pages from the Fav. list

In the [Edit Fav.] window, select the check box beside the web page you want to delete, then select [Delete]. To delete all the web pages, select [Select All], then select [Delete].

## Saving a Web Page (Save)

You can save the current web page to view later at your convenience, without accessing the Internet. The LocationFreeTV can store up to 100 web pages in the Save list.

- 1 When a web page is displayed, select [Save]. The [Page List: Save] window appears at the right of the screen.

- 2 Select [Add].

With the unit selected,  appears.  
With a “Memory Stick” selected for the LF-X1,  appears.

With a CompactFlash card selected for the LF-X5,  appears.



This button appears only when a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5) is inserted.



**Tip**  
To save a web page on the “Memory Stick” (LF-X1) or CompactFlash card (LF-X5), select [Switch] to switch to the “Memory Stick” (LF-X1) or CompactFlash card (LF-X5), then select [Add].

The address of the current web page is added at the top of the first page of the [Page List: Save]. (If there is no title, the web page address is displayed.)

To close the [Page List: Save] window, select  at the top right of the window.

**Note**

A web page cannot be saved while it is downloading. In step 2, [Add] is dimmed if the current web page is still downloading. Wait until downloading is finished, and select [Add] again.

**Viewing a saved web page**

Select [Save], then select a web page from the [Page List: Save] window that appears at the right of the screen.

The selected web page begins downloading.

**Tip**

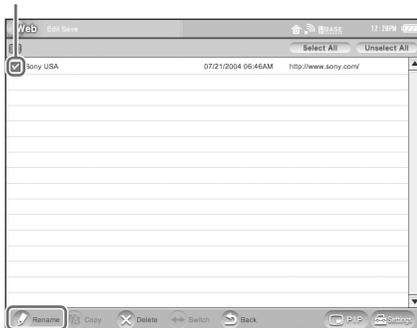
To view a web page saved on a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5), select [Switch] at the bottom of the [Page List: Save] window. Or, select [Edit], then select [Switch] in the [Edit Save] window.

**Renaming a saved web page**

**1** In the [Save] window, select [Edit]. The [Edit Save] window appears.

**2** Select the check box beside the web page you want to rename, then select [Rename]. Web pages can only be renamed one at a time.

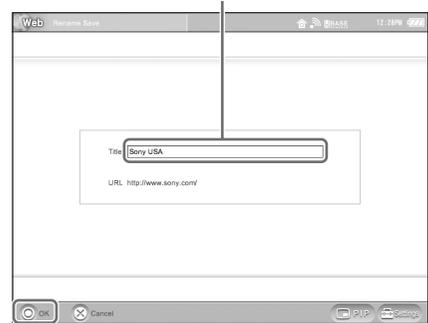
Select this check box.



[Rename]

**3** Enter a new title in the [Title] field, then select [OK].

Enter a title.



[OK]

**Tip**

For details on character entry, see “Entering Characters” (page 116).

**Copying saved web pages to or from an external memory card**

You can save web page addresses to a “Memory Stick” (for the LF-X1) or a CompactFlash card (for the LF-X5).

In the [Edit Save] window, select the check box beside the web page you want to copy, then select [Copy]. To copy all the web pages, select [Select All], then select [Copy].

**Deleting saved web pages**

In the [Edit Save] window, select the check box beside the web page you want to delete, then select [Delete]. To delete all the web pages, select [Select All], then select [Delete].

## Capturing a Web Page (Album)

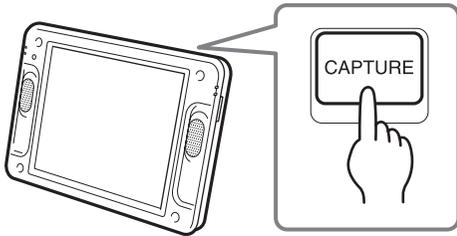
You can capture a web page and save the image in the album. For web pages containing pictures, you can capture not only the entire screen but select specific images for capture.

### Note

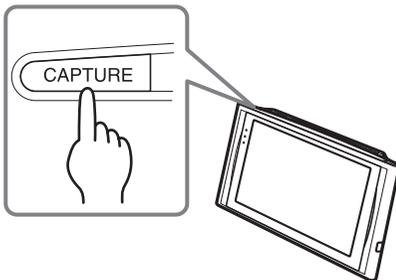
Some web pages contain images that cannot be captured.

- 1 With the web page you want to capture open, press CAPTURE on top of the monitor.

#### ◆For the LF-X1

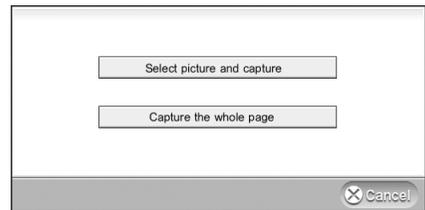


#### ◆For the LF-X5



The [Capture Check] window appears.

- 2 Select [Select picture and capture] or [Capture the whole page].  
If you select [Select picture and capture], the message "Select a picture to capture" appears at the top left of the screen. Go to step 3.  
If you select [Capture the whole page], the entire screen is captured.



- 3 Select an image for capture.  
The selected image is captured.

The captured image is temporarily displayed in this area for your confirmation.



The captured image is saved automatically in the album.

## Searching for Text on a Web Page

You can search for any text string on the current web page.

### 💡 Tip

This function only allows you to search for text that can be highlighted with the stylus. It cannot search for saved as an image.

**1** With the web page you want to search open, select [Search].  
The search window appears at the bottom of the screen.

**2** Enter a character string into the entry field, then select [Close] on the on-screen keyboard.  
With the LF-X5, select [Exit] after entering a character string.  
You can also select [Next] or [Prev] to start the search.  
(When using a commercially available keyboard, press the Enter key.)  
A search begins for the text you entered.

Matching character string



Enter a character string in this field.

**Tips**

- To search for the next match, select [Next]. To search for a previous match select [Prev].
- For details on character entry, see “Entering Characters” (📖 page 116).

**3** To stop searching, select [Exit].

## Copying and Pasting Text

You can copy any text string on the current web page and paste it into an e-mail or onto another screen.

**1** Using the stylus, highlight the text you want to copy, then select [Copy].  
When any text is highlighted, [Copy] replaces [Search] at the bottom of the screen.  
After [Copy] is selected, [Search] reappears.

Highlighted text.



[Copy]

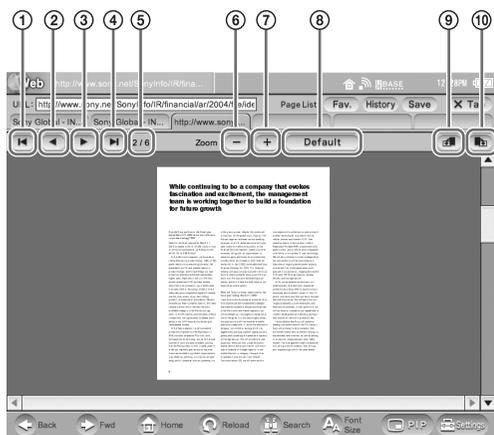
**2** Open the screen onto which you want to paste the copied text, and select where to paste it.

**3** Select [Paste] on the on-screen keyboard.  
The text is pasted in the location you chose.

## Viewing PDF Files on the Web

1 Click the PDF link in the Web page. PDF file is shown after the file is downloaded.

2 You can change the view of PDF files with the tool buttons under the tabs.



- ① Go to the first page of the document.
- ② Go to the previous page.
- ③ Go to the next page.
- ④ Go to the last page of the document.
- ⑤ Current page number / number of pages in the document.
- ⑥ Zoom out.
- ⑦ Zoom in.
- ⑧ Revert to default size.
- ⑨ Rotate the page orientation 90 degrees counterclockwise.
- ⑩ Rotate the page orientation 90 degrees clockwise.

You can also move the page by dragging the document using the touch panel.

### Note

Even PDF files supported by the device may not display for some Web pages.

## Configuring Other Settings

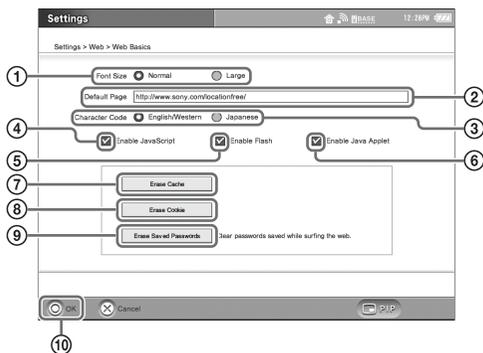
Proxy settings and other web browsing settings can be configured as necessary. In most cases, it is not necessary to set a proxy.

1 Select [Settings] at the bottom right of the screen. The [Settings] window appears.

2 Select [Web]. The [Web] window appears.

3 To configure web browsing settings, select [Web Basics]. The [Web Basics] window appears.

4 Configure the necessary items and select [OK].



- ① Font Size  
To increase the font size, select [Large].
- ② Default Page  
This sets the homepage that appears when you select the [Home] button in the Web window. The default setting for the homepage is the LocationFreeTV web page. Enter the address of the web page you want to set as your homepage.

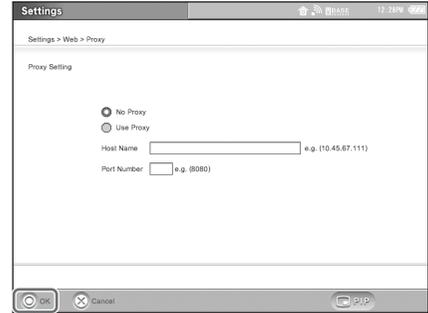
- ③ **Character Code**  
Most web pages include information about language encoding. If not, text may not display correctly. Use this setting to select the language for a web page. The default setting is [English/Western].  
If you changed the character code, the new character code takes effect after you restart the monitor.
- ④ **Enable JavaScript**  
Clear the check box if web pages that use JavaScript do not display properly or if you do not want them to be displayed.
- ⑤ **Enable Flash**  
Clear the check box if you do not want web pages that use Flash to be displayed.
- ⑥ **Enable Java Applet**  
Clear the check box if web pages that use Java Applet do not display properly or if you do not want them to be displayed.
- ⑦ **Erase Cache**  
Select to erase the cache memory. The content of web pages you view is temporarily saved in the cache memory, but the cache memory is automatically cleared when a certain amount of memory is used. This button allows you to clear the cache memory manually.
- ⑧ **Erase Cookie**  
Select to erase cookies. Cookies are files generated by some web pages you access. They contain information about the selections you made on certain web pages.
- ⑨ **Erase Saved Passwords**  
Select to erase any passwords saved when you select [Save this password] in the dialog box that appears after you enter an ID and password to view a web page.
- ⑩ **[OK] button**

When you select [OK], the [Web] window reappears.

If you changed the character code in ③, the message “In order for the browser settings to take effect, it is necessary to reboot the monitor. Reboot now?” appears. Select [OK] to restart the monitor automatically.

- 
- 5 To configure Proxy settings, select [Proxy]. The [Proxy] window appears.

- 
- 6 Configure the necessary items and select [OK].  
To connect to the Internet without going through a Proxy server, select [No Proxy]. To connect to the Internet via a Proxy server, select [Use Proxy], then enter a host and port.



[OK]

When you select [OK], the [Web] window reappears.

**Tip**

The information you need to enter depends on your ISP. For more information, consult the documents supplied by your ISP.

- 
- 7 Select [Settings], then select [Back].
-



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**Note**

To send and receive mail, you need to sign in to an Internet service provider (ISP) and configure mail settings. See “Setting Up Mail” (🔗 page 43).

# Using Mail: Basics

You can receive, compose, and send mail using the Mail window.

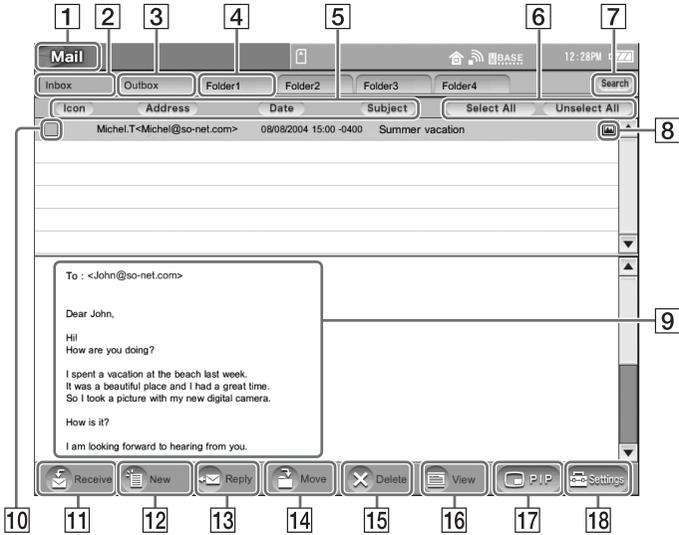
Press INDEX and select [Mail] in the [Index] window.



The Mail window appears.

# Using the Mail Window

## Inbox and Outbox Windows

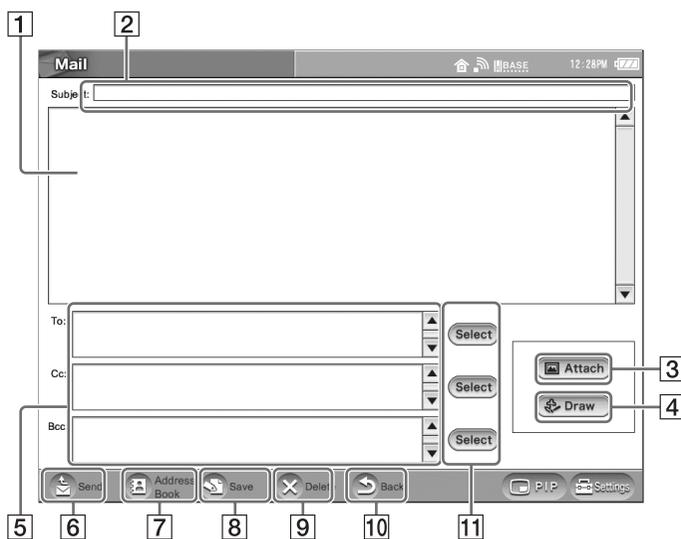


- 1** Mail indicator
- 2** Inbox tab (page 93)  
Shows the list of received mail.  
The content of the currently selected mail is shown in the bottom half of the window.
- 3** Outbox tab  
Shows the list of sent mail and mail temporarily saved for future editing.

- 4** Folder tab  
Appears when a “Memory Stick” (for the LF-X1) or a CompactFlash card (for the LF-X5) is inserted. This allows you to move the mail you have sent and received to an external media.

- 5** Sort buttons  
 Allow you to sort mail by icon, address, date, or subject. Each time you select the same sort button, sorting is switched between ascending and descending order.
- 6** Select All/Unselect All  
 [Select All]: Selects the check boxes for all displayed mail.  
 [Unselect All]: Clears the check boxes for all displayed mail.
- 7** Search (☞ page 99)  
 Allows you to search by keyword for a mail in the specified tab.
- 8** Picture-attached icon (☞ page 90)  
 Appears when a picture file is attached to a mail. When the attached file is not a picture, a paperclip icon appears instead.
- 9** Preview display  
 Shows the content of the currently selected mail in the Inbox, Outbox, or Folder tab.
- 10** Check box  
 A check mark is added or removed from this box each time you select it.
- 11** Receive (☞ page 93)  
 Checks for new mail.
- 12** New (☞ page 89)  
 Allows you to compose a new mail.
- 13** Reply, Resend, or Edit  
 Reply, Resend, or Edit appears depending on the content of the currently selected mail.  
 Reply: Displays the window for replying to mail (☞ page 95).  
 Resend: Displays the window for editing and sending mail that you have already sent.  
 Edit: Displays the window for editing mail.
- 14** Move (☞ page 98)  
 Moves specified mail to a folder on a “Memory Stick” (for the LF-X1) or a CompactFlash card (for the LF-X5).
- 15** Delete (☞ page 89)  
 Deletes specified mail, including any attached files.
- 16** View  
 Displays the text of the selected mail on the entire screen.
- 17** PIP  
 Displays TV or video on the sub-screen. This function is not available for the LF-X5.
- 18** Settings  
 Displays the [Settings] window.  
 Select [E-mail] in the [Settings] window to configure mail settings, such as font size.

## Compose Mail window



- 1** Text field  
Enter the body of message.
- 2** Subject field  
Enter the subject of the mail.
- 3** Attach (📎 page 90)  
Use to select pictures to attach to the mail.
- 4** Draw (🖍️ page 92)  
Use to create and attach hand-drawn picture and text to the mail.
- 5** Recipient fields  
Enter the mail addresses of recipients.
- 6** Send (📧 page 89)  
Sends a composed mail.
- 7** Address Book (📖 page 96)  
Displays the Address Book.
- 8** Save (💾 page 89)  
Saves the current mail in the Outbox for you to finish later.
- 9** Delete (🗑️ page 89)  
Deletes the currently selected mail.
- 10** Back  
Quits mail composition and returns to the Outbox or Inbox. Mail that has not finished being composed is saved in the Outbox.
- 11** Select (To/Cc/Bcc) (👤 page 97)  
Display the Address Book, so you can select mail recipients.

# Composing Mail

## Composing and Sending Mail

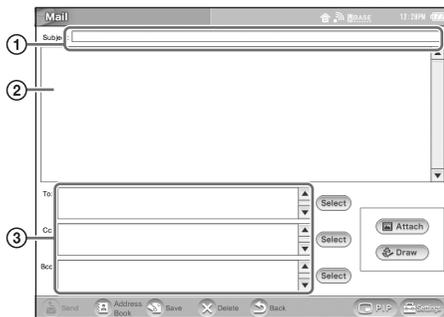


### Tip

For details on character entry, see “Entering Characters” (☞ page 116).

- 1 Open the Mail window, select the Outbox or Inbox tab, then select [New]. The [New] window appears.

- 2 Compose your mail.



- 1 Enter the subject of the mail.
- 2 Enter the main text of the mail.
- 3 Enter the mail address of the recipient. Be sure to enter the address correctly. A single misplaced character will prevent your mail from reaching the recipient.



### Tips

- You can save your name, mail address, and other contact information as a signature and add it to the end of your mail. For more information, see “Configuring Other Mail Settings” (☞ page 99).
- If you add mail addresses to the Address Book (☞ page 96), you can easily specify them as recipients later.

- 3 Check the text of your e-mail and the e-mail address of the recipient. Once you have sent an e-mail, you cannot cancel it.

