Panasonic®

Operating Instructions
Digital High Definition Plasma Television

Model No. **TH-42PX600U**
TH-50PX600U
TH-58PX600U

DOLBY DIGITAL · HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE · SD · ViVA HD3D Sound BBE. · BBE® High Definition Sound · TV GUIDE

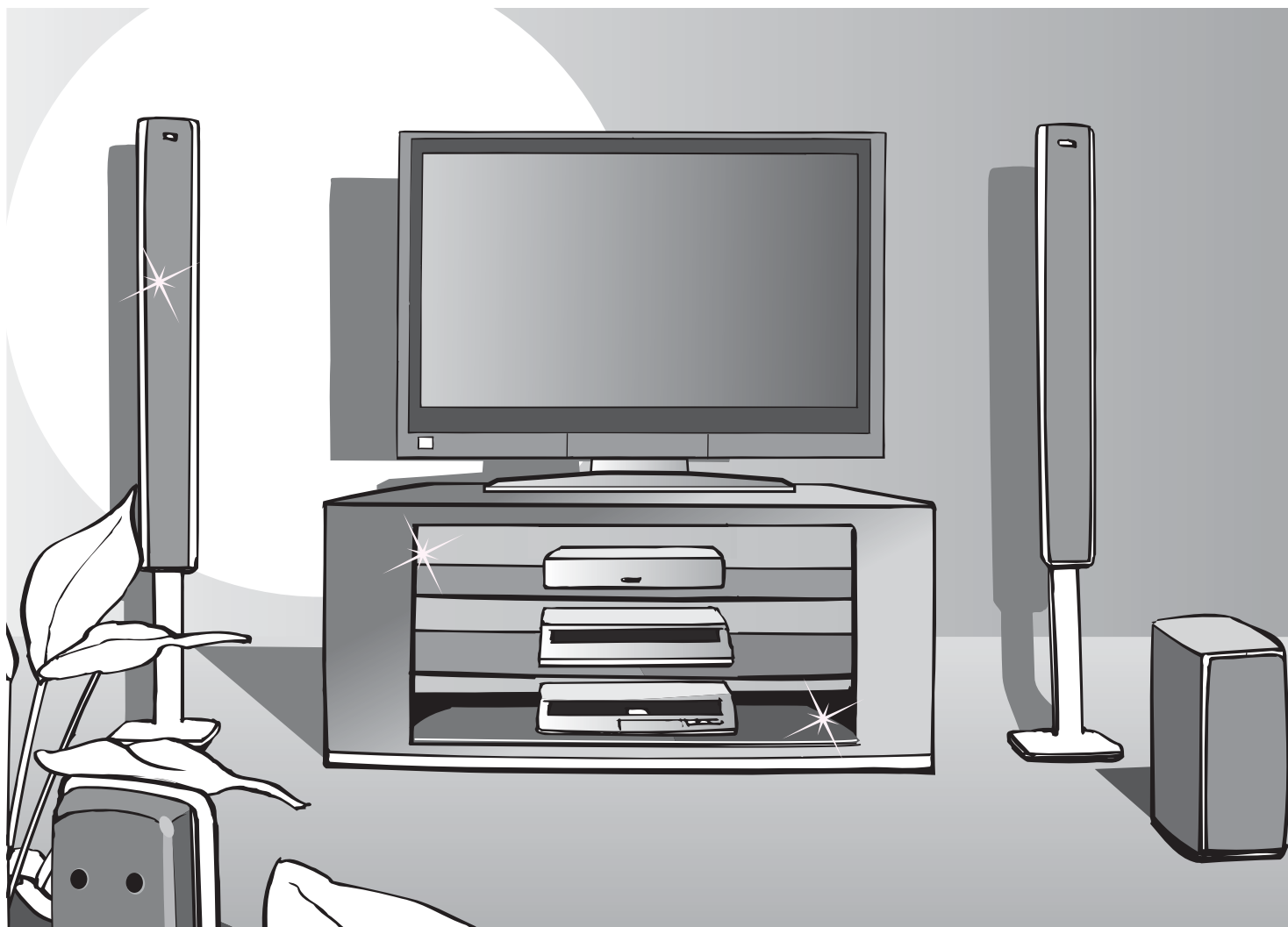| For assistance, please call : 1-888-VIEW-PTV (843-9788)	
or contact us at www.panasonic.com/contactinfo	(U.S.A.)
For assistance, please call : 787-750-4300	
or visit us at www.panasonic.com	(Puerto Rico)
For assistance, please call : 1-800-561-5505	
or visit us at www.panasonic.ca	(Canada)

Please read these instructions before operating your set and retain them for future reference.
The images shown in this manual are for illustrative purposes only.

Turn your own living room into a movie theater!
Experience an amazing level of multimedia excitement

Contents

Enjoy rich multimedia

SD memory card

Camcorder

Personal computer

Amplifier
Home theater unit

VCR   DVD player

DVD recorder   Set Top Box

ViVA HD3D Sound BBE. | Manufactured under license from BBE Sound, Inc.

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CableCARD™ is a trademark of Cable Television Laboratories, Inc.

HDAVI Control™ is a trademark of Matsushita Electric Industrial Co., Ltd.

SD Logo is a trademark.

ENERGY STAR

Please read before using the unit

Enjoy your TV !
Basic Features

Advanced Features

FAQs, etc.

Safety Precautions

CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

**WARNING: To reduce the risk of electric shock, do not remove cover or back.
No user-serviceable parts inside. Refer servicing to qualified service personnel.**

The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Do not place liquid containers (flower vase, cups, cosmetics, etc.) above the set (including on shelves above, etc.).

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.
15) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.

FCC STATEMENT

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 to 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.

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.

**FCC CAUTION:
Pursuant to 47CFR, Part 15.21 of the FCC rules, any changes or modifications to this TV not expressly approved by Panasonic Corporation of North America could result in harmful interference and would void the user's authority to operate this device.**

**FCC Declaration of Conformity
Model No. TH-42PX600U, TH-50PX600U, TH-58PX600U**

Responsible Party: Panasonic Corporation of North America
One Panasonic Way, Secaucus, NJ 07094
Contact Source: Panasonic Consumer Electronics Company
1-888-VIEW-PTV (843-9788)
email: consumerproducts@panasonic.com

CANADIAN NOTICE:
For Models TH-42PX600U, TH-50PX600U, TH-58PX600U
This Class B digital apparatus complies with Canadian ICES-003.