- 4 Select [Send]. The e-mail is sent.

### Notes

- Unless you enter a recipient mail address, you cannot select [Send].
- This device does not support data encryption when sending e-mail. Take particular note of this when dealing with sensitive information.



### Tip

To check that the LocationFreeTV can send and receive mail properly, try sending a mail to your own mail address. For more on receiving mail, see “Reading Mail” (☞ page 93).

## Sending the same mail to multiple recipients

To specify multiple recipients in the [To], [Cc], or [Bcc] field, separate each mail address with a comma (,).

## When sending a mail fails

The **X** icon appears beside a mail in the Outbox to indicate that the mail has not been sent. Select [Edit], check the address of the recipient in the [Compose E-mail] window, then select [Send] again.

## Saving a mail in progress

Select [Save].

The Outbox opens and  appears beside the saved mail.

To continue composition of the saved mail, display the text of the mail, select [Edit], then edit the text. If you want to undo your editing and restore the previous text, select [Cancel] at the bottom of the window.

## Deleting a mail in progress or a saved mail

### • While composing a mail

Select [Delete] at the bottom of the [Compose E-mail] window.

• **From the Outbox**

Select and open the mail to be deleted, then select [Delete]. Or, select the check box beside the mail, then select [Delete selected].

## Attaching a Picture or Movie

Just as you might enclose pictures or drawings when writing a letter by hand, you can attach pictures and movies taken with a digital camera to your mail. You can select the picture or movie file you want to attach from those saved in the album or on a “Memory Stick” (for the LF-X1) or an a CompactFlash card (for the LF-X5).

**Note**

If the size of a mail including attached pictures and movies exceeds about 5 MB, you cannot send the mail. The list of attached pictures displays the total size of all attached pictures and movies (☞ page 113).

1 Enter the subject, text, and recipient of the mail.

2 Select [Attach].



[Attach]

The picture selection window appears.

3 Select the check box for a picture or movie, then select [Attach].

Folder tab (Appears with a “Memory Stick” in the LF-X1 or a CompactFlash card in the LF-X5.)



[Attach]

To attach multiple pictures or movies, select the check box next to each.

To attach images saved on a “Memory Stick” (for the LF-X1) or a CompactFlash card (for the LF-X5), select the desired Folder tab.

**Tip**

If you select a picture, the picture is enlarged. To restore the previous display, touch the picture again.

**Note**

The  icon appears to the right of images that exceed 4 MB to indicate that you cannot attach and send them. For movies, the  icon appears. An error message appears if you select [Attach] when the total size of the attached images and movies exceeds 4 MB. If this happens, reduce the number of attached pictures or movies.

The selected picture is displayed in the [Compose E-mail] window.

4 Select [Send] to send the mail.



[Send]

**Tip**

When attaching multiple pictures, the picture selected first appears in the [Compose E-mail] window.

**Notes**

- If you specify too many addresses in the [To], [Cc], or [Bcc] field, the LocationFreeTV may not send mail even when the total size of attached pictures is less than 4 MB.
- Outgoing mail will show the file names, and not the picture names, to recipients.
- It may take time to send or receive mail with attached pictures or movies if the attachment is large.

**Verifying attached pictures**

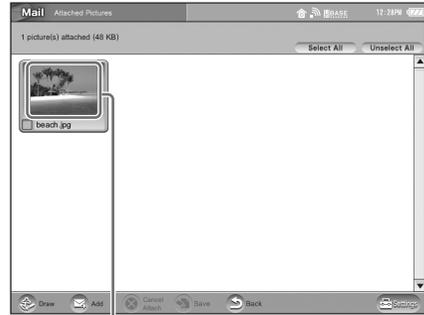
1 Select an attached picture in the [Compose E-mail] window.



Select this.

The list of attached pictures and movies appears.

2 Select the picture you want to verify.



Select a picture.

The picture is enlarged.

When sending multiple pictures, you can select [Next] or [Prev.] to sequentially enlarge other pictures and movies.

3 Select [Back].

The list of attached pictures reappears.

4 Select [Back].

The [Compose E-mail] window reappears.

**Attaching multiple pictures**

You can send multiple pictures and movies at the same time.

1 Open the list of attached pictures.

2 Select [Add].

The picture selection window appears.

3 Select the check box for the picture or movie to be added.

4 Select [Attach].

The selected picture or movie is added to the end of list of attached pictures.

5 Select [Back].

The [Compose E-mail] window reappears.

**Removing attached pictures**

1 Open the list of attached pictures.

2 Select the check box for the picture or movie to be removed.

- 3 Select [Cancel Attach].  
The message “Removing this picture from the attachment. Continue?” appears.
- 4 Select [OK].  
The list of attached pictures reappears. The picture or movie has been removed from the list.
- 5 Select [Back].  
The [Compose E-mail] window reappears.

## Attaching a Drawing

- 1 Enter the subject, text, and recipient of the mail.
- 2 Select [Draw].



[Draw]

The [Draw] window appears.

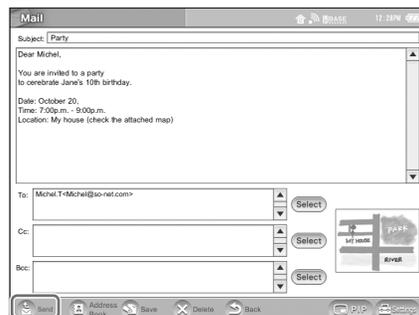
- 3 Draw pictures and/or text, then select [Attach].



[Attach]

For more on drawing pictures and text, see “Using the Drawing Palette” (page 109). The picture you drew appears in the [Draw] field on the [Compose E-mail] window.

- 4 Select [Send] to send the mail.



[Send]

### Tip

You can verify and remove attached drawings in the same way as for attached pictures and movies (page 90).

## Attaching multiple drawings

You can create and attach multiple drawings to send with your mail. A drawing can also be attached along with picture or movie attachments.

- 1 Create a drawing or attach a picture.
- 2 Open the list of attached pictures.
- 3 Select [Draw].  
The [Draw] window appears.
- 4 Create a drawing, and select [Attach].  
The drawing appears at the beginning of the list of attached pictures.
- 5 Select [Back].  
The [Compose E-mail] window reappears.

## Saving a drawing in the Photo Album

- 1 Open the list of attached pictures.
- 2 Select the check box for the drawing you want to save.

- 3 Select [Save].  
The drawing is saved in the album.

**Tip**

When you select [Save] with a “Memory Stick” inserted (for the LF-X1) or a CompactFlash card inserted (for the LF-X5), the message “Select a place to save.” appears. Select a location, then select [OK].

# Reading, Replying to, and Forwarding Mail

## Reading Mail

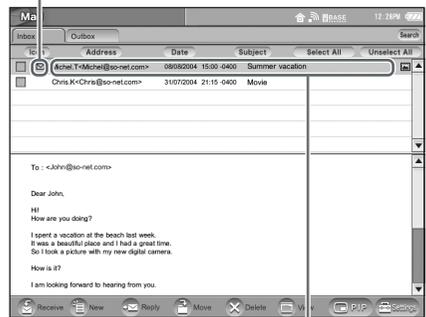
- 1 Select [Receive].

The Inbox window appears. The  icon appears beside any new mail in the Inbox.

**Notes**

- The  indicator (LF-X1 only) on the left side of the monitor is disabled while the Inbox is open. The LocationFreeTV can periodically check for new mail (see page 43). With this function activated, the mail indicator on the left side of the monitor lights red only when you have new mail. This indicator is disabled when you receive new mail manually and when mail is automatically detected with the Mail window open. (Automatic mail detection is only available for the LF-X1.)
- This device cannot decrypt encrypted e-mail data.

- 2 Select a mail with the  icon beside it.  
New mail icon



Select this.

The content of the mail is displayed.

## Tip

When you open the Inbox, the  indicator goes off and the  icon disappears. (The  indicator is only available for the LF-X1.) When you are viewing other screens on the LocationFreeTV, this indicator is enabled and lights up when new mail is automatically detected.

## Notes

- It may take time to finish receiving a mail if it comes with an attachment, such as a picture.
- The  icon appears beside mail that falls into the following categories:
  - Mail with an attached file that cannot be opened on the LocationFreeTV
    - Forward the mail to a computer to open the attached file.
  - Mail in HTML format
    - Select the HTML mail. The mail is displayed in the Web window.

## Displaying mail in full-screen mode

Select the mail you want to display, then select [View].

## Deleting mail

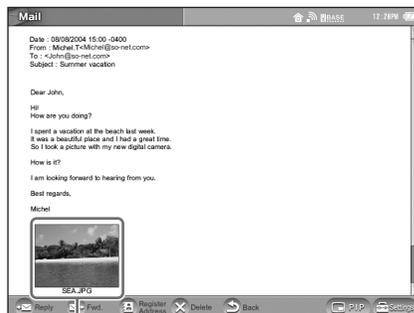
Select the mail to be deleted, then select [Delete]. Or, select the check box beside the mail to be deleted, then select [Delete selected].

## Following links in mail

If you select a link in a mail, the corresponding web page opens in the Web window.

## Enlarging an attached picture

To enlarge a picture sent with a mail, select the picture. To restore the previous display, select [Back].



Select this.



## Note

If you receive an attached movie with a mail, a movie mark appears in the Mail window. Select the icon to play the movie.

## Saving an attached picture in the Album

Select an attached picture to enlarge it, then select [Save]. The picture is saved in the Album.

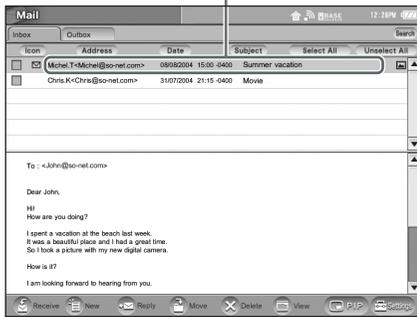
## Tip

When you select [Save] with a “Memory Stick” inserted (for the LF-X1) or a CompactFlash card inserted (for the LF-X5), the message “Select a place to save.” appears. Select a location, then select [OK].

## Replying to Mail

- 1 Open the Inbox window and select the mail you want to reply to.

Select this.



The content of the mail is displayed.

- 2 Select [Reply]. The original message is quoted in the body of a new mail.

### Replying to multiple recipients

When the original mail has been sent to multiple recipients, a message appears asking who you want to reply to. You can select to reply to all recipients or to the original sender only. Select [Reply all], then select [OK].



### Tip

To reply to the sender of the original mail only, select [Reply to the sender] instead of [Reply all]. If you want to eliminate a specific person from the recipients after selecting [Reply all], highlight the entire mail address of that person in the [To] or [Cc] field, then select [Backspace] on the on-screen keyboard. You can also add other mail addresses to the [To], [Cc], or [Bcc] field.

- 3 Compose the text of your reply.

### Tip

For details on character entry, see “Entering Characters” (☞ page 116).

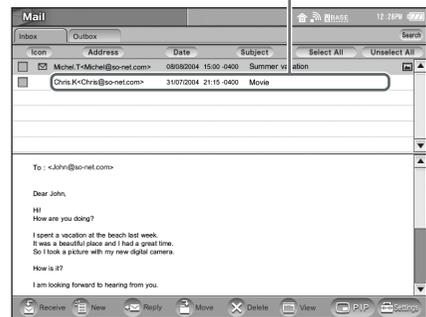
- 4 Check the text of your mail and the mail address of the recipient.

- 5 Select [Send].

## Forwarding Mail

- 1 Open the Inbox, then select the mail you want to forward.

Select this.



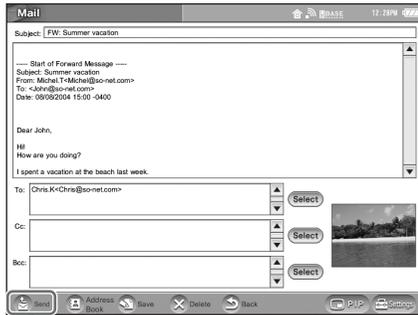
The content of the mail is displayed.

- 2 Select [View].

- 3 Select [Fwd.].

The [Compose E-mail] window for forwarding appears. The text and header information of the original mail has been automatically copied into this window. “FW:” is added in front of the original mail subject line. Use the on-screen keyboard to enter any additional text.

- 4 Enter the mail address of the recipient, and select [Send].



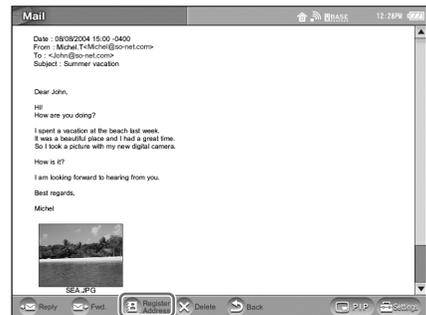
[Send]

## Using Mail: Useful Functions

### Using the Address Book

#### Adding addresses to the address book

- 1 Open the Inbox or Outbox, then select a sent or received mail that includes the address that you want to add to the address book.
- 2 Select [View], and display the mail in full screen mode. From the Outbox, you can only add addresses from mail you have finished sending.
- 3 Select [Register Address].



[Register Address]

The address registration window appears with the address field automatically filled in.

#### Tip

With a received mail displayed, the mail address of the sender is added to the Address Book. With a previously sent mail displayed, all mail addresses displayed in the [To], [Cc], and [Bcc] fields are added to the list; this allows you to add multiple addresses at one time.

- 4 Enter a nickname for the mail address in the [Alias Name] field, then select [OK].



[OK]



**Tip**

For details on character entry, see “Entering Characters” (page 116).

The Mail window shown in step 1 reappears.

**Entering addresses directly in the Address Book**

- 1 Open the [Compose E-mail] window, and select [Address Book].  
The [Address Book] window appears.
- 2 Select [New].  
The address registration window appears.
- 3 Enter a nickname for the mail address in the [Alias Name] field.



**Tip**

For details on character entry, see “Entering Characters” (page 116).

- 4 Enter a mail address in the address field, and select [OK].  
To register multiple mail addresses under the same nickname, separate each address with a comma (,).



**Tip**

For details on character entry, see “Entering Characters” (page 116).

**Editing the address book**

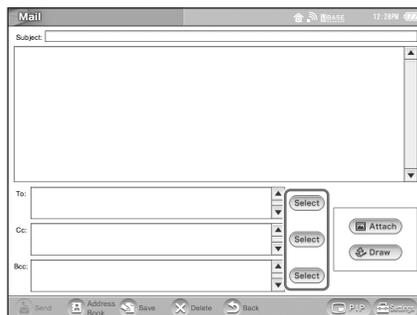
- 1 Open the [Address Book] window, select the check box beside the mail address you want to edit, and select [Edit].  
The address edit window appears.
- 2 Edit the individual fields as necessary, and select [OK].

**Deleting addresses from the Address Book**

Open the [Address Book] window, select the check box beside the mail address you want to delete, and select [Delete].

**Selecting a recipient from the Address Book**

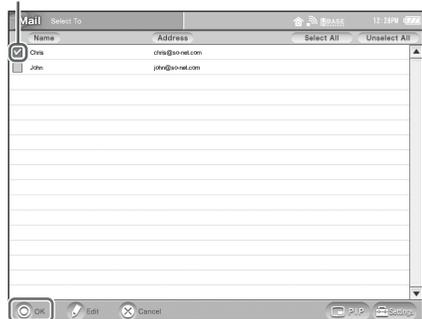
- 1 Open the [Compose E-mail] window, then select [Select] to the right of the address fields.



The [Address Book] window appears.

- 2 Select the check box beside the desired mail address, then select [OK].

Select this check box.



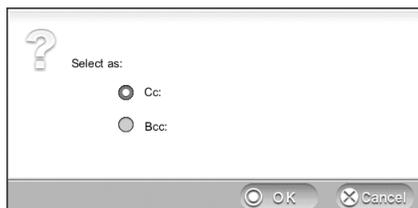
OK

The selected mail address is entered into the address field in the [Compose E-mail] window.

### Tip

You can also open the [Address Book] window, select the check box beside the desired mail address, and then select [To] or [Cc/Bcc]. This displays the [Compose E-mail] window with the mail address field in.

If you have selected [Cc/Bcc], the message “Select as:” appears. Select an option.



## Moving Mail to “Memory Stick” or CompactFlash Card

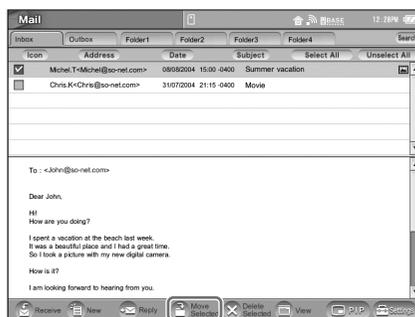
You can organize saved mails by moving them to the Folders on a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5).

- 1 Insert a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5). The Folder tab appears in the Mail window.

### Tip

You cannot increase the number of Folders.

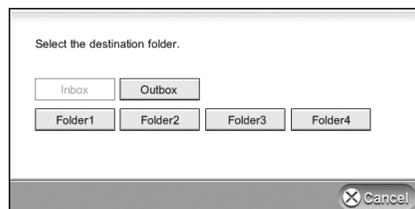
- 2 Open the Inbox or Outbox.
- 3 Select the check box beside the mail you want to move, then select [Move selected].



[Move selected]

A message appears.

- 4 Select a destination folder.



The selected mail is moved to the folder on the “Memory Stick” (LF-X1) or the CompactFlash card (LF-X5).

### Note

Do not remove the “Memory Stick” (LF-X1) or the CompactFlash card (LF-X5) or turn the LocationFreeTV off while mail is being moved to the folder. Doing so may cause your mail to be damaged or lost.

## Renaming a folder

- 1 Select [Settings] at the right bottom of the screen. The [Settings] window appears.

2 Select [E-mail].  
The [E-mail] window appears.

3 Select [Folder].  
The [Folder] window appears.  
You cannot select this unless a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5) is inserted.

4 Select the folder that you want to rename, change the name, and select [OK].  
The [E-mail] window reappears.



**Tip**  
For details on character entry, see “Entering Characters” (☞ page 116).

5 Select [Settings].  
The [Settings] window reappears.

6 Select [Exit].



**Tip**  
To view mail saved in a folder with your computer, access the “LFXmailx” folder (where x is an arbitrary number) on the “Memory Stick” (LF-X1) or CompactFlash card (LF-X5). If you edit a mail on your computer, note that it may be deleted when you insert the “Memory Stick” (LF-X1) or CompactFlash card (LF-X5) into the LocationFreeTV.