⚠ WARNING

SMALL PARTS CAN PRESENT CHOKING HAZARD IF ACCIDENTALLY SWALLOWED.
KEEP SMALL PARTS AWAY FROM YOUNG CHILDREN. DISCARD UNNEEDED SMALL PARTS AND OTHER OBJECTS, INCLUDING PACKAGING MATERIALS AND PLASTIC BAGS/SHEETS TO PREVENT THEM FROM BEING PLAYED WITH BY YOUNG CHILDREN, CREATING THE POTENTIAL RISK OF SUFFOCATION.

■Set up
Do not place the Plasma TV on sloped or unstable surfaces.
● The Plasma TV may fall off or tip over.
Do not place any objects on top of the Plasma TV.
● If water spills onto the Plasma TV or foreign objects get inside it, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the Plasma TV, please consult an Authorized Service Center.

This Plasma TV is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability which could result in the possibility of injury.
(All of the following accessories are manufactured by Matsushita Electric Industrial Co., Ltd.)
  • Wall-hanging bracket (Vertical) TY-WK42PV3U
  • Wall-hanging bracket (Angled) TY-WK42PR3U
  • Plasma TV stand   TY-S42PX600W (TH-42PX600U)
                TY-S50PX600W (TH-50PX600U)
                TY-S58PX600W (TH-58PX600U)
Always be sure to ask a qualified technician to carry out set-up.

■AC Power Supply Cord
The Plasma TV is designed to operate on 120 V AC, 50/60 Hz. Securely insert the power cord plug as far as it will go.
● If the plug is not fully inserted, heat may be generated which could cause fire. If the plug is damaged or the wall socket plate is loose, they should not be used.
Do not handle the power cord plug with wet hands.
● Doing so may cause electric shocks.
Do not do anything that might damage the power cable. When disconnecting the power cable, hold the plug, not the cable.
● Do not make any modifications to, place heavy objects on, place near hot objects, heat, bend, twist or forcefully pull the power cable. Doing so may cause damage to the power cable which can cause fire or electric shock. If damage to the cable is suspected, have it repaired at an Authorized Service Center.

■If problems occur during use
If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odor is detected from the Plasma TV, unplug the power cord immediately.
● Continued use of the TV under these conditions might cause fire or permanent damage to the unit. Have the TV evaluated at an Authorized Service Center. Servicing of the TV by any unauthorized personnel is strongly discouraged due to its high voltage dangerous nature.
If water or foreign objects get inside the Plasma TV, if the Plasma TV is dropped, or if the cabinet becomes damaged, disconnect the power cord plug immediately.
● A short may occur, which could cause fire. Contact an Authorized Service Center for any repairs that need to be made.

⚠ CAUTION

Do not cover the ventilation holes.
● Doing so may cause the Plasma TV to overheat, which can cause fire or damage to the Plasma TV.
If using the pedestal, leave a space of 3 15/16" (10 cm) or more at the top, left and right, 2 3/8" (6 cm) or more at the bottom, and 2 3/4" (7 cm) or more at the rear.

■When using the Plasma TV
Be sure to disconnect all cables before moving the Plasma TV.
● Moving the TV with its cables attached might damage the cables which, in turn, can cause fire or electric shock.
Disconnect the power plug from the wall outlet as a safety precaution before carrying out any cleaning.
● Electric shocks can result if this is not done.
Clean the power cable regularly to prevent it from becoming dusty.
● Built-up dust on the power cord plug can increase humidity which might damage the insulation and cause fire. Unplug the cord from the wall outlet and clean it with a dry cloth.
This Plasma TV radiates infrared rays; therefore, it may affect other infrared communication equipment.
Install your infrared sensor in a place away from direct or reflected light from your Plasma TV.
Do not climb up onto the television or use it as a step. (Young children should be made particularly aware of this caution.)
● If the unit falls over or becomes damaged through misuse, injury may result.
The TV will still consume some power as long as the power cord is inserted into the wall outlet.

Notes

■Do not display a still picture for a long time
This causes the image to remain on the plasma screen ("after image"). This is not considered a malfunction and is not covered by the warranty.

Typical still images
● Channel number and other logos
● Image displayed in 4:3 mode
● SD Card photo   ● Video game   ● Computer image

To prevent after image, the screen saver is automatically activated after a few minutes if no signals are sent or no operations are performed. (p. 59)

■Setup
● Do not place the unit where it's exposed to sunlight or other bright light (including reflections).
● Use of some types of fluorescent lighting may reduce the remote control's transmission range.

5

Accessories/Options

☑ **Check you have all the items shown.**

Accessories
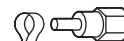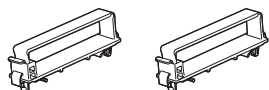
☐Remote Control Transmitter
●EUR7737Z10

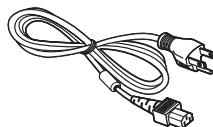☐Batteries for the Remote Control Transmitter (2)
●AA Battery

☐Antenna Adapter
●F-Type for 5C-2V

☐Cable clamper (2)

☐AC cord

☐IR Blaster
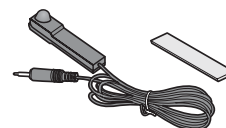
☐Pedestal
●TBL2AX00021 (TH-42PX600U)
●TBL2AX00061 (TH-50PX600U)
●TBL2AX00071 (TH-58PX600U)
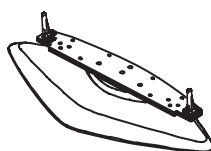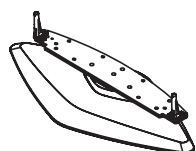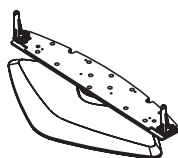
☐Operating Instructions
☐Product Registration Card (U.S.A.)
☐Customer Care Plan Card (U.S.A.)

Installing remote's batteries

① Open

Hook

② Close
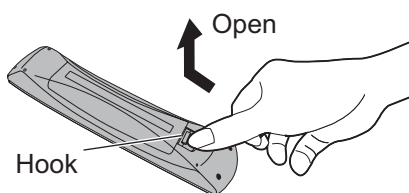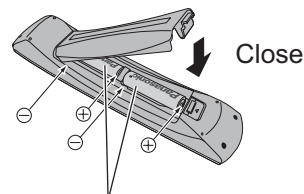
Note the correct polarity (+ or -).

Caution

●Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control unit.
  ●Do not mix old and new batteries.
  ●Do not mix different battery types (such as alkaline and manganese batteries).
  ●Do not use rechargeable (Ni-Cd) batteries.
●Do not burn or break batteries.
●Make a note of the remote control codes before changing batteries in case the codes are reset. (p. 49-50)

Optional accessories

Wall-hanging bracket (vertical)
●TY-WK42PV3U (TH-42PX600U, TH-50PX600U, TH-58PX600U)
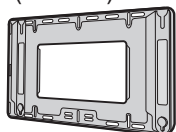
Wall-hanging bracket (angle)
●TY-WK42PR3U (TH-42PX600U, TH-50PX600U)
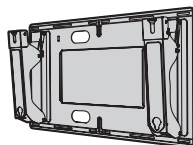
Plasma TV stand
●TY-S42PX600W (TH-42PX600U)
●TY-S50PX600W (TH-50PX600U)
●TY-S58PX600W (TH-58PX600U)
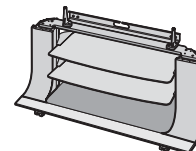
Note

●In order to maintain the unit's performance and safety, be absolutely sure to ask your dealer or a licensed contractor to secure the wall-hanging brackets.
●Carefully read the instructions accompanying the plasma TV stand or pedestal, and be absolutely sure to take steps to prevent the TV from tipping over.
●Handle the TV carefully during installation since subjecting it to impact or other forces may cause its paneling to crack.

Attaching the pedestal to the plasma television

Warning

Do not disassemble or modify the pedestal.
●Otherwise the unit may fall over and become damaged, and personal injury may result.

Caution

Do not use any television or displays other than those given in this manual.
●Otherwise the unit may fall over and become damaged, and personal injury may result.
Do not use the pedestal if it becomes warped or physically damaged.
●If you use the pedestal while it is physically damaged, personal injury may result. Contact your nearest Panasonic Dealer immediately.
During setting-up, make sure that all screws are securely tightened.
●If sufficient care is not taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the plasma television, and it might fall over and become damaged, and personal injury may result.
Use the accessory fall-prevention brackets to secure the plasma television.
●If the unit is knocked or children climb onto the pedestal with the Plasma TV installed, the plasma television may fall over and personal injury may result.
Two or more people are required to install and remove the television.
●If two people are not present, the television may be dropped, and personal injury may result.
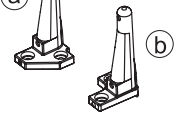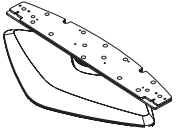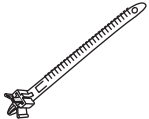
Accessories for pedestal assembly

Ⓐ Assembly screw (4)	Ⓑ Assembly screw (4)	Ⓒ Pole (2)	Ⓓ Base (1)	Ⓔ Band (2)
(for 42″ and 50″) M5 x 18 (for 58″) M5 x 25	M5 x 65	ⓐ ⓑ		

① **Assembling the pedestal**

Using the four assembly screws Ⓐ , securely fasten the left and right poles to the base, as shown in the illustration below.

Pole (▽) ⓐ   Front

Pole

Ⓐ

Pole   Pole

Pole (○) ⓑ   Front

Align the stamped marks.

Align the stamped marks.
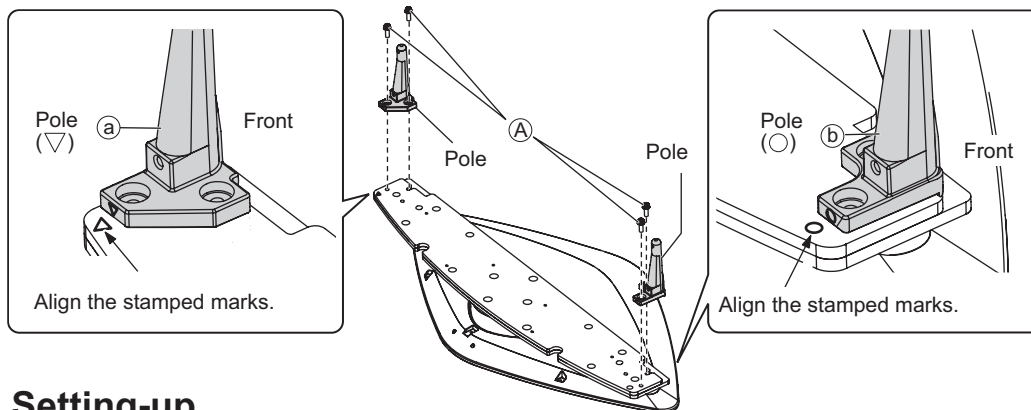
② **Setting-up**

Television unit
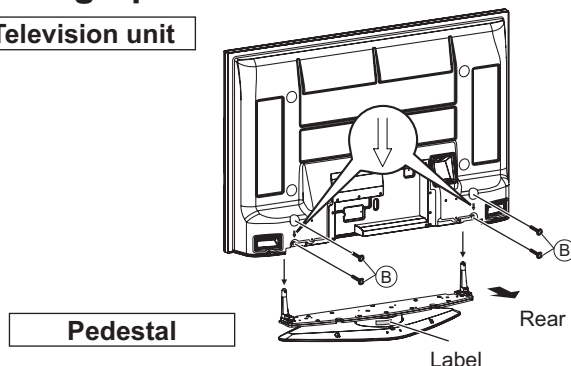
* Carry out work on a horizontal and level surface.

Lift the television unit above the pedestal base, with the back of the display unit on the same side as the Label. Then align the holes in the television unit with the poles of the pedestal and lower the television unit into place.
Use the assembly screws Ⓑ (M5 x 65) to fasten securely.

Ⓑ

Ⓑ

Pedestal

Rear

Label
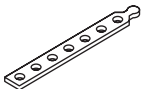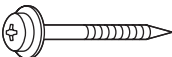
Accessories/Options

Preventing the plasma television from falling over

* The plasma TV must be fastened to both the base and the wall.

For 42" Plasma television

Accessories for pedestal security

① Band (1)	② Screw (3)	③ Wood screw (1)	④ Clamp (2)
	Nominal diameter 4 mm x 10		

■**Securing to a base**

screw ②

Ⓓ

Wood screw ③

Band ①

Fasten with wood screws in the holes in the back edge of the wood worktop. If there are no holes, first drill them in the middle of the thickness of the wood worktop, and then fasten the strap with wood screws.