## Auto-checking for New Mail (LF-X1 Only)

The unit can periodically check if you have new mail. For more on configuring this option, see “Setting Up Mail” (☞ page 43). This function is only available for the LF-X1.



**Tip**  
Automatic mail detection is performed at any time, even while you are watching TV and browsing web pages.

## Configuring Other Mail Settings

You can specify the font size of a mail on the screen, or save a signature (information such as your name and mail address). By saving a signature, you can automatically add your contact information at the end of a mail, which saves you the task of entering your name, address, etc. each time you compose a mail.

Perform font size and signature settings in [Settings] under [E-mail]. Settings made with [Character Code] under [Web] - [Web Basics] (☞ page 82) are also applied here.

## Searching for Mail

You can search for mail in your Inbox, Outbox, or on a “Memory Stick” folder for the LF-X1, a folder of the CompactFlash card for the LF-X5. This function allows you to locate text in your e-mail easily and to select several messages to move or delete at once. When mail is moved or deleted from the search results, moreover, it is also moved or deleted from its original location.

1 Open the Inbox, Outbox, or a folder, and select [Search].  
The mail search window appears.

2 Enter a character string in the [Word] field, specify search parameters, and select [Search].

Enter a character string in this field.

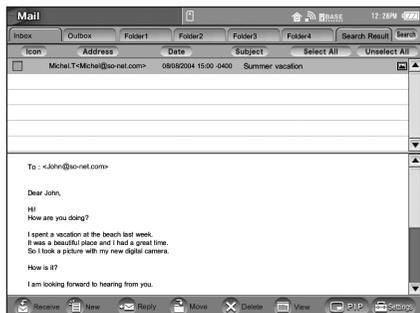


Specify search parameters.



**Tip**  
For details on character entry, see “Entering Characters” (🔗 page 116).

When the search is finished, a search result tab appears, and the list of matching mail is displayed.



## Setting an E-mail Protection Password

You can set an e-mail protection password to prevent other people from reading your mail on the LocationFreeTV. This section explains how to set a password for the first time. You can also change your password using the same procedure.

### Note

Be careful not to forget your password. If you forget the password, you must reinitialize your mail settings (🔗 page 136), which deletes all mail data.

**1** Select [Settings] at the bottom right of the screen.

The [Settings] window appears.

**2** Select [E-mail].

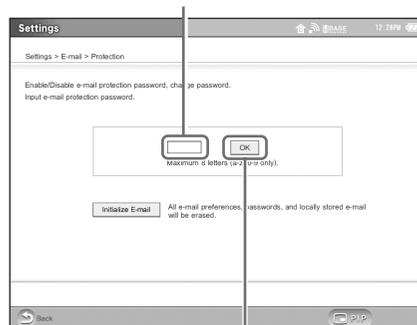
The [E-mail] window appears.

**3** Select [Protection].

The [Protection] window appears.

**4** Enter a password, then select [OK].  
The factory preset password is 0000.

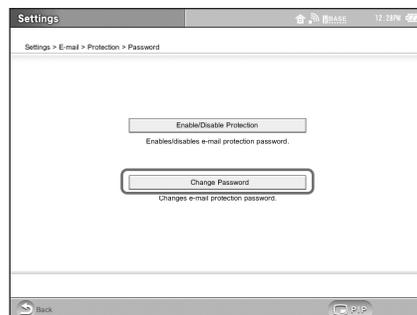
Enter a password.



[OK]

The [Password] window appears.

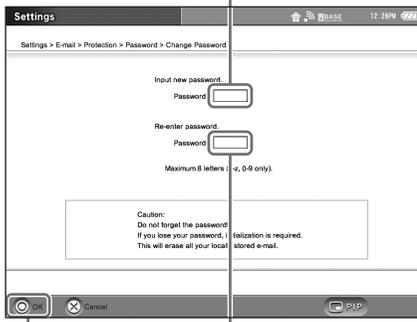
**5** Select [Change Password].



The [Change Password] window appears.

- .....
- 6** Enter a password using up to eight letters and numbers, and select [OK].  
You cannot use capital letters.  
For confirmation, enter the same password again.

Enter a password.



[OK] Enter the same password again.

The security password setting window shown in step 5 reappears.

- .....
- 7** Select [Enable/Disable Protection].  
The [Enable/Disable Protection] window appears.

- .....
- 8** Select [Enable Protection], then select [OK].  
The security password setting window reappears.

- .....
- 9** Select [Back].  
The [E-mail] window reappears.

- .....
- 10** Select [Settings], then select [Exit].  
After a password has been set, you must enter it each time you turn on the monitor and open the [E-mail] window. Once you enter the password, you do not need to reenter it until you turn the monitor on again.
- .....





# Album

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| Viewing Images in the Album .....  | page 105 |
| Displaying the Album.....  | page 105 |
| Viewing Enlarged Pictures .....  | page 106 |
| Viewing a Slide Show.....  | page 107 |
| Drawing on the Screen .....  | page 108 |
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| Sending a Picture by Mail.....   | page 111 |
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# Using the Album Window



- 1** Album indicator
- 2** Album tab (Internal storage)  
Shows the list of pictures saved on internal storage.
- 3** Album tab (For “Memory Stick” (LF-X1)/ CompactFlash (LF-X5)), Folder tabs  
Appear when the “Memory Stick”/ CompactFlash card is inserted. Allow you to copy saved pictures to “Memory Stick”/ CompactFlash card.
- 4** Select All/Unselect All  
[Select All]: Selects the check boxes for all pictures in the tab.  
[Unselect All]: Clears the check boxes for all pictures in the tab.
- 5** Picture or Movie  
Select to enlarge pictures and play back movies.
- 6** Sort buttons  
Allow you to sort pictures by name or date last modified. Each time you touch the same sort button, sorting is switched between ascending and descending order.
- 7** Check box  
A check mark is added or removed from this box each time you select it.
- 8** Slide Show (☞ page 107)  
Sequentially displays all pictures in the tab or all pictures with check marks.
- 9** Draw (☞ page 108)  
Allows you to draw pictures and/or text.
- 10** Send (☞ page 111)  
Attaches a picture with a check mark to e-mail.
- 11** Info. (☞ page 113)  
Allows you to change the name of a picture with a check mark, enlarge picture, play movie, and rotate image. Shows information such as image file size, creation date, and date last modified.
- 12** Copy (☞ page 112)  
Copies pictures with check marks to or from a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5).
- 13** Delete  
Deletes pictures with check marks.
- 14** Settings  
Displays the [Settings] window. Select [Album] in the [Settings] window to configure album settings, such as renaming a folder on a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5).

# Viewing Images in the Album

## Displaying the Album

The Album displays in a list the pictures stored on a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5).

**Note**

The sub-screen is not available when the Album window is open. (LF-X1 only)

.....

Open the [Index] window, and select [Album].



The [Picture List] window appears.



.....

## Displaying pictures on a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5)

When a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5) is inserted into the slot on the monitor, “Memory Stick” (LF-X1) or CompactFlash card (LF-X5) tabs appear to the right of the [Local Folder] tab.

“Memory Stick” (LF-X1) or CompactFlash card (LF-X5)

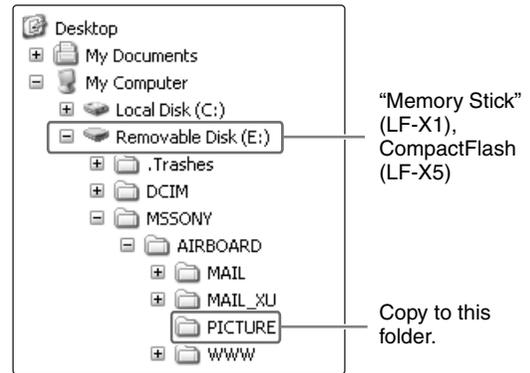


Album

**Tips**

- You can view pictures created on a computer with the album. Copy the pictures to the following folder on the “Memory Stick” (LF-X1) or CompactFlash card (LF-X5).

Example of a folder tree on a computer:



- If the “Memory Stick” (LF-X1) or CompactFlash card (LF-X5) does not contain the above folder, create it with the computer. To create the folder automatically, simply insert the “Memory Stick” (LF-X1) or CompactFlash card (LF-X5) into the monitor and open the [Picture List] window.
- If you copy pictures from the album to a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5), you can access these pictures from a computer in the folder shown above.

**Notes**

- Pictures taken with a digital camera (such as the DSC-T1/P100) in the mail mode appear twice when displayed in the [Picture List] window. When enlarged, however, they display at different sizes. Be sure not to delete the larger of the two, because the

picture will no longer display when the “Memory Stick” (LF-X1) or CompactFlash card (LF-X5) is returned to the digital camera.

- When the memory on the LocationFreeTV is full, the  icon may appear for movies in the [Picture List] window instead of the movie’s first frame.
- Pictures recorded in accordance with the DCF (Design rule for Camera File system) specifications can be viewed on the LocationFreeTV.
- The  icon appears to the right of original (unmodified) pictures taken with a digital still camera or other equipment using a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5).

## Viewing Enlarged Pictures

- 1 Select the picture to be enlarged.  
Do not select the check box by the picture.

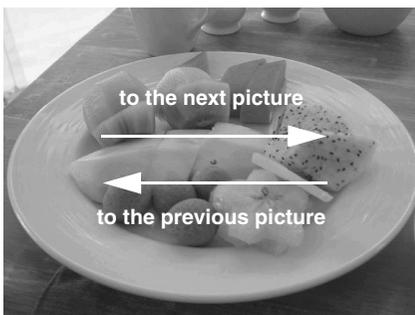
Select an picture.  
(Do not select the check box.)



The picture is enlarged.

### Note

It may take several seconds to display some pictures. You cannot perform other operations while waiting for a picture to display.



### Note

The aspect ratio of a picture taken by a digital camera is usually 4:3, and the picture does not occupy the entire screen when viewed on the LF-X5.

- 2 Touch the picture again to close the enlarged display.  
The [Picture List] window reappears.

### Tip

You can also press INDEX on the monitor to return to the [Picture List] window.

## Stretching a small picture to full-screen (LF-X1 only)

When the size of a picture is smaller than the screen size, the LocationFreeTV displays the picture at its original pixel size.

By following the steps below, you can set the LocationFreeTV to enlarge 640 x 480 size pictures to full screen.

### Notes

- The smaller a picture is, the poorer its image quality becomes when stretched to full-screen size.
- A picture drawn on the LF-X1 has a size of 640 × 480 pixels, and a picture drawn on the LF-X5, 512 × 384 pixels. So, when a picture drawn on one model of the LocationFreeTV is displayed on the other model, it may look slightly different.

- 1 Select [Settings] at the bottom right of the screen.  
The [Settings] window appears.
- 2 Select [Album].
- 3 Select the check box beside [Show 640 × 480 pictures in full screen. e.g. drawing] at the bottom of the screen.

## Viewing a Slide Show

- 1 Open the [Picture List] window, clear the check boxes for all pictures, and select [Slide Show].



[Slide Show]

All the pictures in the album are enlarged and displayed in order.

- 2 To quit the slide show, touch an enlarged image. The [Picture List] window reappears.

### Note

The slide show function skips large-sized (high quality) images that cannot be enlarged. If no picture in the album can be enlarged, you cannot start a slide show.

## Displaying selected pictures in a selected order

Select the check box for the desired slide show pictures in the order you want them to appear, and select [Slide Show]. The images you selected are displayed in the order you selected them.

### Note

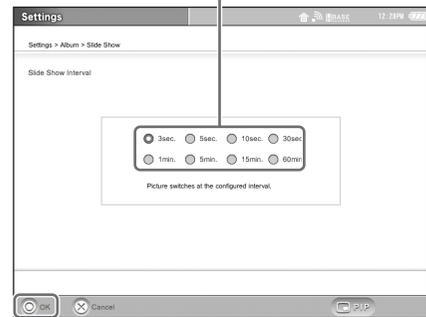
If you select only a single picture, the slide show keeps showing the same picture.

## Changing the slide show screen-change interval

You can change the amount of time that each picture appears using the [Settings] window.

- 1 Select [Settings] at the right bottom of the screen. The [Settings] window appears.
- 2 Select [Album].
- 3 Select [Slide Show]. The [Slide Show] window appears.
- 4 Select the interval, then select [OK].

Select an interval.



[OK]

### Notes

- If large-sized pictures are included in the album, it may take more time than the interval you selected to switch to the subsequent picture.
- Only the first frame of movies or animated GIFs is displayed in the slide show.

# Drawing on the Screen

You can draw pictures and text on saved images or a blank white screen and save your creations in the album.

- 1 Open the [Picture List] window, select the check box of a single picture, and then select [Draw].  
The selected picture is enlarged in the [Drawing] window.  
If you want to draw on a blank screen, make sure to clear the check boxes for all pictures in the tab before selecting [Draw].

## Note

If you have selected the check boxes for multiple pictures, you cannot select [Draw].

## Tip

Images appear with a blank space surrounding them in the following cases:

- The aspect ratio of the original image is not 4:3.
- The original image size is smaller than the [Drawing] screen size.

The [Drawing] screen size is 640 × 480 pixels for the LF-X1, and 512 × 384 pixels for the LF-X5.

- 2 Draw pictures or text, using the drawing palette at the right of the screen.

Drawing palette



For the LF-X5, these buttons are categorized in the [Effect] tab.

For more on using the drawing palette, see “Using the Drawing Palette” (📖 page 109).

- 3 When you finish drawing, select [Save].  
The [Picture List] window reappears.  
The modified image is saved in the JPEG format as a different image and added to the beginning of the album.

## Saving a drawing in progress

Select [Hold] at the bottom of the [Drawing] window. When you decide to continue editing, you can display the saved image by selecting [Return to hold] at the bottom of the window.

## Starting from scratch

Select [Restart] at the bottom of the [Draw] window. The original image is restored and you can start drawing from scratch.

Images photographed or created by other people cannot be used for purposes other than personal enjoyment without the permission of their copyright holders.

# Using the Drawing Palette

## Pen panel

The display examples shown below are for the LF-X1. For the LF-X5, the actual screens will differ.

### To draw pictures or text

- 1 Select the type of pen.
- 2 For [Width], select the width of the pen tip.
- 3 Select the color you want to use from the color palette and it appears in the [Color] box.
- 4 Draw pictures or text on the screen.

#### Note

If you select the black frame of the color palette, the [Color] box turns black.

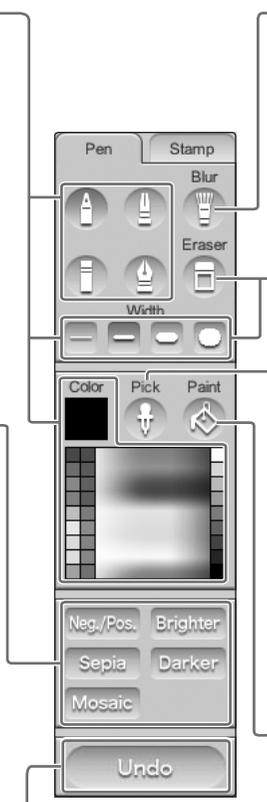
### To apply effects

You can apply effects to the entire image.

- [Brighter]: Brightens the image.
- [Darker]: Darkens the image.
- [Neg./Pos.]: Reverses the colors of the image.
- [Sepia]: Applies a sepia tone to the image.
- [Mosaic]: Applies a mosaic filter to the image. With each press (up to 10 times), the mosaic becomes more intense. Pressing here 11 times restores the original image.

### To undo an operation

Select [Undo].  
The last operation you performed on the image is undone.



### To blur an image

Select [Blur], then use the stylus to select the area you want to blur.

### To erase pictures or text

- 1 Select [Eraser].
- 2 For [Width], select the width of the eraser.
- 3 Use the stylus to select the area you want to erase.

### To pick a color from an image

- 1 Select [Pick].
- 2 On the image, touch the color you want to use.  
The [Color] box turns the color you touched, and you can draw with that color.

### To paint an entire area

You can paint in the entire area enclosed by a shape, such as a circle or polygon.

- 1 Using the pen, draw the shape you want to paint in.
- 2 Select [Paint].
- 3 Select the inside of the shape.  
The entire shape is painted the color in the [Color] box.

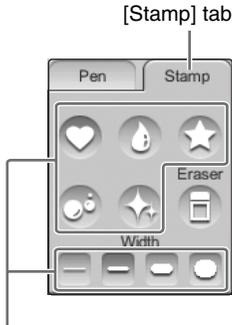
#### Note

The entire screen (not just the shape) is painted when:

- You have not closed the shape.
- You have changed the paint color after drawing a closed shape.
- You have used Stamp or Pastel to draw a shape.

## [Stamp] panel

There are five types of stamps you can use to make single marks or running patterns. The [Stamp] panel appears when you select the [Stamp] tab.



### To use stamps

- 1 Select the type of stamp you want to use.
- 2 For [Width], select the size of the stamp.
- 3 Select a color from the color palette to make it appear in the [Color] box.
- 4 Touch the screen with the stylus, or move the stylus on the screen.

## Watching Movies

You can play back movies saved in the album. The LocationFreeTV supports movies in the MPEG 1 format.

### Notes

- The LocationFreeTV can only play movies saved in the MPEG 1 format with the “mpg” extension.
- The unit cannot play movies exceeding 640 × 480 pixels. Movies shot with a Sony Cyber-shot or Handy Cam meet this requirement. The LocationFreeTV may not be able to play back movies created with a computer.
- Animated GIF images are displayed the same way as still images.
- Movies are played at their original size on the LocationFreeTV. The movie size is reduced during play, however, if it exceeds 640 × 480 (for the LF-X1) or 480 × 360 (for the LF-X5).

- 1 Open the [Picture List] window, and select the movie you want to play. Do not select the check box by the movie. The  icon appears to the right of movie titles. The [Play Movie] window appears and the movie automatically starts playing.



### Tips

- A slider bar shows the current playback position. You can change the playback position with this bar while a movie is playing or paused.
- For large-sized movies, playback speed may be slower than normal.
- The playback window goes dark when a movie ends with the [Play], [FF], or [Rew] operations.

- To play back a movie, you can also select its check box, select [Info.], and then select [Play Movie] in the [Information] window.

## Using the Album: Useful Functions

### Sending a Picture by Mail

You can select a picture from the album and send it to someone by mail.