■**Securing to a wall**

screw ②

Wall

Clamp ④

* Use strong wire or chain which is commercially available to secure the plasma television to a solid area of the wall or a pillar.
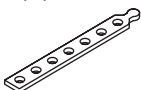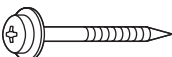
For 50" Plasma television

Accessories for pedestal security

① Band (2)	② Screw (2)	③ Wood screw (2)	④ Clamp (2)
	Nominal diameter 4 mm x 12		

■**Securing to a base**

Front

Screw ②

Wood Worktop

Ⓓ

① Band

③ Wood Screw

Fasten with wood screws in the holes in the back edge of the wood worktop. If there are no holes, first drill them in the middle of the thickness of the wood worktop, and then fasten the strap with wood screws.

■**Securing to a wall**

Clamp ④

Screws on main body

* Remove the screws at both top corners on the rear side of the plasma TV, and attach the clamps ④ to the plasma TV using the removed screws.

• Securing method

Clamp ④

* Use strong wire or chain which is commercially available to secure the plasma television to a solid area of the wall or a pillar.

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Accessories for pedestal security

① Band (3)	② Screw (3)	③ Wood screw (3)	④ Hook (2)	⑤ Hook securing screw (2)
	Nominal diameter 4 mm x 12			M8 x 35

■Securing to a base

■Securing to a wall

Hook ④

Hook securing screw ⑤

Screw ②

Band ①

D

Wood screw ③

Fasten with wood screws in the holes in the back edge of the wood worktop. If there are no holes, first drill them in the middle of the thickness of the wood worktop, and then fasten the strap with wood screws.

• Securing method

Hook ④
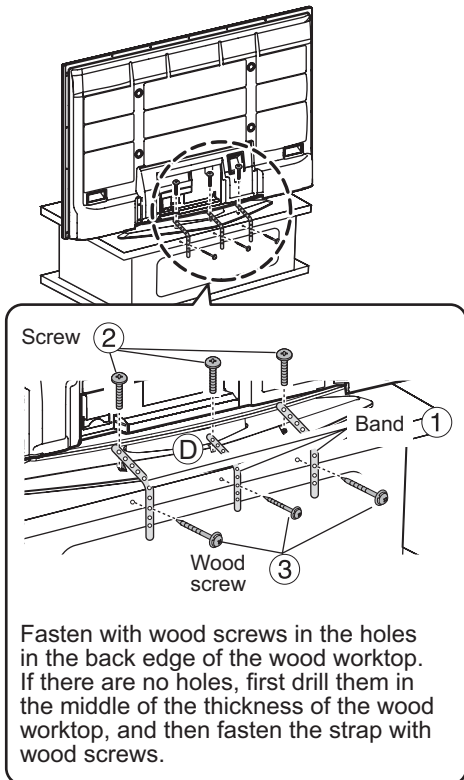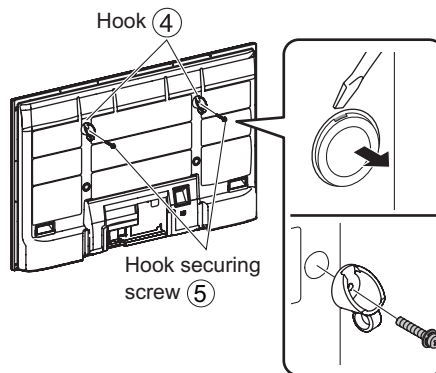
* Use a flat-head screwdriver to remove the caps at the left and right top on the rear side of the plasma TV, and attach the hooks ④ to the plasma TV using the hook securing screws ⑤. (Keep the caps you have removed in a safe place.)
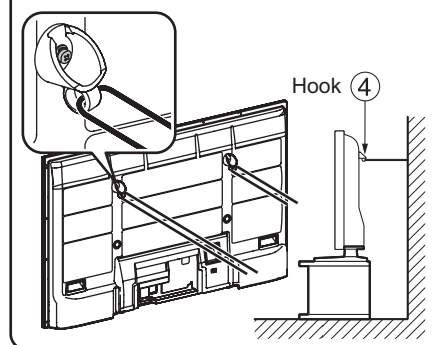
* Use a strong wire or chain which is commercially available to secure the hooks ④ to a solid area of the wall or pillar.

Quick Start Guide

● Accessories/Options

9

Connection

■Watching TV

Back of the unit

VHF/UHF Antenna

Cable TV   or

or

ANTENNA
Cable In

INSERT THIS END

CableCARD™

F-Type
Antenna
Adapter

DIGITAL
AUDIO
OUT

VIDEO

Y

PB

PR

AUDIO

R

AUDIO
IN

PC

COMPONENT VIDEO
INPUT
1   2

S VIDEO

VIDEO

AUDIO

R

INPUT
1

INPUT
2

HDMI 2
AUDIO IN

VIDEO

AUDIO

R
TO AUDIO AMP

PROG OUT

Fastener

● To unfasten

②   ①

AC cord
(Connect after all the
other connections.)

ANT IN

ANT OUT

S-Video
OUT

Video
OUT

L
Audio
OUT
R

S-Video signals have
priority.

**Video recorder
with TV Tuner**
(DVD Recorder /)
(VCR)

Video
IN

L
Audio
IN
R

To record TV shows

Note

● All cables and external equipment shown in this book are not supplied with the TV.
● For additional assistance, visit us at : www.panasonic.com
www.panasonic.ca
● The S Video input will override the composite video signal when S Video cable is connected.
Connect either S Video cable or Video cable.
● When receiving digital channel signals, all digital formats are down-converted to composite NTSC video to be
output through the PROG.OUT terminals.
● Some programs contain a copyright protection signal to prevent VCR recording.
● When the copyright protection program is displayed, do not connect the other TV monitor through a VCR. Video
signals fed through VCRs may be affected by copyright protection systems and the picture will be distorted on the
other TV monitor.
● Set the TV channel to CH3 or CH4 for using Cable Box Connection.

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CableCARD™ Connection

CableCARD™ allows you to tune digital and high definition cable channels through the cable antenna. Consult your cable company on the availability of CableCARD™.

1. Connect the cable antenna to ANT connector.
2. Turn the TV on (see page 17).
3. Set the input mode to TV (see page 29).
4. Insert the CableCARD™ (with upper side facing you) as far as it will go into the CableCARD™ slot on the back of the TV. Follow the messages displayed on the screen.

Back of the TV

Insert mark (e.g.)

ANTENNA Cable In

Upper side of the card facing you

(The CableCARD™ design varies depending on the manufacturer.)
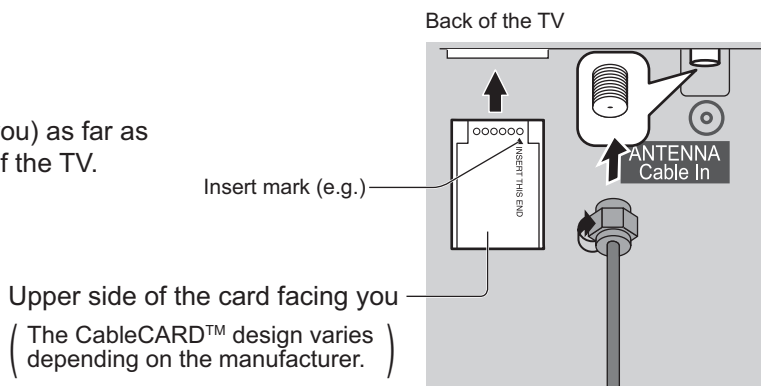
Note

● If you experience front panel control or remote control function hang-up when using CableCARD™ , unplug the TV and plug it back on and try the controls again. If this condition persists, please call Panasonic Customer Call Center for further instructions.
● Do not insert a PCMCIA card into CableCARD™ slot.

Cable Binding Instructions

■Fixing connection cables and AC cord

Example of "connection cable routing"
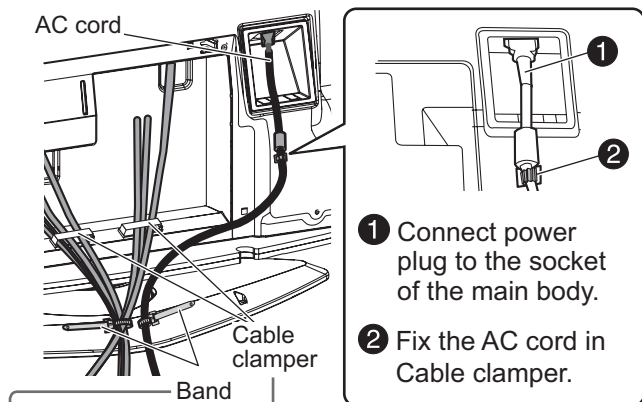
AC cord

❶ Connect power plug to the socket of the main body.

❷ Fix the AC cord in Cable clamper.

Cable clamper

Band

How to fix:

Fix by pushing in till a clicking sound is heard.

How to release:

Pull up while drawing the knob.

● Do not bundle the RF cable and AC cord together (could cause distorted image).
● Fix cables with Cable clampers as necessary.
● When using the optional accessory, follow the option's assembly manual to fix cables.

■Attach the bands
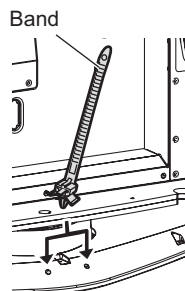
Band

Fastening band
Insert the spigot on the two bands into the pedestal.

Fastening
push the tip of the band in the direction indicated by the arrow.
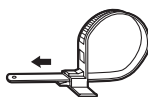
Loosening
While pressing down on the tab, gently push the tip of the band in the direction indicated by the arrow.

Tab
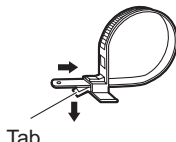
■Attaching the Cable clampers

Snap open	Snap shut
Remove from the TV unit	

Push both side hooks and pull out

Identifying Controls

Display the TV Guide.

Display the Main menu.

SD CARD slot

Change the TV Channel.
(Move cursor to up
or down during menu
mode.)

Video
Input 3
connector

Choose menu and
submenu entry.

Adjust the volume level.
(Move cursor to right or left during menu
mode.)

Changes the input mode.

POWER
button

Remote
control
sensor

C.A.T.S. sensor

Swing up the door at "PULL".

Plasma C.A.T.S. (Contrast Automatic Tracking System). (p. 32)

Power indicator (on: red, off: no light)

Viewing from SD Card (p. 26)

Switches TV to On or Standby

SAP (p. 19)

Sets the remote to communicate with
other equipment (p. 45)

Changes the input mode (p. 29)

Exit menus

Select/OK/Change

Display Main Menu (p. 32)

RETURN (to previous menu)

Press to enter the TV Guide

Page scroll on TV Guide

Press to display an information
screen on TV Guide

Display or remove the channel
banner (p. 18)

Sound mute On/Off

Operate the Favorite channel list
function. (p. 19)

Changes aspect ratio (p. 18)

Numeric keypad to select any
channel (p. 17) or press to enter
alphanumeric input in menus.
(p. 29, 30, 38, 40, 45)

Switch to previously viewed channel
and input modes.

Direct channel access for DTV and
DBS (p. 17)

Channel up/down buttons

Volume

Sleep Timer (p. 18)

External equipment operations
(p. 29, 48) (VCRs, DVDs, etc.)

SPLIT
Split Screen (p. 18)

SWAP
Swap pictures in SPLIT operation (p. 18)

Panasonic

TV

First Time Setup

"First time setup" is displayed only when the TV is turned on for the first time after the AC cord is inserted into a wall outlet. Available only when "Auto power on" (p. 32) is set to "Off".

1 Turn the TV On with the POWER button

POWER

2 Select your language

First time setup	
Language	
Clock	
Auto program	

next

Language	
Language	◄ **English** ►

select

→ English ↔ Español ↔ Français ←

RETURN

Press to go to previous screen.
Or, select ◄┘ icon, then press OK for same results.

■ **Press to exit**
EXIT

■ **Press to return to previous screen**
RETURN

3 Adjust the clock

First time setup	
Language	
Clock	
Auto program	

② next
① select "Clock"

Clock	
Date	◄ **4 / 1 / 2006** ►
Time	9 : 43 AM

② set
① select item
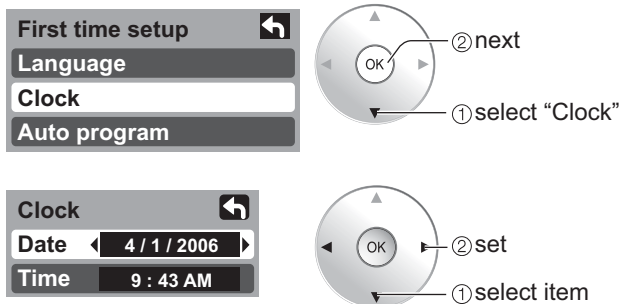
Date: Adjust the date
       (Press and hold to change the month.)
Time: Adjust the time
       (If the button is held, the speed of change increases.)