- 1 Open the [Picture List] window, select the check box of the picture you want to attach to the mail, and select [Send].  
You can send multiple picture by selecting multiple check boxes.



check box

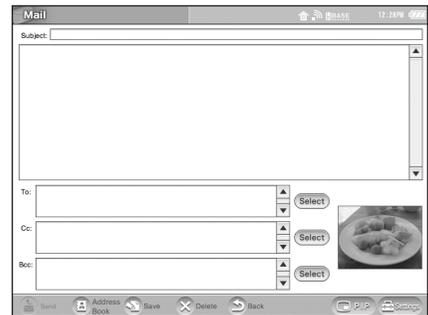
The [Compose E-mail] window appears.

#### Note

The  icon appears to the right of pictures that exceed 4 MB to indicate that you cannot attach and send them. For movies, the  icon appears. An error message appears if you select [Attach] when the total size of the attached pictures and movies exceeds 4 MB.

You can check image file sizes in the [Information] window ( page 113).

When you have attached multiple pictures, the picture that you attached first is displayed in the [Compose E-mail] window.



**Tip**

To check the other pictures you have attached, select the blue-framed picture in the [Compose E-mail] window to open the [Attached Pictures] window.

- 2 Compose and send the mail (☞ page 89).

## Copying Pictures to a “Memory Stick” (LF-X1) or a CompactFlash Card (LF-X5)

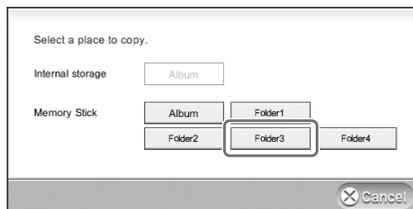
- 1 Insert a “Memory Stick” (LF-X1) or CompactFlash card (LF-X5) into the slot on the monitor.
- 2 Open the [Picture List] window with the pictures you want to copy.
- 3 Select the check boxes for the desired pictures, and select [Copy].



Copy

A message appears asking you to select a copy destination.

- 4 Select a copy destination.  
Example: If you want to copy to Folder 3 on the “Memory Stick” (LF-X1) or CompactFlash card (LF-X5), select [Folder 3].



To check that the pictures have been copied, open the [Picture List] window for the destination folder.

## Renaming folders on a “Memory Stick” (LF-X1) or CompactFlash card (LF-X5)

- 1 Select [Settings] at the bottom right of the screen.  
The [Settings] window appears.
- 2 Select [Album].  
The [Album] window appears.
- 3 Select [Folders].  
The [Folders] window appears.  
\* You cannot select this button unless a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5) is inserted.
- 4 Select the entry field to the right of the folder you want to rename, change the name, and select [OK].  
The [Settings] window reappears.
- 5 Select [Exit].

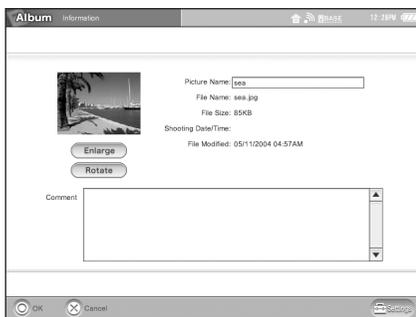
## Displaying Picture Information

- 1 Open the [Picture List] window, select the check box for a single picture, and select [Info.].

### Note

If you have selected the check boxes for multiple pictures, you cannot select [Info.]. Be sure to select only one check box and leave the others clear.

The [Information] window appears.



### Tips

- Selecting [Picture Name] allows you to change the picture name. Changing the picture name does not change the file name.
- Shooting Date/Time appears only for pictures taken with digital still cameras.
- Web page URL appears only when [Capture the whole page] is selected under Web. It does not appear when other images are captured.
- Use the [Comment] field to enter information (up to 560 characters) about the picture. Entered information can only be viewed from the LocationFreeTV.

- 2 Select [OK].  
The [Picture List] window reappears.

### Tips

- You cannot rotate movies or animated GIF images.
- Rotated images only appear rotated on the LocationFreeTV. Other equipment displays the image with its original orientation.





# Entering Characters

|   |          |
|---|----------|
| Entering Characters .....                     | page 116 |
| Using the On-screen Keyboard .....            | page 117 |
| Using an External Keyboard (LF-X1 only) ..... | page 119 |

# Entering Characters

When you select an entry field to compose mail or to configure various settings, the on-screen keyboard appears. Using the stylus, you can type text by touching the appropriate keys.

This section describes how to enter characters, using the [Compose E-mail] window as an example. You can use the same procedure to type text in other windows.

- 1 Open the [Compose E-mail] window (☞ page 89), and select an entry field. The on-screen keyboard appears. For the LF-X5, the keyboard input screen appears.

- 2 Using the stylus, select the character you want to type. The selected character appears in the entry field.



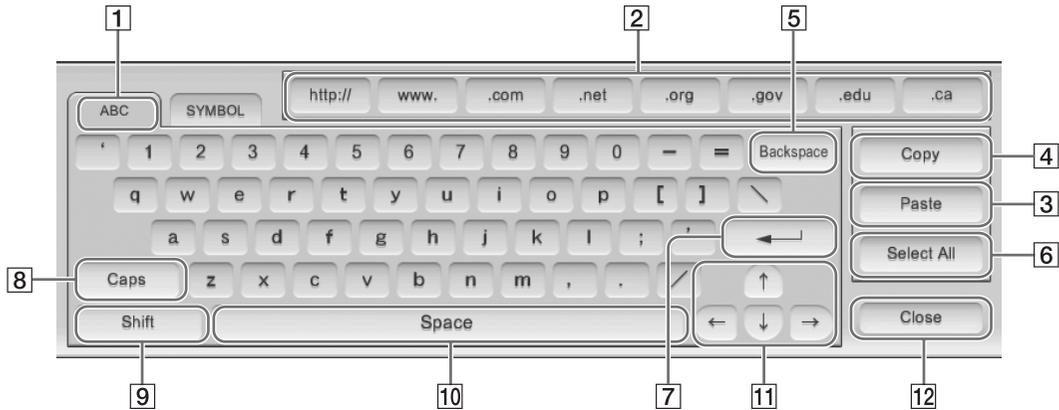
- 3 After typing the desired text, select [Close]. The on-screen keyboard disappears and the previous window reappears. For the LF-X5, select [Exit] instead of [Close].

## Tips

You can also connect and use an external keyboard (not supplied). (☞ page 119)

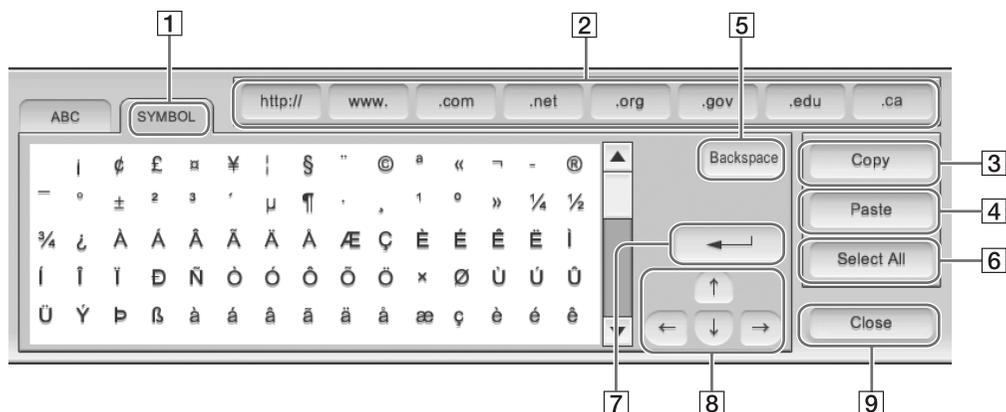
# Using the On-screen Keyboard

## Alphabetic keyboard



- |   |  |
|---|--|
| <p><b>1</b> Alphabetic keyboard<br/>Displays the alphabetic keyboard.</p> <p><b>2</b> Shortcuts<br/>Use to quickly type a web page or e-mail address.<br/>Displays the following shortcut strings:<br/>http://, www., .com, .net, .org, .gov, .edu., .ca</p> <p><b>3</b> Paste<br/>Pastes copied characters.</p> <p><b>4</b> Copy<br/>Copies selected characters.</p> <p><b>5</b> Backspace<br/>Deletes the character to the left of the cursor (l) or highlighted characters.</p> <p><b>6</b> Select All<br/>Selects all characters in an entry field.</p> <p><b>7</b> Enter<br/>Begins a new line.</p> <p><b>8</b> Caps<br/>Displays the capital letter keyboard.</p> <p><b>9</b> Shift<br/>Displays the capital letter keyboard temporarily. After one letter is typed, the alphabetic keyboard reappears.</p> <p><b>10</b> Space<br/>Inserts a space.</p> | <p><b>11</b> ↑/↓/→/←<br/>Moves the cursor.</p> <p><b>12</b> Close<br/>Closes the on-screen keyboard.<br/>For the LF-X5, the on-screen keyboard returns to the original screen by selecting [Exit].</p> |
|---|--|

## Symbol keyboard

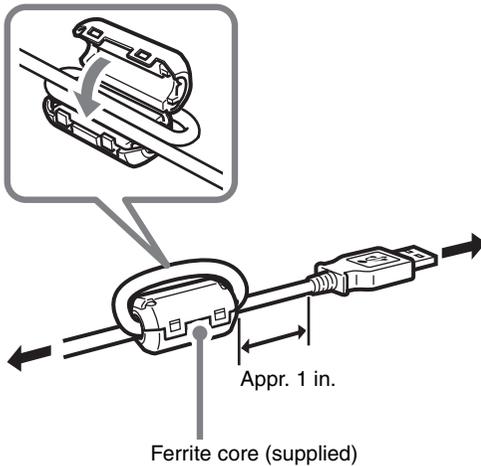


- 1** Symbol  
Displays the symbol keyboard.
- 2** Shortcuts  
Use to quickly type a web page or e-mail address.  
Displays the following shortcut strings:  
http://, www., .com, .net, .org, .gov, .edu., .ca
- 3** Copy  
Copies selected characters.
- 4** Paste  
Pastes copied characters.
- 5** Backspace  
Deletes the character to the left of the cursor (l) or highlighted characters.
- 6** Select All  
Selects all characters in an entry field.
- 7** Enter  
Begins a new line.
- 8** ↑/↓/→/←  
Moves the cursor.
- 9** Close  
Closes the on-screen keyboard.  
For the LF-X5, the on-screen keyboard returns to the original screen by selecting [Exit].

# Using an External Keyboard (LF-X1 only)

You can connect an external keyboard (not supplied) to the USB port on the right side of the monitor. With an external keyboard connected, the on-screen keyboard does not appear. Note that some keyboards may not work with the LocationFreeTV.

- 1 Connect the external keyboard. Connect an external keyboard (not supplied) to the USB port on the right side of the monitor (☞ page 10). When connecting an external keyboard, be sure to attach the ferrite core as shown below.



## Note

- You cannot connect and use a keyboard that only has a PS/2 connector.
- You cannot connect and use a keyboard equipped with a USB hub.
- Do not connect a keyboard to the USB port on the base station.

## Using an External Keyboard (LF-X1 only)

- 2 Select an entry field with the stylus and enter characters with the connected keyboard. To move to another entry field, use the stylus to select the new field or tab.

| External Keyboard Key | Key function                          |
|-----------------------|---------------------------------------|
| Esc                   | Quit text entry                       |
| Tab                   | Switch to next entry field.           |
| Ctrl + A              | Select all                            |
| Ctrl + X              | Cut                                   |
| Ctrl + C              | Copy                                  |
| Ctrl + V              | Paste                                 |
| Shift + ←/↑/→/↓       | Highlight in the direction indicated. |





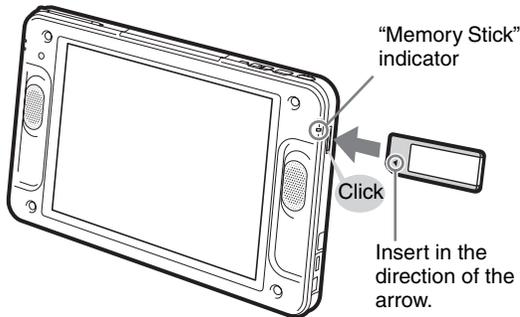
# Memory Stick (LF-X1)/ CompactFlash (LF-X5)

|  |          |
|--|----------|
| Using a “Memory Stick” (LF-X1 Only) .....            | page 122 |
| Supported Media Types .....                          | page 122 |
| “Memory Stick” Media .....                           | page 123 |
| Using a CompactFlash Card (LF-X5 Only).....          | page 124 |
| Initializing a “Memory Stick”/CompactFlash Card..... | page 126 |

# Using a “Memory Stick” (LF-X1 Only)

## Inserting a “Memory Stick”

Insert a “Memory Stick” in the slot on the right of the monitor until you hear it click.

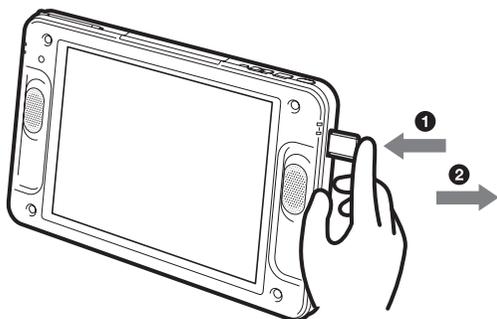


**Tip**

The “Memory Stick” indicator lights orange when data is transferred between the LocationFreeTV and the “Memory Stick”.

## Removing the “Memory Stick”

Slightly push the “Memory Stick” inward **1**, and then remove it **2**.



### Notes

- Never remove the “Memory Stick” or turn off the power when:
  - The “Memory Stick” indicator is lit orange.
  - Mail or other data is being transferred to the “Memory Stick”.
  - Images or other data are being copied to the “Memory Stick”.
  - Data on the “Memory Stick” is being deleted.
  - The “Memory Stick” is being initialized.
  - Mail or other data on the “Memory Stick” is being printed.
- Data on the “Memory Stick” may be damaged if:
  - During data transfer, you remove the “Memory Stick” from the LocationFreeTV, turn off the power to the monitor, remove the AC power adapter, or the battery runs out. (The “Memory Stick” indicator lights orange during data transfer.)
  - You use the “Memory Stick” in a location affected by static charge and/or electric noise.

## Supported Media Types

The following media types can be used with the LocationFreeTV.

| “Memory Stick” type   | Read/Write        |
|---|-------------------|
| Memory Stick  | Yes               |
| Memory Stick (with memory select function)                                      |                   |
| Memory Stick Duo* <sup>2</sup>  |                   |
| Memory Stick (Magic Gate/High-speed data transfer compatible)                   | Yes* <sup>1</sup> |
| Memory Stick Duo* <sup>2</sup> (Magic Gate/High-speed data transfer compatible) |                   |
| Magic Gate Memory Stick   | Yes* <sup>1</sup> |
| Magic Gate Memory Stick Duo* <sup>2</sup>                                       |                   |
| Memory Stick PRO  | Yes* <sup>1</sup> |
| Memory Stick PRO Duo* <sup>2</sup>  |                   |

\*<sup>1</sup> MagicGate cards can be used but the MagicGate function is not supported.

\*<sup>2</sup> A Memory Stick Duo adapter is needed to use Memory Stick Duo.

### Notes

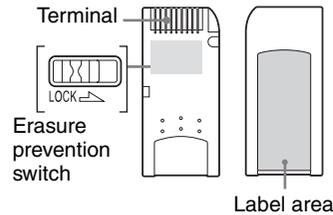
- There is no assurance that the LocationFreeTV will work with all Memory Stick media.

- The LocationFreeTV supports Memory Stick sizes up to 1 GB. Operation with Memory Stick PRO media having higher capacity is not guaranteed.

## “Memory Stick” Media

### Notes on using “Memory Stick” media

- When you set the “Memory Stick” erasure prevention switch to “LOCK”, data cannot be recorded, edited, or deleted.



The position and shape of the write-protect switch may differ between the various types of “Memory Stick”.

- Do not remove the “Memory Stick” while it is reading or writing data.
- Data may be damaged if:
  - The “Memory Stick” is removed or the LocationFreeTV is turned off while reading or writing.
  - You use the “Memory Stick” in a location subject to the effects of static electricity or electric noise.
- We recommend that you back up important data recorded on the “Memory Stick”.
- Do not affix anything other than the supplied label to the “Memory Stick” label area.
- Affix the label so that it does not stick out beyond the label area.
- When storing or carrying a “Memory Stick”, keep it in its original case.
- Do not touch the terminal of the “Memory Stick” with anything, including your fingers or metallic objects.
- Do not strike, bend, or drop the “Memory Stick”.
- Do not disassemble or modify the “Memory Stick”.
- Do not allow the “Memory Stick” to get wet.
- Do not use or store the “Memory Stick” in locations subject to:
  - Extreme heat, such as in a closed car parked in the sun.
  - Direct sunlight.
  - Humidity or corrosive substances.

### About data

- When you set the “Memory Stick” erasure prevention switch to “LOCK”, data such as images and mails cannot be recorded, edited, or deleted. Be sure to unlock the switch before transferring or copying data on the LocationFreeTV to the

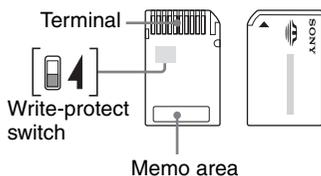
“Memory Stick”, or erasing data on the “Memory Stick”.

- We recommend that you make a backup copy of important data on another “Memory Stick” or on a hard disk using a computer.
- Mails copied from a computer to a “Memory Stick” cannot be viewed by using the mail function of the LocationFreeTV.

Data copied into the “mail\_x” folder (located in the “LocationFree” folder within the “mssony” folder) of a “Memory Stick” using a computer will be deleted when you insert the “Memory Stick” into the LocationFreeTV.

### Notes on using “Memory Stick Duo”

- Use a pointed object, such as a ballpoint pen, to move the “Memory Stick Duo” write-protect switch.
- Do not write forcefully on the “Memory Stick Duo” memo area.



### Notes on using the Memory Select function

- You cannot use multiple memory blocks simultaneously or continuously.
- Never operate the Memory Select switch when the “Memory Stick” is inserted in the slot of the LocationFreeTV, as it may cause damage. Sony Corporation assumes no liability for failure resulting from such operation.
- Make sure that the Memory Select switch is properly positioned to the side. When the switch is not positioned properly, the LocationFreeTV may be damaged or malfunction.
- Before inserting the “Memory Stick” in the slot of the LocationFreeTV, make sure that the memory you want to use is already selected.
- A “Memory Stick” with the Memory Select function allows the user to select the internal memory of the “Memory Stick” with the selector switch. Care must be taken in the following cases as the supported devices only detect the selected memory:
  - Formatting is only processed for the selected memory.
  - The remaining memory is only indicated for the selected memory.
  - Errors are only displayed for the selected memory and are detected separately from the unselected memory.

## Using a CompactFlash Card (LF-X5 Only)

Insert a CompactFlash card into the CompactFlash slot on top of the monitor. You can then view images stored on it, or save images on it.

You can also use other types of memory cards\* by using a CompactFlash adapter\*.

- \* Only the memory cards and the CompactFlash adapters that have been confirmed by Sony to operate normally can be used. You can find a list of confirmed memory cards and adapters at the following site:

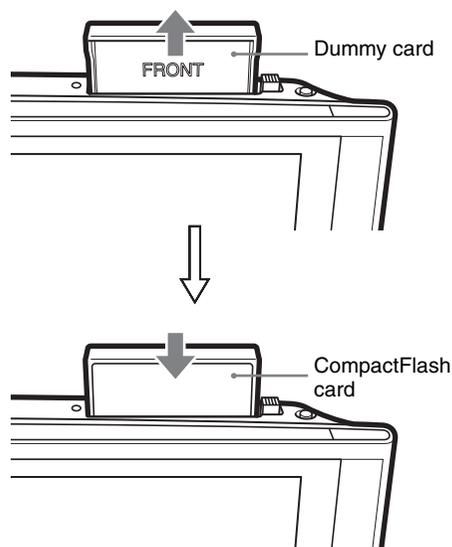
LocationFreeTV FAQ pages:  
<http://www.sony.com/locationfree/faq/>

### Inserting a CompactFlash card

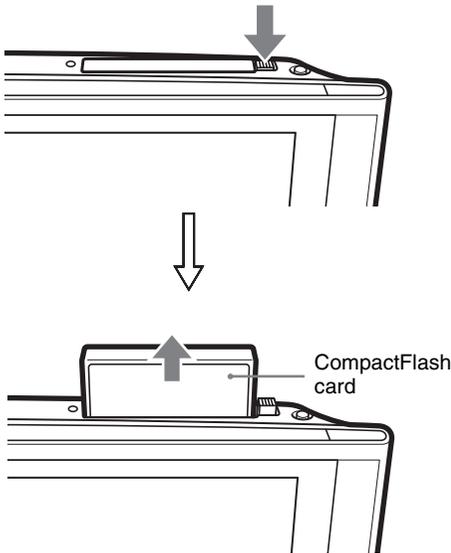
#### Note

A dummy card is inserted in the CompactFlash slot. Remove this dummy card before inserting a CompactFlash card.

Also, when reinserting the dummy card after using a CompactFlash card, make sure to insert it such that the side that says FRONT faces the monitor screen.



## Removing a CompactFlash Card



### Notes

- Never remove the CompactFlash card from the unit or turn off the power to the unit when:
  - The CompactFlash card indicator is lit orange.
  - Mail or other data is being moved to the CompactFlash card.
  - Images or other data are copying to the CompactFlash card.
  - Data on the CompactFlash card is being deleted.
  - The CompactFlash card is being initialized.
  - Mail or other data on the CompactFlash card is being printed.
- Data on the CompactFlash card may be damaged if:
  - During data transfer, you remove the CompactFlash card from the unit, turn off the power to the monitor, remove the AC power adapter, or the battery runs out. (The CompactFlash card indicator lights orange during data transfer.)
  - You use the CompactFlash card in a place affected by static charge and/or electric noise.

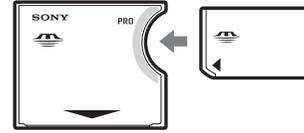
## Using a “Memory Stick Duo”

### Note

A standard-sized “Memory Stick” cannot be used.

When “Memory Stick Duo” is inserted into a Memory Stick Duo Adaptor, the size becomes the same as the CompactFlash card to allow use with the LF-X5.

- 1 Insert the “Memory Stick Duo” into the Memory Stick Duo Adaptor. Slide the “Memory Stick Duo” into the slot in the direction shown in the diagram.



- 2 Insert the Memory Stick Duo Adaptor into the CompactFlash slot of the LF-X5. With a “Memory Stick Duo” inserted into the Memory Stick Duo Adaptor, slide the unit fully into the CompactFlash slot of the LF-X5.

# Initializing a “Memory Stick”/ CompactFlash Card

Follow the procedure below to initialize a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5) using the LocationFreeTV.

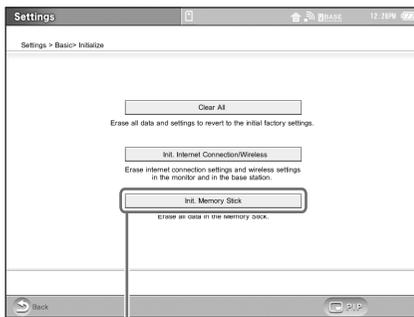
## Notes

- If you initialize a “Memory Stick”/CompactFlash Card with the LocationFreeTV, all data recorded on the “Memory Stick”/CompactFlash Card will be deleted, including data recorded by other devices.
- Do not initialize a “Memory Stick”/CompactFlash Card unless it is necessary.

**1** Open the [Settings] window, and select [Basic].  
The [Basic] window appears.

**2** Select [Initialize].  
The [Initialize] window appears.

**3** For the LF-X1, select [Init. Memory Stick].  
For the LF-X5, select [Init. CompactFlash].



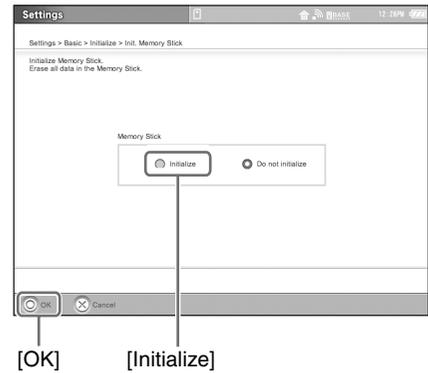
[Init. Memory Stick] (For the LF-X1)  
[Init. CompactFlash] (For the LF-X5)

## Note

Never remove the “Memory Stick” or CompactFlash card during initialization.

The [Init. Memory Stick] or [Init. CompactFlash] window appears.

**4** Select [Initialize], then select [OK].



## Note

Be sure to read the precautions shown on the screen.

A confirmation message appears.

**5** Select [OK].

**6** When the message “Initialization finished” appears, select [OK].

## Note

If you initialize a “Memory Stick”/CompactFlash card with other equipment, such as a computer, you may not be able to use it on the LocationFreeTV. If this is the case, transfer all data in the “Memory Stick”/ CompactFlash card to the other equipment, and then initialize the “Memory Stick” (LF-X1) or CompactFlash card (LF-X5) with the LocationFreeTV.

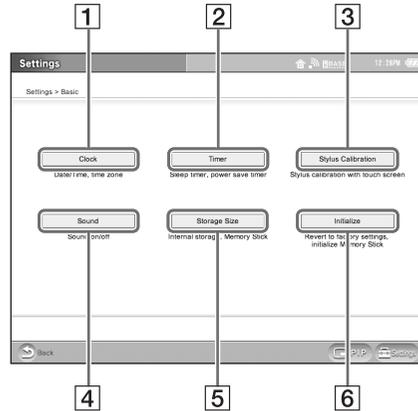


# Functions and Settings

|   |          |
|---|----------|
| Basic Settings.....   | page 128 |
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| Deleting Unwanted Channels.....                               | page 129 |
| Restoring a Deleted Channel Manually.....                     | page 129 |
| Changing the Wireless Channel Manually.....                   | page 131 |
| Using the Base Station as a Wireless Access Point. ....       | page 132 |
| What Is Wireless LAN? .....                                   | page 132 |
| Setting Up a Wireless LAN.....                                | page 133 |
| Resetting Factory Defaults .....                              | page 135 |
| Initializing the Base Station .....                           | page 135 |
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| Adjusting the Screen Backlight.....                           | page 137 |

# Basic Settings

Open the [Settings] window and select [Basic]. The [Basic] window appears. By selecting one of the options in the [Basic] window, you can perform the following settings.



- 1** Clock  
Sets the current date, time, and time zone. If the clock is not set correctly, some web pages may not display properly. Make sure to adjust the clock when it is incorrect. Also note that if you change the time zone and select [OK], the monitor will restart.

**Note**

The set time does not automatically shift to Daylight Saving Time. Select a time zone from the list and change to DST.

- 2** Timer  
Sets the Sleep Timer and Power Save Timer  
Sleep Timer: Sets the monitor to turn off automatically. If you leave home or fall asleep without turning off the monitor, this function turns it off automatically once the preset time (30, 60, or 90 minutes) has elapsed. (The base station does not turn off.) The Sleep Timer works even when using functions other than TV and video.

**Power Save Timer:**

Sets the Power Save Timer to activate and conserve battery power when you have not used the monitor for a while. When the timer activates, the monitor

backlight shuts off and the screen goes dark.

\* The Power Save Timer does not function while in use with the AC adapter.

- 3** Stylus Calibration  
Calibrates the touch screen and stylus. If the touch screen registers a different selection than where you indicate with the stylus, you can perform this calibration so selections register accurately.

**Note**

To select items on the screen, use only the stylus and do not use other objects such as a pen or a stick. Doing so can scratch the screen or cause it to crack.

- 4** Sound  
Turns on and off the operation beep that sounds when you operate the monitor.

- 5** Storage Size  
In addition to checking the available memory on the monitor, you can also check the memory on a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5).

- 6** Initialize (Ⓞ page 135)  
Allows you to return all settings to the factory defaults, to reset only the settings for the monitor or base station, and to initialize (format) a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5).

# Setting Up TV Channels Manually

Manually edit TV channels when:

- You want to delete a channel from those preset during automatic channel setup.
- You want to restore a channel deleted previously.

## Deleting Unwanted Channels

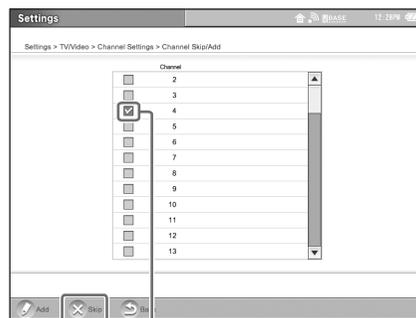
You can delete unwanted TV channels from the preset TV channel list.

### Note

If you want to restore deleted channels, perform Auto Program again (see page 32) or see “Restoring a Deleted Channel Manually” on the right side of this page.

- 1 Open the [Settings] window and select [TV/Video].  
The [TV/Video] window appears.
- 2 Select [Channel Settings].  
The [Channel Settings] window appears.
- 3 Select [Channel Skip/Add].  
The [Channel Skip/Add] window appears.

- 4 Place a check mark beside the channel you want to delete and select [Skip].  
You can select multiple channels at once.



[Skip]  
Check this.

The selected channels are deleted.

- 5 Select [Back] twice.  
The [TV/Video] window reappears.
- 6 Select [Settings], then select [Exit].

## Restoring a Deleted Channel Manually

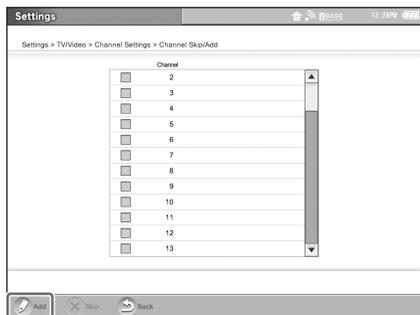
You can manually restore a deleted channel without performing automatic channel setup.

### Channels this product can receive

- VHF: 2-13
- UHF: 14-69
- Cable TV: 1-125

- 1 Open the [Settings] window and select [TV/Video].  
The [TV/Video] window appears.
- 2 Select [Channel Settings].  
The [Channel Settings] window appears.

- .....
- 3** Select [Channel Skip/Add].  
The [Channel Skip/Add] window appears.  
In the [Channel Skip/Add] window, a list of the channels detected during automatic channel setup appears.



[Add]

The channel editing window appears.

- .....
- 4** Set the channel you want to add and select [Add].  
Use [-] and [+] to specify the actual channel number of the station you selected.



When the channel is added successfully, the message “Channel Added.” appears at the top of the screen. If you try to add a channel which has already been registered, the message “This channel is already registered.” appears at the top of the screen.

- .....
- 5** Select [Back].  
The [Channel Skip/Add] window reappears with the revised channel information.

- .....
- 6** Select [Back].  
The [TV/Video] window reappears.

- .....
- 7** Select [Settings], then select [Exit].
- .....

# Changing the Wireless Channel Manually

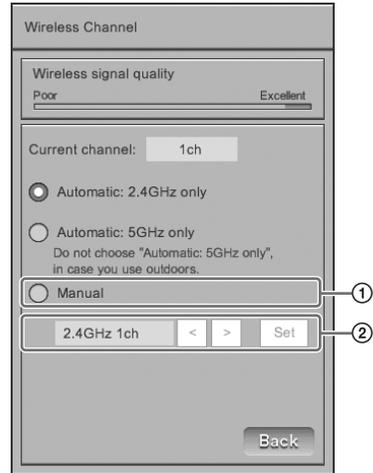
When the wireless communication signal becomes unstable during wireless operation, the LocationFreeTV automatically shifts to the clearest wireless channel. In the following situations, however, you should change the wireless channel manually:

- TV pictures are frequently interrupted.
- You want to set the optimum wireless channel manually.
- Another wireless device using the same frequency is located near the unit.
- You want to connect a computer to the base station via a wireless connection.
- When using the base station and monitor outside home.
- While configuring the wireless channel, do not turn off the base station or monitor.

**1** Open the [Settings] window and select [Base station].  
The [Base station] window appears.

**2** Select [Wireless Channel].  
The [Wireless Channel] window appears.

**3** Adjust the necessary items.



- ① Select [Manual].
- ② While checking the wireless signal quality, select the optimum wireless channel.

**Tip**

Wireless LAN cards that conform to IEEE 802.11a, b, or g standards can be used on the following channels. When connecting a computer to the base station via a wireless connection, select a channel supported by the computer's wireless LAN card.

For more on which channels your wireless LAN card supports, see the operating instructions for your wireless LAN card. (Some wireless LAN cards conforming to the IEEE802.11a standard do not support channels 149-161.)

- IEEE 802.11a wireless LAN card: 5 GHz
- IEEE 802.11b wireless LAN card: 2.4 GHz
- IEEE 802.11g wireless LAN card: 2.4 GHz

**Notes**

- LF-X1/LF-X5 can operate in the 5120 - 5250 MHz frequency band (the channels are 36, 40, 44, 48). It is limited by the FCC, Industry Canada and some other countries to indoor use only.
- When you have selected [Manual channel setting], do not use the channels (36, 40, 44, 48) that appear under "This channel cannot be used outdoors."
- Only use channels 149, 153, 157, and 161 when operating the monitor near the base station, such as in the same room.

.....

**4** Make sure you can watch TV or video through the wireless channel you have selected and select [Back].  
The [Base station] window is restored.

.....

**5** Select [Settings], then select [Exit].

.....

**💡 Tip**

The LocationFreeTV uses the 2.4 GHz and 5 GHz channels. If you select [Automatic: 2.4 GHz only] or [Automatic: 5 GHz only], the base station automatically selects the optimum wireless signal for the specified band.

### Using another wireless device nearby

If you are using two or more base stations within close range, or using your base station in range of a 2.4 GHz or 5 GHz wireless access point that conforms to IEEE 802.11a, b, or g standards, the wireless signal from the base station to the monitor may be disrupted. In this case, set your base station to [Automatic: 2.4 GHz only] or [Automatic: 5 GHz only] in the [Wireless Channel] window, and then set the wireless access point to a fixed channel. If images still do not display properly on the monitor, select [Manual] in the [Wireless Channel] window and manually change to a different channel than that set for the wireless access point.

**Note**

The term “wireless access point” above does not refer to the wireless transmission function of the base station, but to a separate wireless transmission device.

### Stopping radio wave emission from the monitor

When using the monitor in a place where radio wave emissions are prohibited, switch the monitor settings to wired LAN.

**Note**

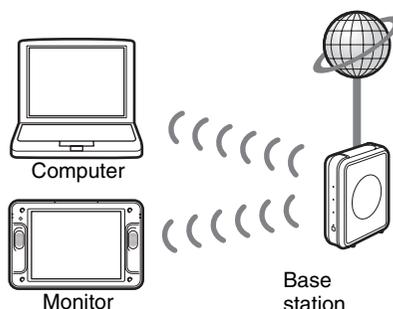
The base station always emits radio waves when its power is on.

## Using the Base Station as a Wireless Access Point

### What Is Wireless LAN?

A wireless LAN is a network (LAN) over which data is sent and received via wireless transmission. A wireless access point forms the center of a wireless network. You can use the base station to construct a wireless network for computers equipped with an integrated wireless LAN function or a wireless LAN card. Here are two examples of what you can do with a wireless network:

- Computers in various rooms of your home, such as a living room and a child’s room, can connect to the Internet wirelessly via the base station.



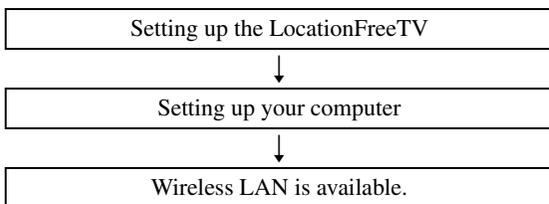
**💡 Tips**

- The wireless LAN described here is composed of the base station and a computer equipped with an integrated wireless LAN function or a wireless LAN card. If you are not going to construct a wireless network, you do not need to make the wireless LAN settings described in the following section.
- When using the base station as a wireless access point for a computer, the computer must be equipped with an integrated wireless LAN function or wireless LAN card that conforms to IEEE 802.11a, b, or g standards.

- The base station can still function as the wireless access point for other computers, even if you are using the monitor in wired LAN mode (i.e., no wireless connection to the base station).

## Setting Up a Wireless LAN

This section describes the basic steps for setting up the base station as a wireless access point for other computers. For more on configuring your wireless LAN card to access the base station, refer to the operating instructions that came with your wireless LAN card.