Note

● To change setting (Language/Clock/Auto program) later, go to Menu screen (p. 32)

First Time Setup
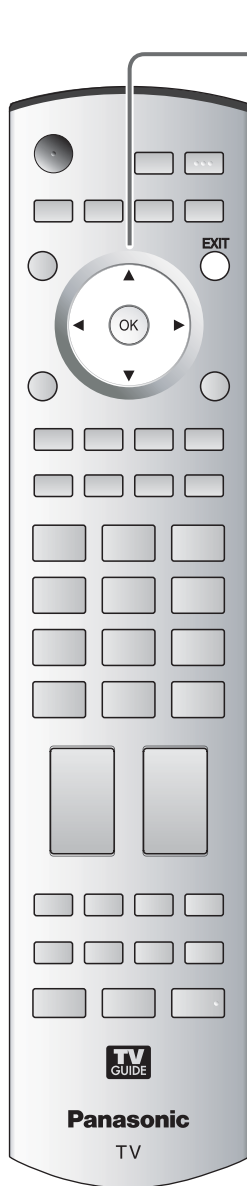
4 **Auto channel setup**

①**Select "Auto program"**

First time setup	⤺
Language	
Clock	
Auto program	

② next
① select
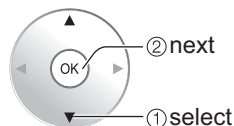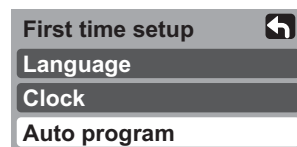
②**Select antenna and input modes**

Auto program	⤺
ANT In	◀ **Cable** ▶
Mode	**All**
Start scan	

② set
① select
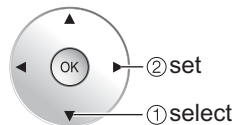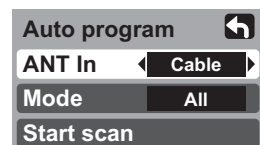
ANT In

Cable: Cable TV
Antenna: Antenna

Mode

All: digital and analog
Analog: analog only
(Reduces time for scanning)

③**Start scanning the channels**

Auto program	⤺
ANT In	**Cable**
Mode	**All**
Start scan	

② start
① select "Start scan"

Now scanning analog channel ...	
Progress	⤺
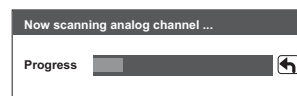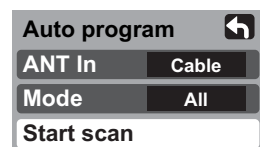
● Available channels (analog/digital) are automatically set.

④**Confirm registered channels**

	Edit	Apply	⤺
Favorite		**Add**	
- - -		No	
2		Yes	

① select "Apply"
② ok
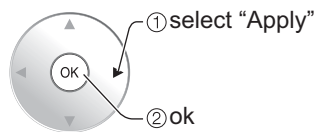
●If OK is not pressed after selecting "Apply", the channels will not be memorized.

■**Press to exit**
EXIT

5 **INITIAL GUIDE SETUP for TV Guide**

TV Guide On Screen interactive program guide
Built-in to this TV!
• 8 days of listings
• Powerful show searches
• One-touch recordings
• Subscription free
TV made easy.
Just press OK on your remote to begin!   START ▸

start

Follow the instructions on the screen to perform setup. (p. 20-25)

Panasonic
TV

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INITIAL GUIDE SETUP for TV Guide

The TV Guide Welcome Screen is displayed when you use TV Guide function for the first time, or at first time setup. (p. 13)
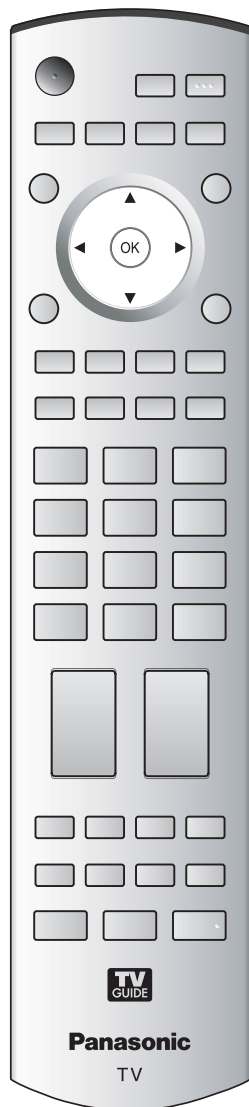
1 Identify Your Location

The Guide uses setup information to provide TV show listings and channel lineups for your area.

a. Select Your Country

Which country is your TV located in?

| USA | Next ▸ |
| Canada | |

b. Use the numeric keys or ▲/▼ to enter a ZIP Code or Postal Code.

Please enter the 5-digit ZIP Code where your TV is located:

| = | = | = | = | = | Next ▸ |
| | | | | | ◂ Back |

2 Select Your Service(s)

Select the connected video source(s) for which you would like to receive show listings.

Please select which service(s) you would like your TV Guide On Screen™ to support (check all that apply):

| ✓ Antenna | Next ▸ |
| Cable without a Cable Box | ◂ Back |

Note

● If you do not have cable, you must select Antenna in order to receive a channel lineup and listings.

3 Configure Your Service(s)

For each service you chose in Step 2, you are asked to select the corresponding input.
Additional setup screens appear based on the types of service(s) you selected.

4 Check Your Settings

After you have configured all services you selected in Step 2 you are asked to check your settings.

TV GUIDE Check Your Settings

You have entered the following TV Guide On Screen system settings. If any setting is marked INCOMPLETE, you will not be able to use that feature until you complete that portion of TV Guide On Screen system setup.

ZIP Code — 01730 (USA)
Antenna on "Antenna B"

Are the above settings correct?

| Yes, continue setup process | Next ▸ |
| No, repeat setup process | ◂ Back |

If you select **No, repeat setup process**, return to Step 1.

⑤ Configure Your VCR

Would you like to use the TV Guide On Screen system to control recording with your VCR?