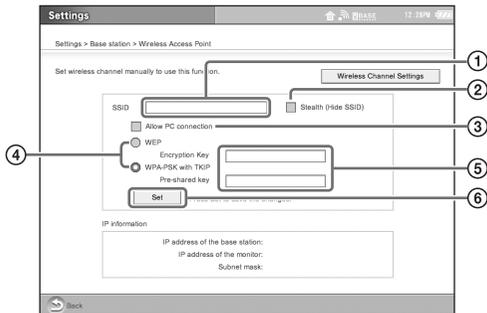


## Setting up the LocationFreeTV

Make sure communication between the base station and monitor is stable before configuring the following settings. While configuring settings, do not turn off the base station or monitor.

- 1 Open the [Settings] window and select [Base station].  
The [Base station] window appears.
- 2 Select [Wireless Access Point].  
The [Wireless Access Point] window appears.

- 3 Configure the necessary items and select [Set].



- 1 **SSID**  
A factory default character string should already appear. You can change it by entering up to 32 letters and/or numbers. An SSID is used to identify a wireless network.
- 2 **[Stealth (Hide SSID)] check box**  
Select if you do not want to disclose the SSID.
- 3 **[Allow PC connection] check box**  
Select to allow computers to connect.
- 4 **[Security]**  
Select either [WEP] or [WPA-PSK with TKIP encryption].
- 5 **Encryption keys**  
Set the necessary items according to the selected encryption method.

**WEP:**

Enter a character string of your choice as an encryption key. The encryption key length differs, however, for different encryption strengths. See the table below.

|                           | 40 bit/64 bit                 | 104 bit/128 bit               |
|---------------------------|-------------------------------|-------------------------------|
| Key length (Alphanumeric) | 5 characters                  | 13 characters                 |
| Key length (Hexadecimal)  | 10 characters (0-9, A-F, a-f) | 26 characters (0-9, A-F, a-f) |

**WPA-PSK with TKIP encryption:**

For WPA-PSK with TKIP encryption, enter a key that is between 8 and 63 ASCII encoded characters or 64 hexadecimal characters.

- 6 [Set] button

## Notes

- If you select the check box for [Stealth (Hide SSID)], the [Available Networks] box in the [Wireless Network Connection Properties] window of Windows XP will not show the base station.
- When you select [Set] after entering the encryption key at [WEP], 10 asterisks (\*) are displayed (if you entered 5 or 10 letters), or 26 asterisks are displayed (if you entered 13 or 26 letters).
- For an encryption key, enter a character string that other people will not find out.
- Change the encryption key periodically to ensure security.

## 💡 Tips

- For details on character entry, see “Entering Characters” (🔗 page 116).
- Do not forget the SSID and the encryption key that you entered. You need to enter them when connecting your computer to the wireless LAN.

.....

**4** Select [Wireless Channel Settings].  
The [Wireless Channel] window appears.  
Select a channel for the wireless LAN.  
For more on selecting a wireless channel,  
follow step 3 of “Changing the Wireless  
Channel Manually” (🔗 page 131).

.....

**5** Select [Back].  
The [Wireless Access Point] window  
reappears.

.....

**6** Select [Back].  
The [Base station] window reappears.

.....

**7** Select [Settings], then select [Exit].

.....

## Setting up your computer

Make sure your computer is equipped with a wireless LAN card that conforms to 2.4 GHz/5 GHz, IEEE 802.11a, b, or g standards. Next, you must configure the Windows environment settings, Internet connection settings, and wireless connection settings on your computer to match the wireless LAN settings of the base station. For more information, refer to the operating instructions that came with your wireless LAN card.

## 💡 Tip

Distance from the base station, ambient radio wave conditions, obstacles, and other factors can affect the stability of a wireless network connection. When setting up your computer, place it as close as possible to the base station.

## Notes

- When a connected computer is transferring data, the TV picture on the monitor may flicker or become distorted.
- See “About Wireless Security” (🔗 page 51) for information on wireless security.

# Resetting Factory Defaults

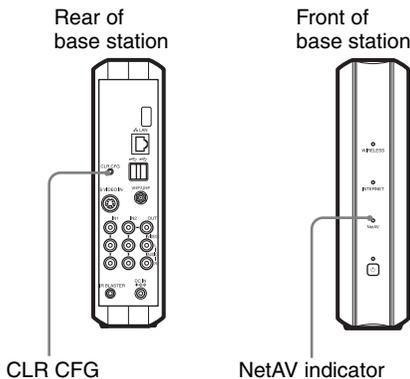
## Before initializing the LocationFreeTV

- Check that the base station is turned on. Bring the monitor close to the base station.
- Be sure to initialize the LocationFreeTV with the AC power adapter attached and the battery inserted.
- The monitor restarts during the initialization process. This is not a malfunction.

## Initializing the Base Station

To reset all settings, or just the connection settings, you need to initialize the base station.

- 1 Turn off the base station.
- 2 While pressing CLR CFG on the rear of the base station, turn on the POWER. Hold down CLR CFG until the NetAV indicator on the front of the base station lights red.



## Resetting All Settings

You can reset all settings to the factory defaults. Note, however, that all saved data will be lost.

### Notes

- Initialization deletes all of your data, including mail you have received, images stored in the album, as well as web pages and favorites you have saved.
- Be sure to follow the instructions for “Initializing the Base Station” before performing the following procedure.

- 1 Open the [Settings] window and select [Basic].  
The [Basic] window appears.
- 2 Select [Initialize].  
The [Initialize] window appears.
- 3 Select [Clear All].  
The [Clear All] window appears.
- 4 Carefully read the precautions shown on the screen, initialize the base station (☞ This page), and select [OK].  
All settings are reset.

### Note

After the monitor automatically restarts during initialization, verify that  appears at the top of the screen.

## Initializing Internet Connection/Wireless Connection

- Use the following procedure to reset the settings for the Internet connection, wireless connection, and connection mode.
- Be sure to follow the instructions for “Initializing the Base Station” before performing the following procedure.

.....

**1** Open the [Settings] window and select [Basic].  
The [Basic] window appears.

.....

**2** Select [Initialize].  
The [Initialize] window appears.

.....

**3** Select [Init. Internet Connection/Wireless].  
The [Init. Internet Connection/Wireless] window appears.

.....

**4** Carefully read the precautions shown on the screen, initialize the base station (☞ page 135), and select [OK].  
The Internet connection settings, wireless connection settings, and the connection mode settings are reset.

.....

**Note**  
After the monitor automatically restarts during initialization, verify that  appears at the top of the screen.

## Initializing Mail Settings

Follow the steps below to reset the mail settings and delete all sent and received mail data. You can also initialize the mail settings if you forget the mail protection password you set for the [E-mail] window.

**Note**  
Initializing the mail settings also deletes any images received by mail. Images copied to the album, however, are not deleted.

.....

**1** Open the [Settings] window and select [E-mail].  
The [E-mail] window appears.

.....

**2** Select [Protection].  
The [Protection] window appears.

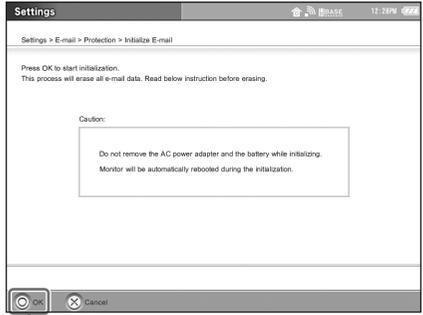
.....

.....

**3** Select [Initialize E-mail].  
The [Initialize E-mail] window appears.

.....

**4** Carefully read the precautions shown on the screen and select [OK].



[OK]  
The mail settings are initialized.

.....

# Checking Available Memory

### Notes

- The actual total memory of a memory card differs from the amount printed on it. The total memory shown in the [Storage Size] window is the actual amount you can use.
- A certain amount of memory on the LocationFreeTV or a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5) is used for settings data that cannot be deleted.

### Increasing available memory

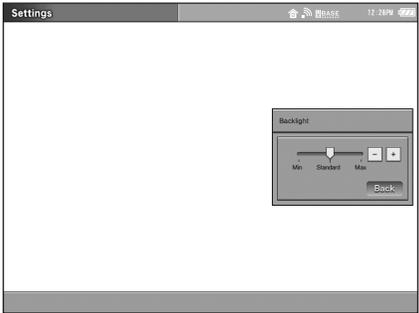
When the amount of available memory in the unit runs low, use the following procedures to delete unnecessary data and free up more memory.

- Clear the cache memory. See “Configuring Other Settings” (☞ page 82).
- Delete mail. See “Deleting a mail in progress or a saved mail” (☞ page 89).
- Delete pictures in the Album. See “Using the Album Window” (☞ page 104).

# Adjusting the Screen Backlight

You can adjust the backlight of the screen. This operation changes the backlight for all screens.

- 1 Open the [Settings] window and select [Backlight].  
The [Backlight] window appears.
- 2 Adjust the backlight and select [Return].  
Move the slider or select [-] or [+] to adjust the backlight.



| Setting item | When [-] is selected | When [+] is selected |
|--------------|----------------------|----------------------|
| Backlight    | Darker               | Brightness           |

The [Settings] window is restored.

- 3 Select [Back].





# Others

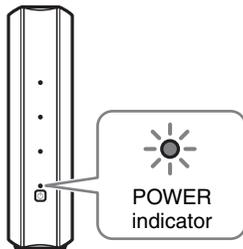
|                        |          |
|------------------------|----------|
| Status Indicators..... | page 140 |
| Troubleshooting .....  | page 141 |
| Specifications .....   | page 151 |
| Index.....             | page 157 |
| Trademarks.....        | page 159 |

# Status Indicators

The power indicators on the front of the base station and on top of the monitor, and the  battery charge indicator on the left of the monitor show the status of the base station and monitor when a malfunction occurs. Use the following table to determine what problem the status indicator is alerting you to and to find possible solutions. If the problem persists, contact your Sony dealer.

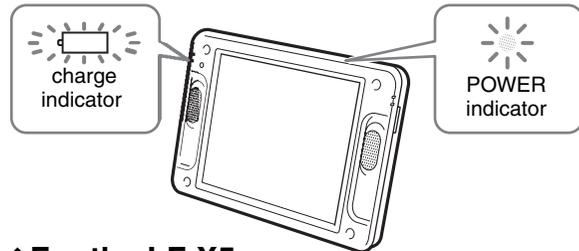
## Status indicators

Front of base station

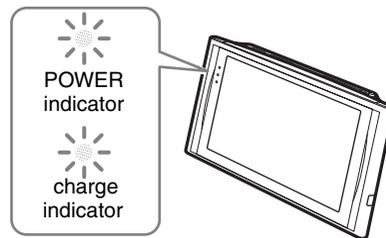


Monitor

### ◆For the LF-X1

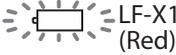


### ◆For the LF-X5



| POWER indicator on the base station  | Problem                              | Solution   |
|--|--------------------------------------|--|
| Blinks red<br><br>(Red) | The hardware may have malfunctioned. | <ol style="list-style-type: none"> <li>❶ Turn the base station off and then on again.</li> <li>❷ If the problem persists, contact your Sony dealer.</li> </ol> |

| POWER indicator on the monitor   | Problem                              | Solution  |
|--|--------------------------------------|---|
| Blinks red<br><br>(Red) | The hardware may have malfunctioned. | <ol style="list-style-type: none"> <li>❶ Turn the monitor off and then on again.</li> <li>❷ If the problem persists, contact your Sony dealer.</li> </ol> |

| Battery charge indicator on the monitor  | Problem                             | Solution  |
|--|-------------------------------------|---|
| Blinks red<br> LF-X1 (Red)<br><br> LF-X5 (Red) | The battery may have malfunctioned. | <ol style="list-style-type: none"> <li>1 Remove the AC power adapter and the battery. Reinstall the battery.</li> <li>2 If the problem persists, contact your Sony dealer.</li> </ol> |

# Troubleshooting

If a problem occurs during operation of the LocationFreeTV, refer to the information provided in this section. If the problem persists, contact your Sony dealer.

## General

| Problem   | Causes and remedies   |
|---|---|
| Monitor does not turn on.   | <ul style="list-style-type: none"> <li>• Connect the AC power adapter (☞ page 26).</li> </ul>   |
| Monitor suddenly turns off.   | <ul style="list-style-type: none"> <li>• Make sure the sleep timer has not been set to activate (☞ page 128).</li> <li>• The battery may be dead. Try replacing it. Batteries can be recharged about 300 times before needing replacement.</li> <li>• The monitor may have automatically turned off the power because the temperature elevation reached the safety limit (LF-X5 only).</li> </ul>   |
|  * appears.<br><br>* This icon only appears in Home-Wireless mode. | <ul style="list-style-type: none"> <li>• Make sure the base station is turned on.</li> <li>• Move to a location where  appears; or change the height and orientation of the base station.</li> <li>• If a nearby device, such as another wireless access point, is operating on the same wireless channel as the signal from the base station, change the setting on the wireless access point (☞ page 132).</li> <li>• Wireless communications might be interfered by radio waves. Change the wireless channel or move to a location free from radio interference (☞ page 132).</li> <li>• When using the 2.4 GHz channel:                             <ul style="list-style-type: none"> <li>- Make sure a microwave oven is not in use nearby. Interference from a microwave to the wireless signal will stop when the oven is no longer in use.</li> <li>- Are you using a 2.4 GHz cordless phone in the vicinity? A cordless phone turned on in the vicinity can interfere with the signal. Change the wireless channel.</li> </ul> </li> </ul> |
| Screen suddenly goes dark.  | With the Web, Mail, Album, or Settings window displayed, the power save timer activated and turned off the backlight of the screen. Touch the screen or press any button to illuminate the screen. If you prefer, deactivate the power save timer (☞ page 128).   |
| Screen is too dark.   | Adjust the Backlight in the settings window.  |
| On-screen buttons do not respond.   | <ul style="list-style-type: none"> <li>• When the [Index] window or a dialog message is displayed, you cannot select any button outside of that window or message.</li> <li>• Dimmed buttons cannot be selected. Some buttons can only be selected after selecting a check box.</li> </ul>  |
| A different button than the one you selected responds.  | The screen is not aligned with the stylus. See “Stylus Calibration”. (☞ page 128).  |

| <b>Problem</b>                                     | <b>Causes and remedies</b>   |
|--|--|
| LocationFreeTV does not respond.                   | Turn the power off and then on again.  |
| Cannot turn off the Monitor or base station power. | Hold down the power button for at least 3 seconds. This will force it to turn off.   |
| Password error occurs.                             | Make sure you have correctly entered all upper and lower case letters. The password field differentiates between upper and lower case.   |
| Battery runs out immediately.                      | The battery may be damaged or in need of replacement. Battery capacity gradually decreases with each recharging. Battery life is also shortened when the battery is used at extremely high temperatures (ⓘ page 27).   |
| ☐ (Battery charge) indicator does not turn on.     | <ul style="list-style-type: none"> <li>• Check that the battery is inserted. (When the AC adapter is connected, the AC adapter indicator appears instead of the battery indicator.)</li> <li>• The battery may need replacement.</li> <li>• The indicator does not turn on when the battery is fully charged.</li> <li>• For the LF-X5, the battery cannot be charged when the monitor power is on. Turn the monitor off to charge the battery.</li> </ul> |
| ☐ (Battery charge) indicator flashes.              | <ul style="list-style-type: none"> <li>• There may be a problem with the battery. Disconnect the AC power adapter. Remove the battery and reinstall it. If the problem persists, contact your Sony dealer.</li> <li>• The battery will not charge if the temperature is not between 32°F to 95°F (0°C to 35°C).</li> </ul>   |
| Clock is incorrect.                                | The built-in battery used to keep the clock accurate may be dead. When this happens, the clock will stop once the monitor's rechargeable battery depletes. Contact your Sony dealer for more information on replacing the built-in clock battery.  |

## External Keyboard (LF-X1 only)

| <b>Problem</b>                                | <b>Causes and remedies</b>  |
|---|---|
| Keys on an external keyboard do not respond.  | <ul style="list-style-type: none"> <li>• Make sure the text entry field is selected.</li> <li>• Make sure the connector from the keyboard is securely connected.</li> </ul>   |
| Cannot use some keys on an external keyboard. | <ul style="list-style-type: none"> <li>• You may not be able to use some keys with the LF-X1.</li> <li>• A USB type keyboard with a hub may not operate correctly.</li> </ul> |

## TV and video

| <b>Problem</b>                 | <b>Causes and remedies</b>  |
|--------------------------------|---|
| No color or incorrect color    | <ul style="list-style-type: none"> <li>• Adjust the picture quality (ⓘ page 68).</li> <li>• Verify whether the AV cable is correctly connected.</li> </ul>  |
| Picture appears, but no sound. | <ul style="list-style-type: none"> <li>• Make sure the volume is not turned down all the way.</li> <li>• If ☒ is displayed on the screen, press VOLUME + on the monitor to make it disappear. (LF-X1 only)</li> <li>• Make sure there are no headphones connected.</li> </ul> |

| Problem   | Causes and remedies   |
|---|---|
| No picture  | <ul style="list-style-type: none"> <li>• Make sure the base station is turned on.</li> <li>• During wireless connection inside the home, if the wireless signal has been lost, move closer to the base station until you reach a place where  appears.</li> <li>• During wireless connection inside the home, if a nearby device, such as another wireless access point, is operating on the same wireless channel as the signal from the base station, change the setting on the wireless access point.</li> <li>• When Wireless or Wired LAN is selected in On the go mode, either connect through NetAV or change to the wireless connection ( page 47).</li> <li>• When using wired LAN mode, verify that the monitor is set to connect with [Home-Wired LAN]. If images still do not appear, temporarily switch the setting to [Home-Wireless] and then switch it back to [Home-Wired LAN].</li> <li>• When  appears in the bar at the top of the screen, you can press [Get AV] at the bottom of the TV/[Video1] or [Video2] screen to intercept the image.</li> </ul> |
| Picture freezes frequently.   | <ul style="list-style-type: none"> <li>• There is a possibility that a nearby device is operating on the same wireless channel as the unit. Change the wireless channel setting of the unit, or use it somewhere out of range of the other device.</li> <li>• When using wired LAN mode, use a 10/100 Base-T router or hub, and not a 10 Base-T router or hub.</li> <li>• When using NetAV, pictures may freeze due to communication conditions on the Internet.</li> </ul>   |
| Pictures appear to be grainy and pixilated.                         | <ul style="list-style-type: none"> <li>• This happens because of image processing, and is not a malfunction.</li> </ul>   |
| Cannot control External TV tuner with the on-screen remote control. | <ul style="list-style-type: none"> <li>• Some set-top boxes (STB) cannot be controlled with the on-screen remote control when connected to the base station with an antenna cable. To control these STB with the on-screen remote control, connect them to the base station with a video cable ( page 21, 33). For more details, refer to the instruction manual for your STB.</li> </ul>  |

## TV/video

### No picture

| Problem   | Causes and remedies  |
|---|--|
| Cannot get any TV channels to appear.   | <ul style="list-style-type: none"><li>• After verifying whether [Cable] is set to [On], run automatic channel preset again.</li><li>• Make sure the base station is turned on.</li><li>• Connect the antenna cable securely to the base station (☞ page 20).</li><li>• Make sure the STB is set correctly. Also confirm the specifications.</li></ul>  |
| Cannot get some specific TV channels to appear.                                       | Change the channel setting and adjust the reception frequency (☞ page 30).   |
| Cannot get cable TV channels to appear. Images from a connected device do not appear. | <ul style="list-style-type: none"><li>• The unit supports cable TV channels 1 to 125. If you want to watch other channels or the channel signal is scrambled, connect a cable set-top box to the video input terminal on the base station.</li><li>• Firmly attach the connection cables. Check that the connections to the red, white, yellow, and S-Video jacks are correct (☞ page 21).</li><li>• Non-interlace signals from computers or other equipment cannot be displayed.</li><li>• Make sure the device is connected to the correct input terminal (☞ page 14).</li><li>• Make sure you have not connected the device to the video output terminal. Connect to the video input 1 or 2 terminals (☞ page 14).</li><li>• After verifying whether [Cable] is set to [On], run automatic channel preset again.</li><li>• When connecting an STB or other device by antenna cable, switch to channel 3 or 4 to display the image from the STB. For channels other than 3 or 4, select [TV] from [Settings &gt; TV/Video &gt; Remote Settings], and after temporarily selecting the internal TV tuner, change to channel 3 or 4 with the on-screen remote. With the LF-X1, You can also change the channel using a Sony brand TV remote control (not supplied).</li></ul> |
| The on-screen remote does not work.   | <ul style="list-style-type: none"><li>• Connect the IR Blaster to the IR BLASTER port on the base station (☞ page 14).</li><li>• Press some of the buttons on the device itself to make sure that it is functioning normally. (Some devices cannot be operated, or can only be partially operated, by the on-screen remote.)</li><li>• Make sure the IR Blaster is installed so that it faces the infrared receiver correctly (☞ page 33).</li><li>• Move the device's infrared receiver away from any bright light, such as a fluorescent light or direct sunlight.</li><li>• The on-screen remote may not work properly when the connection between the monitor and base station is poor.</li><li>• Reprogram the on-screen remote control settings (☞ page 33). (Some devices cannot be operated, or can only be partially operated, by the on-screen remote.)</li><li>• Make sure the remote control settings for [Video 1] and [Video 2] are configured correctly in the [Remote Settings] window.</li></ul>  |
| No picture appears on a device connected to the base station's video output terminal. | Make sure you have not connected the device to the video input 1 terminal on the base station. Connect to the video 2 input terminal.  |

### Poor picture

| Problem                 | Causes and remedies   |
|-------------------------|---|
| Double images or ghosts | <ul style="list-style-type: none"><li>• Connect the antenna cable securely (☞ page 20).</li><li>• Adjust the position, orientation, and angle of the antenna.</li></ul>   |
| Snow or dim pictures    | <ul style="list-style-type: none"><li>• Check the antenna and/or cable connections.</li><li>• Make sure the channel selected is currently broadcasting.</li><li>• Make sure the antenna is not damaged or broken.</li></ul> |

| Problem           | Causes and remedies   |
|-------------------|---|
| Stripes and noise | <ul style="list-style-type: none"> <li>• Make sure the TV antenna is securely connected (☞ page 20).</li> <li>• Keep the antenna cable away from the power cord and other connection cables.</li> </ul> |

## Web

| Problem  | Causes and remedies   |
|--|---|
| Cannot connect to the Internet.                                | <ul style="list-style-type: none"> <li>• Check if the indicator on the base station is lit.</li> </ul> <p><b>When not lit:</b><br/> <b>(Any type of connection)</b></p> <ul style="list-style-type: none"> <li>• Make sure you have selected the correct connection type for your setup.</li> <li>• Check the base station settings under the Internet connection setting.</li> </ul> <p><b>(LAN connection)</b></p> <ul style="list-style-type: none"> <li>• Make sure the LAN cable is securely connected.</li> <li>• Make sure you are using the correct type of LAN cable (straight-wired or cross-wired) for your setup.</li> <li>• To find the cable type you need, see the operating instructions for the device you want to connect or contact your ISP.</li> <li>• Your Internet service contract may only allow one device to connect to the Internet at a time. Make sure no other device is already online.</li> </ul> <p><b>(DSL connection)</b></p> <ul style="list-style-type: none"> <li>• Make sure the DSL port and the TEL (telephone) port on the splitter are connected correctly.</li> <li>• Refer to the operating instructions for the device to confirm that the DSL modem indicators are properly illuminated.</li> <li>• For Public Wireless Access, (☞ page 148)</li> </ul> |
| The error message “Cannot connect to the web server.” appears. | <ul style="list-style-type: none"> <li>• During wireless connection inside the home, check that the base station and monitor are communicating.</li> <li>• Make sure no cables have been disconnected.</li> <li>• Check the on-screen icon. When the disconnected icon appears, check the monitor settings (☞ page 45).</li> <li>• Your Internet service contract may not allow for devices like the LocationFreeTV or your provider may be experiencing trouble with its servers. Contact your ISP.</li> <li>• Select [Set] to the right of [LAN (DHCP/Manual IP address settings)] at [Internet Connection] on the [Base station] screen, place a check mark beside [LAN (DHCP Automatic IP address settings)] again, and then select [Set]. (☞ page 41).</li> <li>• See “Connecting via LAN (DHCP)” (☞ page 40), clear the check box for [LAN (DHCP/Manual IP address setting)], and configure the connection.</li> <li>• The proxy server settings may not be set properly “Configuring Other Settings” (☞ page 82). Contact your ISP.</li> </ul>   |
| Cannot automatically receive an IP address from a DHCP server. | <ul style="list-style-type: none"> <li>• Make sure no cables have been disconnected.</li> <li>• Your Internet service contract may not allow for devices like the LocationFreeTV or your provider may be experiencing trouble with its servers. Contact your ISP.</li> <li>• See “Connecting via LAN (DHCP)” (☞ page 40), clear the check box for [LAN (DHCP/Manual IP address setting)], select [set], and configure the connection.</li> </ul>  |
| Connection to the Internet was suddenly lost.                  | <p>If using a router, make sure the router’s automatic hang-up function is turned off.</p>  |
| Part of a web page is not displayed.                           | <ul style="list-style-type: none"> <li>• Sometimes a portion of the data for a displayed page is lost during transmission. Select [Reload] and wait for the page to reload.</li> <li>• When the link to an image file is broken, the image may not be displayed.</li> </ul>   |

| Problem   | Causes and remedies  |
|---|--|
| Characters are not correctly displayed on web pages.          | <ul style="list-style-type: none"> <li>• Select [Reload] and wait for the page to reload.</li> <li>• Select [Back] or [Fwd] to open another page, then return to the page with the problem. If the problem persists, turn the power on and off.</li> <li>• Open the [Settings] - [Web] screen and check the character code setting.<br/>If you changed the character code, the changed code becomes effective only after the monitor is restarted.</li> <li>• Characters will not display properly if the page is in a language that is not supported by the LocationFreeTV.</li> </ul>  |
| Linked pages do not open.                                     | <ul style="list-style-type: none"> <li>• File types that are not supported by the LocationFreeTV cannot be displayed. Web pages that use an unsupported plug-in also cannot be displayed. However, even Flash and PDF files supported by the device may not display for some web sites.</li> <li>• To view a web page using Flash, select the check box for [Enable Flash] in the [Web] settings window (☞ page 82).</li> <li>• Web pages written in JavaScript will sometimes not display properly or will load repeatedly. Deactivating JavaScript by removing the check mark from [Enable JavaScript] in the [Web] settings window may allow the page to display properly. (Normally, leave [Enable JavaScript] selected and keep it enabled (☞ page 82).</li> <li>• Some portions of web pages written in JavaScript cannot be displayed with the LocationFreeTV.</li> </ul>   |
| Some images are not displayed on a web page.                  | <ul style="list-style-type: none"> <li>• Select [Reload] and wait for the page to reload.</li> <li>• The  icon means that the file failed to load or is a file that the LocationFreeTV cannot display.</li> <li>• Files that appear as icons cannot be displayed by the LocationFreeTV.</li> <li>• The LocationFreeTV may fail to display large-sized images.</li> <li>• The LocationFreeTV cannot display image files other than JPEG, GIF, and PNG.</li> <li>• MPEG1 movie files on the Internet cannot be displayed.</li> <li>• When the connection is busy, it takes time to load the image. You can continue to wait, or select [Reload] after a while and try reloading the page.</li> </ul>  |
| Although connected to the Internet, web pages do not display. | <ul style="list-style-type: none"> <li>• The access point or the server may be busy. Wait a little while, and then try reloading the page.</li> <li>• To view a web page using Flash, select the check box for [Enable Flash] in the [Web] settings window (☞ page 82).</li> <li>• Check the web page address.</li> <li>• If you try to open a page that uses Flash or places a heavy burden on the system's memory, the memory may be insufficient to open the page. If other tabs are open, close them all.</li> <li>• Web pages written in JavaScript will sometimes not display properly or will load repeatedly. Deactivating JavaScript by removing the check mark from [Enable JavaScript] in the [Web] settings window will often allow the page to display properly. (Normally, leave [Enable JavaScript] selected and keep it enabled (☞ page 82).)</li> <li>• Some portions of web pages written in JavaScript cannot be displayed with the LocationFreeTV. Plug-ins other than Flash are not supported.</li> </ul> |
| A correct web page URL is not shown in the Fav. list.         | <p>On a web site that supports frames, sometimes the address displayed for a page is not the address of the page itself.</p>   |
| Buttons do not respond.                                       | <ul style="list-style-type: none"> <li>• Button response can slow down while a web page is loading. Wait for the page to finish loading and then select the button.</li> <li>• While waiting for a web page to finish loading, the [Add] button on the Favorites list and the [Add] button on the [Save] settings window sometimes go dim and cannot be selected. Wait for the web page to finish loading and then try again.</li> </ul>   |

| Problem   | Causes and remedies   |
|---|---|
| “Join/register” is shown on a web page.   | For some web pages, the LocationFreeTV may not allow you to join or register.   |
| Nothing appears when [Home] is selected.  | No address has been specified for Default page. Enter the address of a web page for the Default page (📄 page 82).   |
| The message “Cannot open this web page.” appears.<br>When you select from a menu or other lists, the screen does not respond.<br>Nothing appears when a button is selected. | Any of the following are possible: <ul style="list-style-type: none"> <li>• The web page uses JavaScript or a file type that the LocationFreeTV does not support.</li> <li>• The unit failed to connect to the web server. Wait a little while and try connecting again.</li> </ul> |
| The message “Memory is full.” appears.  | <ul style="list-style-type: none"> <li>• If you have opened multiple tabs, close some tabs.</li> <li>• Some large size web pages may not display.</li> <li>• Turn the monitor off and then on again.</li> <li>• A large sized file may not open.</li> </ul>                         |

## Mail

| Problem  | Causes and remedies   |
|--|---|
| Cannot send or receive mail.   | <ul style="list-style-type: none"> <li>• Your mail settings may be incorrect. Check them against the information you have received from your ISP.</li> <li>• When sending the mail to multiple addresses, separate each address with a comma (.).</li> <li>• When sending mail to a large number of addresses, separate the recipients into smaller groups, and send the mail separately to each group of recipients.</li> <li>• Your network settings may be incorrect. Contact your ISP.</li> </ul> |
| Cannot recall the mail protection password.  | Once the mail protection password has been set, you must input that password in order to change or delete it. If you have lost your mail protection password, initialize the mail settings (📄 page 136).  |
| While attaching an image to an e-mail, the [Picture List] window does not show the expected image. | <ul style="list-style-type: none"> <li>• Make sure you have selected the location where the image is saved. Switch the tab to select an appropriate folder.</li> <li>• The LocationFreeTV may fail to display images from a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5)” initialized using a computer. Initialize the “Memory Stick” (LF-X1) or CompactFlash card (LF-X5) using the unit.</li> </ul>  |
| Characters in incoming mail are not displayed properly.  | The character encoding methods supported by the LocationFreeTV are US-ASCII, ISO-8859-1, UTF-8, ISO-2022-JP, SHIFT_JIS, and EUC-JP. No other encoding methods are supported. If characters cannot be displayed properly, open the [Settings] - [Web] screen and check the character code setting.   |
| Images in HTML mail are not displayed.   | Depending on the type of HTML, some images may not display.   |
| A question mark (?) appears on the image attached to a mail.                                       | <ul style="list-style-type: none"> <li>• The file format is not supported by the LocationFreeTV. You may display the file by sending it to a computer installed with software that supports this type of image file.</li> <li>• The image has been corrupted.</li> </ul>  |
| The message “Memory is full.” appears.   | <ul style="list-style-type: none"> <li>• If you have opened multiple tabs on the web screen, close some tabs.</li> <li>• Turn the monitor off and then on again.</li> </ul>   |

## Album

| <b>Problem</b>   | <b>Causes and remedies</b>   |
|--|--|
| A question mark (?) appears on the screen.                               | <ul style="list-style-type: none"><li>• The LocationFreeTV cannot display this type of image file. Even if the image file is acceptable, it may not display properly if the file size is too large.</li><li>• The image has been corrupted.</li></ul>  |
| Saved image cannot be displayed.   | <ul style="list-style-type: none"><li>• Make sure you have selected the correct location where the image is saved. Try switching tabs.</li><li>• For images copied from a computer to a “Memory Stick” (LF-X1) or a CompactFlash card (LF-X5) check if you have saved them in the appropriate folder (☞ page 112).</li></ul> |
| Saved images do not appear in the top left of the [Picture List] window. | Check the date and time settings (☞ page 128).   |
| Cannot get the slide show to work.                                       | You may have only placed a check by one image. Clear the check, or place a check mark by two or more images.   |
| The message “Cancelled by memory storage.” appears.                      | <ul style="list-style-type: none"><li>• If you have opened multiple tabs on the web screen, close some tabs.</li><li>• Turn the monitor off and then on again.</li></ul>   |
| Picture being drawn can no longer be seen.                               | If you select [Brighter] or [Darker] repeatedly, the original picture may disappear. Select [Restart] or [Return to hold].   |

## Public Wireless Access

| <b>Problem</b>   | <b>Causes and remedies</b>   |
|--|--|
| Cannot connect.  | <ul style="list-style-type: none"><li>• When connecting to a network for the first time, you must configure it.</li><li>• It may be a No Encryption network. Try switching to the No Encryption setting.</li><li>• You cannot connect to a network that does not have a plus (+) symbol under [Signal] and [Avail.].</li><li>• After pressing [Search/Update], try to [Connect] again.</li></ul> |
| Cannot connect to a network even though the SSID and band appear under [Current connection]. | Check that the target device is correctly connected to the LAN.  |

## NetAV

| Problem  | Causes and remedies  |
|--|--|
| Connection will not be established even though [NetAV] is pressed.             | <ul style="list-style-type: none"> <li>• You cannot use NetAV unless the base station is turned on and has been prepared for the Internet connections. Make sure settings are configured correctly for  / . Before using NetAV, be sure to turn on the base station.</li> <li>• Make sure the Internet connection settings for the monitor are correct. It is possible that the IP address is conflicting with that of another device. Try reconfiguring the settings.</li> <li>• Before using NetAV, the monitor, the base station, and connected routers must be properly configured.</li> <li>• Make sure the domain name has been correctly entered in the [Enable/Disable NetAV] window “Making the base station accessible by NetAV” (Ⓞ page 56).</li> <li>• It may take time to renew the Dynamic DNS address code. Wait for at least 10 minutes and retry connecting.</li> <li>• It may take time to obtain an IP address when the LAN connection under [Monitor] is set to obtain one automatically (DHCP). Also, settings do not become effective unless you select [Set].</li> <li>• If the NetAV LED on the base station is lit red, the [Dynamic DNS] setting on the [NetAV Settings] window authentication has failed. Check that the setting is configured properly. When the “NetAV” indicator on the base station is lit red, the settings for [Dynamic DNS] are not correct. For more information, refer to the LocationFreeTV FAQ (<a href="http://www.sony.com/locationfree/faq/">http://www.sony.com/locationfree/faq/</a>).</li> <li>• If you are using a router, verify the router’s port forwarding settings.</li> <li>• Turn the router off and then on again.</li> </ul> |
| Picture is distorted.  | <ul style="list-style-type: none"> <li>• Because NetAV communicates through the Internet, when there is heavy traffic on the line, images may not be sent or received smoothly.</li> <li>• Try a slower bit rate.</li> </ul>   |
| Connection halts while the “Connecting to the base station.” message is shown. | Transmission may take time depending on where the monitor and base station are located. A high level of traffic on the communication lines connecting the monitor and base station can also affect transmission times.   |
| NetAV cuts out suddenly.   | If another monitor is registered, the other monitor might have begun receiving AV content.   |

## Registered monitors

| Problem   | Causes and remedies  |
|---|--|
| Cannot connect to a network or use NetAV.       | <ul style="list-style-type: none"> <li>• Is the password set under [NetAV Settings]-[Registration for Binding] correct?</li> <li>• Are the “Alias” and “Serial number” that appear under [Register Other Monitors]-[Registered monitors] for the registered base station correct?</li> <li>• Have the IP address and domain name of the registered base station been input correctly under [NetAV Settings]-[NetAV Connection] on the registered other monitor?</li> </ul>   |
| Can connect to a network, but cannot use NetAV. | <p>Have you completed registration for binding? If not, see page 57-60 to perform registration.</p> <p>A. On the registered base station</p> <ul style="list-style-type: none"> <li>• [Enable/Disable NetAV] is not set to “Enable” on the registered base station.</li> <li>• If the check box by “Allow AV interception by registered monitors” under [Register Other Monitors]-[Registered monitors] is not selected, you may not be able to connect to the NetAV server because another monitor is connected with NetAV or is receiving AV content.</li> <li>• Settings have not been configured correctly. Refer to page 57-60 and reconfigure the settings.</li> <li>• The power is turned off.</li> <li>• The base station may not be able to connect to the Internet.</li> </ul> <p>B. On the registered monitor</p> <ul style="list-style-type: none"> <li>• Another registered monitor may be using NetAV already. Press the [Get AV] button on the bar at the bottom of the screen to begin viewing content.</li> <li>• The settings for NetAV have not been configured correctly. (Refer to the “Causes and remedies” for “Connection will not be established even though [NetAV] is pressed”.)</li> <li>• Settings have not been configured correctly. Refer to page 57-60 and reconfigure the settings.</li> <li>• There is a problem with some other network setting.</li> </ul> <p>C. Other</p> <ul style="list-style-type: none"> <li>• Another monitor may be viewing content with NetAV.</li> <li>• There is a problem with the line. (Not enough bandwidth, etc.)</li> </ul> |