Yes, set up VCR control   Next ▸
No, end setup   ◂ Back
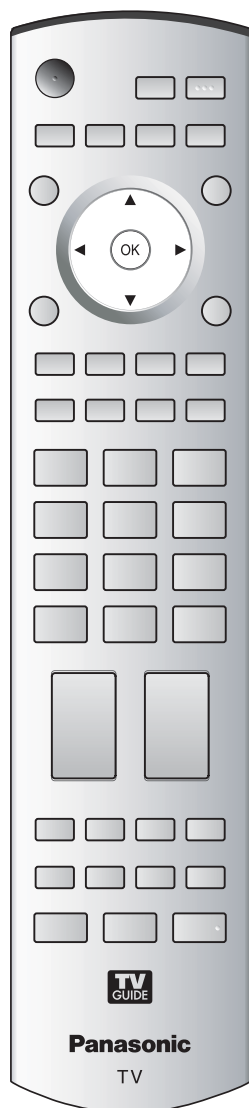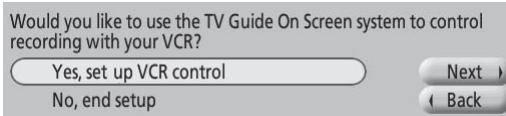
If you want to use TV Guide On Screen Listings to schedule recordings to your VCR, answer Yes, set up VCR control.

Additional screens ask you to
• Confirm remote control options
• Confirm the external connections.
• Select the VCR brand.
• Test and confirm the remote code.
If you do not want the Guide to control recording to your VCR, answer **No, end setup** and go to Step 6.

⑥ Complete Setup

The Helpful Information screen is displayed when you successfully complete Guide setup.

TV GUIDE Helpful Information

Congratulations on your TV Guide On Screen setup!

Within 24 hours after your TV is powered OFF, you should begin to get listings.
Press TV GUIDE on your remote:
▸ If listings are not yet available, you'll see a TV Guide Setup Progress Screen.
▸ If listings are available, you'll see a listings grid.
(Note: It may take up to 6 days to get the full 8 days of listings.)

To make sure you get the latest daily listings updates, remember:
▸ TV – OFF
▸ To record, remember to turn your VCR OFF.

And don't forget to update your TV Guide On Screen Setup if you:
▸ move to a new ZIP code
▸ change a service
▸ add or remove a device (cable or satellite box, or VCR)
Just press TV GUIDE and choose the "Change system settings" option.

Next ▸
◂ Back

⑦ View Setup Progress Screen

The setup progress screen appears each time you enter the Guide prior to receiving your initial eight days of show listings. To close the screen press ◂ or [OK].

| TV GUIDE | 8:54 | SCHEDULE | LISTINGS | SEARCH | SETUP |

ⓘ INFO

Video Not Available

The TV Guide On Screen system obtains channel and program information when your unit is turned off. When completed, the LISTINGS grid will display.

Welcome To TV GUIDE ON SCREEN
select for more information

Using TV GUIDE ON SCREEN
select for more information

TV Guide On Screen Setup Progress
Note: It may take up to 24 hours to start receiving listings.

STEP	STATUS
search for time	Done: 8:01pm
search for TV stations	In Progress
search for channel lineup	In Progress
listings transmission	In Progress

Caution

● In order to begin to receive your listings, power Off the TV when not in use. Within 24 hours, you will begin to receive TV show listings. It may take up to six days to receive the full eight days of initial show listings.

Watching TV

Insert the CableCARD™ when watching cable TV. (p. 11)

1 **Switch to TV mode**

TV

2 **Turn power on**

POWER

● POWER button on unit should be On.

TV Guide open up

Will & Grace "Strangers with Candice" (Sitcom) Candice Bergen guest stars as herself, reveling in a silly one-upmanship battle with her old friend Karen at a fancy restaurant. Eric McCormack, Debra Messing, Megan Mullally. TV14 /1.

TODAY	8.3PM	9.00PM	9.30PM
	Medici	Frontline World	
	Without a Trace	CSI: Crime Scene Investigation	
	Remarkable	Stephen King's Kingdom Hospital	
	Come to Papa	Will & Grace	Scrubs
	Pepsi Smash	Jamie Kennedy	Jamie Kennedy
	North Shore	Tru Calling	
	WWE SmackDown!		
	Sabrina, the	Full House	Full House

3 **Close TV Guide**

EXIT

4 **Select a channel number**

CH ^ — up
CH ∨ — down

or

1 2 3
4 5 6
7 8 9
0

■ **To directly input the digital channel number**

PROG– ● When tuning a digital channel, press the button to enter the minor number in a compound channel number.

example: CH15-1: 1 5 PROG– 1

Note

● Reselect "Cable" or "Antenna" in "ANT In" of "Auto program" to switch the signal reception between cable TV and antenna. (p. 14)
● The channel number and volume level remain the same even after the TV is turned off.

To not display TV Guide when turning power On

TV GUIDE
①
②**Select "SETUP"**

SCHEDULE   LISTINGS   SEARCH   SETUP

select

③**Select "Change default options" and press "OK" button**
④**Select "General defaults" and press "OK" button**
⑤**Select "auto guide" and set "off"**
⑥**Select "done" and press "OK" button**

Watching TV

Sleep Timer

Switches the unit OFF in a preset amount of time from 0 to 90 minutes in 30 minute intervals.

SLEEP ● 0/30/60/90 (minutes)
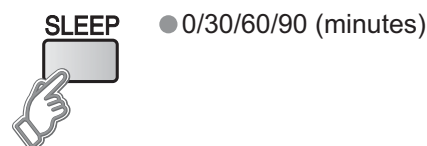
Information Recall

Display or remove the channel banner.

RECALL

Channel	Ending time	Show title	Clock

| 15-2 ABC - HD | - 10:30 | Andrew's cooking show | 10:00 am |
| | CC **SAP** TV-G 1080I Standard 4 : 3 | | 🕐 30 |

Station identifier | SAP | Signal resolution | Picture mode | Sleep timer remaining time

Rating Level | Aspect ratio
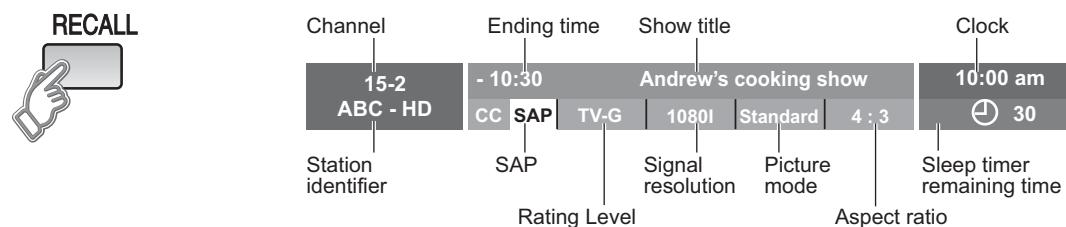
Change aspect ratio

Change the aspect (p. 52)

ASPECT

4
4 : 3
3

● Press button to cycle through the aspect modes.
● 480i (4:3), 480i (16:9), 480p (4:3), 480p (16:9) : FULL, JUST, 4:3 or ZOOM
● 1080p / 1080i / 720p : FULL, H-FILL, JUST, 4:3 or ZOOM.