## Others

| Problem   | Causes and remedies   |
|---|---|
| TV and video pictures are distorted when the base station is used as a wireless LAN access point. | When a computer receives or sends data through wireless LAN while you are watching TV or video on the monitor, pictures on the monitor or audio may be distorted.       |
| It takes awhile for the picture to appear.  | Transmission may take time due to a high level of traffic on the lines connecting the monitor and base station, or due to the location of the base station and monitor. |

- For questions about Internet connections, contact your Internet Service Provider (ISP).
- LocationFreeTV FAQ pages  
<http://www.sony.com/locationfree/faq/>

# Specifications

## ◆For the LF-X1

### System

|                                 |  |
|---------------------------------|--|
| Television system               | NTSC   |
| Channel coverage                | VHF: 2 - 13,<br>UHF: 14 - 69,<br>CATV: 1 - 125   |
| Tuning system                   | PLL synthesizer  |
| Screen size                     | 9 <sup>7</sup> / <sub>8</sub> × 7 <sup>3</sup> / <sub>8</sub> inches,<br>12 <sup>1</sup> / <sub>4</sub> inches (24.9 × 18.7 cm,<br>31.1 cm)<br>(w/h, diagonal) |
| Display                         | Transparent TN LCD panel   |
| Drive system                    | TFT<br>Active matrix drive system  |
| Effective picture element ratio | 99.99 %  |
| Effective picture elements      | Horizontal: 800 dots<br>Vertical: 600 lines  |
| Speaker                         | 1 <sup>1</sup> / <sub>8</sub> × 1 <sup>5</sup> / <sub>8</sub> inches (2.8 × 4 cm)<br>(w/h)<br>oval (2)   |
| Audio output                    | 0.6 W × 2, 8 ohms  |

### Web browser

|                  |   |
|------------------|---|
| HTML             | HTML 4.01, XHTML Basic 1.0<br>Frame, JavaScript, SSL (V2/3), TLS 1.0, JavaApplet (PJAE 1.2) |
| Image file types | GIF, JPEG, PNG  |
| Macromedia Flash | Ver.6   |
| AdobeReader LE   | V1.0  |

### Mail

|                   |      |
|-------------------|------|
| Transmit protocol | SMTP |
| Receive protocol  | POP3 |

### Album

|                  |   |
|------------------|---|
| Album file types | GIF, JPEG, PNG, BMP, MPG<br>(MPEG1 movie) |
|------------------|---|

### Input/output

#### Base station

|         |                          |
|---------|--------------------------|
| VHF/UHF | 75-ohm external terminal |
| S-VIDEO | 4-pin mini DIN           |

#### VIDEO INPUT1

|        |  |
|--------|--|
| Y:     | 1 Vp-p, 75 ohms unbalanced,<br>sync negative |
| C:     | 0.286 Vp-p (burst), 75 ohms                  |
| Video: | 1 Vp-p, 75 ohms unbalanced,<br>sync negative |
| Audio: | 500 mVrms, Impedance:<br>47 kilohms          |

#### VIDEO INPUT2

|        |  |
|--------|--|
| Video: | 1 Vp-p, 75 ohms unbalanced,<br>sync negative |
| Audio: | 500 mVrms, Impedance:<br>47 kilohms          |

#### VIDEO OUTPUT

|        |  |
|--------|--|
| Video: | 1 Vp-p, 75 ohms unbalanced,<br>sync negative |
| Audio: | 500 mVrms, Impedance: less<br>than 5 kilohms |

|            |   |
|------------|---|
| DC IN      | 12 V DC   |
| ETHERNET   | 10Base-T/100Base-TX<br>Ethernet with RJ-45 interface<br>(1) |
| IR BLASTER | Minijack (1)  |
| USB        | USB 1.1 (2)   |

#### Monitor

|            |   |
|------------|---|
| DC IN      | 16 V DC   |
| Headphones | Stereo minijack<br>Impedance: 16 ohms or more               |
| USB        | USB 1.1 (1)   |
| ETHERNET   | 10Base-T/100Base-TX<br>Ethernet with RJ-45 interface<br>(1) |
| AV IN      | Minijack (1)  |

## AC power adapter

### AC-LX1B (for the base station)

|                       |  |
|-----------------------|--|
| Power requirements    | 100 - 240 V AC, 50/60 Hz   |
| Rated output          | DC OUT: 12 V DC, 3 A   |
| Operating temperature | 32°F to 95°F (0°C to 35°C)   |
| Storage temperature   | 14°F to 140°F<br>(-10°C to 60°C)   |
| Dimensions            | Approx. 4 × 2 × 1 <sup>1</sup> / <sub>16</sub> inches<br>(99.5 × 49.5 × 25.5 mm)<br>(w/h/d, excluding protrusions) |
| Mass                  | 7 oz. (200 g)  |

### AC-LX1M (for the monitor)

|                       |   |
|-----------------------|---|
| Power requirements    | 100 - 240 V AC, 50/60 Hz  |
| Rated output          | DC OUT: 16 V DC, 3.75 A   |
| Operating temperature | 32°F to 95°F (0°C to 35°C)  |
| Storage temperature   | 14°F to 140°F<br>(-10°C to 60°C)  |
| Dimensions            | Approx. 5 × 1 <sup>3</sup> / <sub>16</sub> × 2 <sup>3</sup> / <sub>8</sub> inches<br>(125 × 30 × 60 mm)<br>(w/h/d, excluding protrusions) |
| Mass                  | 11 oz. (300 g)  |

## BP-LX1A Battery

|                       |  |
|-----------------------|--|
| Rated voltage         | 10.8 V DC  |
| Capacity              | 4,400 mAh  |
| Type                  | Lithium ion battery  |
| Dimensions            | Approx. 4 <sup>7</sup> / <sub>8</sub> × 3 <sup>1</sup> / <sub>2</sub> × 1 <sup>3</sup> / <sub>16</sub> inches<br>(123.6 × 88.0 × 20.5 mm)<br>(w/h/d) |
| Mass                  | 11 oz. (310 g)   |
| Operating temperature | 32°F to 95°F (0°C to 35°C)   |
| Storage temperature   | 14°F to 95°F (-10°C to 35°C)   |

## General

### Power consumption

#### Base Station:

Approx. 12 W (watching TV)  
Approx. 0.6 W (power off,  
using AC power adapter)

#### Monitor:

Approx. 55 W (watching TV,  
charging battery)  
Approx. 24 W (watching TV,  
using battery)  
Approx. 43 W (power off,  
charging battery)

Operating temperature 32°F to 95°F (0°C to 35°C)

Storage temperature 14°F to 113°F  
(-10°C to 45°C)

### Dimensions

#### Base Station:

Approx. 2<sup>3</sup>/<sub>8</sub> × 8<sup>3</sup>/<sub>4</sub> × 7<sup>1</sup>/<sub>8</sub> inches  
(5.8 × 22.2 × 18.0 cm)  
(w/h/d, excluding protrusions)

#### Monitor:

Approx. 14<sup>3</sup>/<sub>8</sub> × 9<sup>1</sup>/<sub>2</sub> × 1<sup>1</sup>/<sub>4</sub> inches  
(36.5 × 24.0 × 3.1 cm)  
(w/h/d, excluding protrusions)

### Mass

#### Base Station:

Approx. 1 lbs. 3 oz. (550 g)

#### Monitor:

Approx. 5 lbs. 5 oz. (2.4 kg),  
including the battery

Communication range Indoors: approx. 30 m  
(100 feet) (depending on the environment)

Wireless LAN Standard IEEE802.11 a/b/g

Frequency range 2.4 GHz, 5 GHz

Modulation DS-SS Modem and OFDM Modem

Power requirements AC power adapter: 100 - 240 V AC, 50/60 Hz  
Battery: 4,400 mAh

|                       |  |
|-----------------------|--|
| Battery duration      | Approx. 4 hours (at minimum Backlight)<br>Approx. 3 hours (at medium Backlight)<br>Approx. 100 minutes (at maximum Backlight)  |
| Battery charging time | Approx. 2.5 hours (monitor power on)<br>Approx. 2 hours (monitor power off)  |
| Supplied accessories  | BP-LX1A battery (1)<br>Stylus (1)<br>AC-LX1B AC power adapter for the base station (1)<br>AC-LX1M AC power adapter for the monitor (1)<br>Power cord (2)<br>IR Blaster (1)<br>Base station stand (1)<br>Ferrite core (1)<br>Operating instructions (1)<br>Important software notice (1)<br>Warranty card (1) |

### Optional Accesories

- BP-LX1A rechargeable battery pack
- LFA-F1 splash proof jacket
- LFA-ST1 retractable stylus
- LFA-C1 cradle
- LFA-W1 VESA wallmount attachment
- “Memory Stick” (small IC storage media)
- Headphones
- Audio/video cables
- PC-232S plug adapter
- RK-G138 IR Blaster extension cable
- VM-50 IR Blaster
- VMC-N320TP, VMC-N120TT AV cable

These accessories are available as of 9. 2004.  
Note that these accessories may not be immediately available and that production of them may be stopped at any time.

Design and specifications are subject to change without notice.

## ◆For the LF-X5

### System

|                                    |   |
|------------------------------------|---|
| Television system                  | NTSC  |
| Channel coverage                   | VHF: 2 - 13,<br>UHF: 14 - 69,<br>CATV: 1 - 125  |
| Tuning system                      | PLL synthesizer   |
| Screen size                        | 6.0 × 3 <sup>5</sup> / <sub>8</sub> inches, 7 inches<br>(15.2 × 9.1 cm)<br>(w/h, diagonal)                  |
| Display                            | Transparent TN LCD panel  |
| Drive system                       | TFT<br>Active matrix drive system   |
| Effective picture<br>element ratio | 99.99 %   |
| Effective picture<br>elements      | Horizontal: 800 dots<br>Vertical: 480 lines   |
| Speaker                            | 1 <sup>9</sup> / <sub>32</sub> × 1 <sup>9</sup> / <sub>32</sub> inches<br>(1.5 × 1.5 cm) (w/h)<br>round (2) |
| Audio output                       | 0.5 W × 2, 8 ohms   |

### Web browser

|                  |   |
|------------------|---|
| HTML             | HTML 4.01, XHTML Basic<br>1.0<br>Frame, JavaScript, SSL (V2/<br>3), TLS 1.0, JavaApplet<br>(PJAE 1.2) |
| Image file types | GIF, JPEG, PNG  |
| Macromedia Flash | Ver.6   |
| AdobeReader LE   | V1.0  |

### Mail

|                   |      |
|-------------------|------|
| Transmit protocol | SMTP |
| Receive protocol  | POP3 |

### Album

|                  |   |
|------------------|---|
| Album file types | GIF, JPEG, PNG, BMP, MPG<br>(MPEG1 movie) |
|------------------|---|

### Input/output

#### Base station

|         |                          |
|---------|--------------------------|
| VHF/UHF | 75-ohm external terminal |
| S-VIDEO | 4-pin mini DIN           |

#### VIDEO INPUT1

|        |  |
|--------|--|
| Y:     | 1 Vp-p, 75 ohms<br>unbalanced, sync negative |
| C:     | 0.286 Vp-p (burst), 75 ohms                  |
| Video: | 1 Vp-p, 75 ohms unbalanced,<br>sync negative |
| Audio: | 500 mVrms, Impedance:<br>47 kilohms          |

#### VIDEO INPUT2

|        |  |
|--------|--|
| Video: | 1 Vp-p, 75 ohms unbalanced,<br>sync negative |
| Audio: | 500 mVrms, Impedance:<br>47 kilohms          |

#### VIDEO OUTPUT

|        |  |
|--------|--|
| Video: | 1 Vp-p, 75 ohms unbalanced,<br>sync negative |
| Audio: | 500 mVrms, Impedance: less<br>than 5 kilohms |

|            |   |
|------------|---|
| DC IN      | 12 V DC   |
| ETHERNET   | 10Base-T/100Base-TX<br>Ethernet with RJ-45 interface<br>(1) |
| IR BLASTER | Minijack (1)  |
| USB        | USB 1.1 (2)   |

#### Monitor

|            |   |
|------------|---|
| DC IN      | 12 V DC   |
| Headphones | Stereo minijack<br>Impedance: 16 ohms or more               |
| ETHERNET   | 10Base-T/100Base-TX<br>Ethernet with RJ-45 interface<br>(1) |

## AC power adapter

### AC-LX1B (for the base station)

|                       |  |
|-----------------------|--|
| Power requirements    | 100 - 240 V AC, 50/60 Hz   |
| Rated output          | DC OUT: 12 V DC, 3 A   |
| Operating temperature | 32°F to 95°F (0°C to 35°C)   |
| Storage temperature   | 14°F to 140°F (-10°C to 60°C)  |
| Dimensions            | Approx. 4 × 2 × 1 <sup>1</sup> / <sub>16</sub> inches (99.5 × 49.5 × 25.5 mm) (w/h/d, excluding protrusions) |
| Mass                  | 7 oz. (200 g)  |

### AC-LX5M (for the monitor)

|                       |  |
|-----------------------|--|
| Power requirements    | 100 - 240 V AC, 50/60 Hz   |
| Rated output          | DC OUT: 12 V DC, 3 A   |
| Operating temperature | 32°F to 95°F (0°C to 35°C)   |
| Storage temperature   | 14°F to 140°F (-10°C to 60°C)  |
| Dimensions            | Approx. 4 × 2 × 1 <sup>1</sup> / <sub>16</sub> inches (99.5 × 49.5 × 25.5 mm) (w/h/d, excluding protrusions) |
| Mass                  | 8 oz. (240 g)  |

## BP-LX5A Battery

|                       |  |
|-----------------------|--|
| Rated voltage         | 7.4 V DC   |
| Capacity              | 2,200 mAh  |
| Type                  | Lithium ion battery  |
| Dimensions            | Approx. 5 <sup>7</sup> / <sub>8</sub> × 2 <sup>3</sup> / <sub>4</sub> × 1 <sup>3</sup> / <sub>32</sub> inches (146.2 × 69.8 × 10.1 mm) (w/h/d) |
| Mass                  | 6 oz. (160 g)  |
| Operating temperature | 32°F to 95°F (0°C to 35°C)   |
| Storage temperature   | 14°F to 95°F (-10°C to 35°C)   |

## BP-LX5B Battery

|                       |  |
|-----------------------|--|
| Rated voltage         | 7.4 V DC   |
| Capacity              | 4,800 mAh  |
| Type                  | Lithium ion battery  |
| Dimensions            | Approx. 5 <sup>7</sup> / <sub>8</sub> × 2 <sup>3</sup> / <sub>4</sub> × 1 <sup>3</sup> / <sub>16</sub> inches (146.2 × 69.8 × 20.0 mm) (w/h/d) |
| Mass                  | 8 oz. (220 g)  |
| Operating temperature | 32°F to 95°F (0°C to 35°C)   |
| Storage temperature   | 14°F to 95°F (-10°C to 35°C)   |

## General

### Power consumption

#### Base Station:

Approx. 12 W (watching TV)  
Approx. 0.6 W (power off, using AC power adapter)

#### Monitor:

Approx. 10 W (watching TV, using AC power adapter)  
Approx. 10 W (watching TV, using battery)  
Approx. 18 W (power off, charging battery)

Operating temperature 32°F to 95°F (0°C to 35°C)

Storage temperature 14°F to 113°F (-10°C to 45°C)

### Dimensions

#### Base Station:

Approx. 2<sup>3</sup>/<sub>8</sub> × 8<sup>3</sup>/<sub>4</sub> × 7<sup>1</sup>/<sub>8</sub> inches (5.8 × 22.2 × 18.0 cm) (w/h/d, excluding protrusions)

#### Monitor:

Approx. 8<sup>1</sup>/<sub>8</sub> × 4<sup>3</sup>/<sub>8</sub> × 1<sup>1</sup>/<sub>16</sub> inches (20.6 × 11.1 × 2.6 cm) (w/h/d, excluding protrusions)

### Mass

#### Base Station:

Approx. 1 lbs. 3 oz. (550 g)

## Monitor:

|                       |  |
|-----------------------|--|
|                       | Approx. 1 lbs. 4 oz. (555 g), including the battery (BP-LX5A)  |
|                       | Approx. 1lbs. 6 oz. (627g), including the battery (BP-LX5B)  |
| Communication range   | Indoors: approx. 30 m (100 feet) (depending on the environment)  |
| Standards             | IEEE802.11 a/b/g   |
| Frequency range       | 2.4 GHz, 5 GHz   |
| Modulation            | DS-SS Modem and OFDM Modem   |
| Power requirements    | AC power adapter: 100 V AC, 50/60 Hz<br>Battery: 2,200 mAh (BP LX5A)<br>4,800 mAh (BP LX5B)  |
| Battery duration      | BP-LX5A Approx. 80 minutes (at minimum Backlight)<br>BP-LX5B Approx. 2 hours 50 minutes (at minimum Backlight)   |
| Battery charging time | BP-LX5A Approx. 80 minutes<br>BP-LX5B Approx. 3 hours  |
| Supplied accessories  | BP-LX5A battery (1)<br>BP-LX5B battery (1)<br>Stylus (1)<br>AC-LX1B AC power adapter for the base station (1)<br>AC-LX5M AC power adapter for the monitor (1)<br>Power cord (2)<br>IR Blaster (1)<br>Base station stand (1)<br>Operating instructions (1)<br>Important software notice (1)<br>Warranty card (1)<br>Carrying case (1) |

## Optional Accesories

BP-LX5B rechargeable battery  
LFA-ST5 Stylus  
Memory Stick Duo Adaptor for CompactFlash™ Slot (MSAC-MCF1N)  
Headphones  
Audio/video cables  
PC-232S plug adapter  
RK-G138 AV mouse extension cable  
VM-50 IR Blaster

These accessories are available as of 9. 2004. Note that these accessories may not be immediately available and that production of them may be stopped at any time.

Design and specifications are subject to change without notice.

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