Split - Screen

Watch in multi window
(Audio is from Main picture only)

● Left window (Main picture)
Screen enlargement and volume adjustment are available.

● Right window (SPLIT frame)
The previously selected screen appears.
TV channel or Video input signal can be changed on SPLIT frame.

◄◄ SPLIT

2 Video1 → P Out P ⟷ Normal

ASPECT   ASPECT

►►I SWAP   ►►I SWAP   ►►I SWAP

Video1 2   Video1 2   Video1 2

                ►►I SWAP   ►►I SWAP

                2 Video1   2 Video1

■ Select Audio Mode for TV Viewing
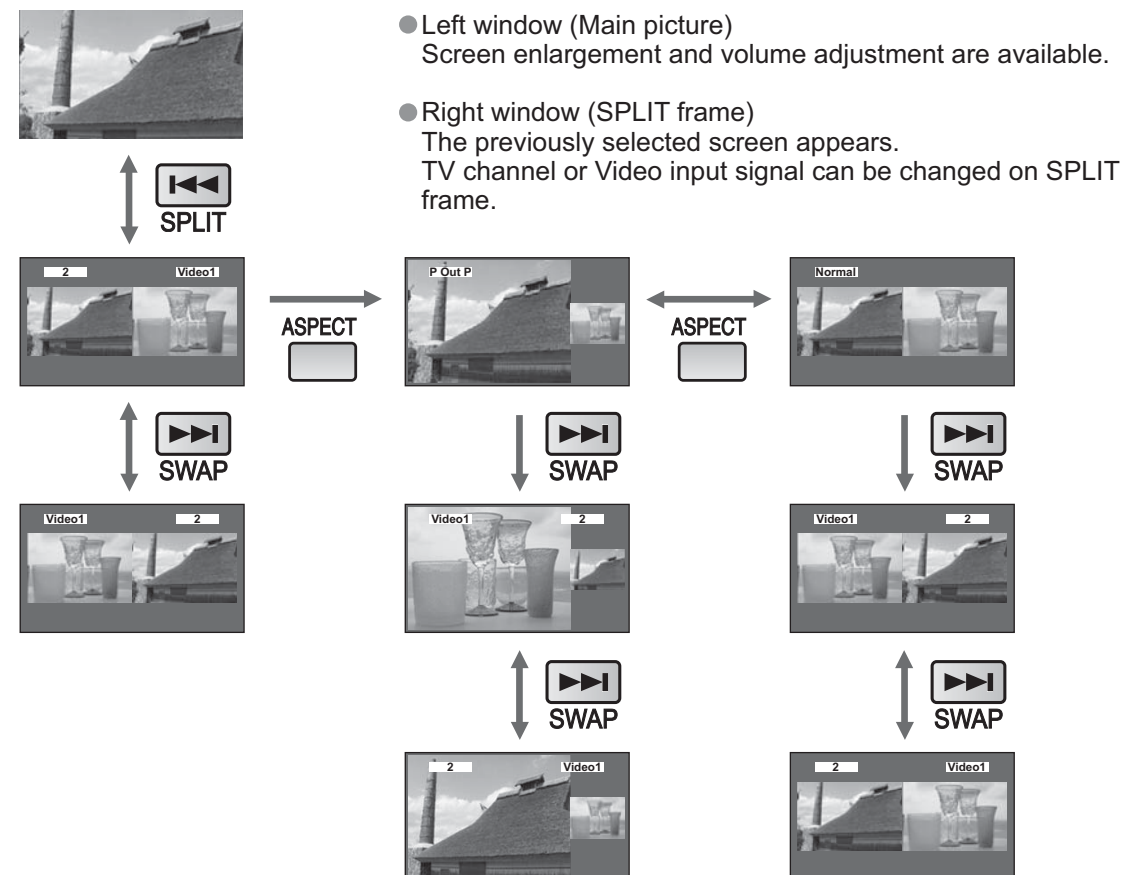
Listen with SAP (Secondary Audio Program)

SAP

● **Digital mode**
Press SAP to select the next audio track (if available) when receiving a digital channel.

Audio track 1 of 1
(English)

● **Analog mode**
Press SAP to select the desired audio mode.
• Press the SAP button to cycle through the audio modes. (Stereo/SAP/Mono).

Call up a favorite channel

FAVORITE

■ **FAVORITE**
Channel numbers registered in Favorite are displayed on the favorite tune screen. Select the desired broadcast station with the cursor, or using number keys. (see below)

Set Favorite Feature

1 Display the channel to be placed on the Favorites list.

2 FAVORITE

Hold down FAVORITE for several seconds.
• Press FAVORITE repeatedly to change between pages (1/3, 2/3, 3/3, or exit). Pressing ◄ ► also changes the page.

Setting 1/3
[1]
[2]
[3]
[4]
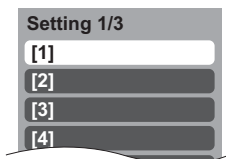
3 ①select ②ok
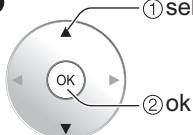
Press ▲ ▼ to highlight a position on the list.
Then, press OK to memorize the displayed CH in that position.
• You can also use the NUMBER keys (1-9 and 0) to select the recorded list numbers (1-9 and 0). By doing so, the numbers will be directly recorded without having to press the OK key.

Setting 1/3
[1] 26-1
[2]
[3]
[4]
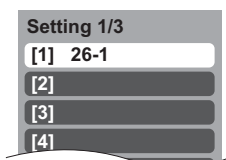
● **To delete a favorite channel**
A memorized channel can be removed from the list by holding down FAVORITE while its position is highlighted.

Use Favorite Feature

1 FAVORITE

Press FAVORITE.
• Press FAVORITE repeatedly to change between pages (1/3, 2/3, 3/3, or exit). Pressing ◄ ► also changes the page.

Favorite 1/3
[1]
[2]
[3]
[4]
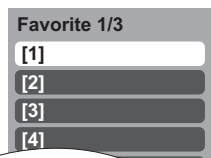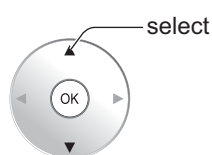
2 select

Press ▲ ▼ or a Numbered key (1-9 and 0) to highlight a channel on the list.
• Selecting a channel number from the list with the Number keys will display the channel directly.

3 ok
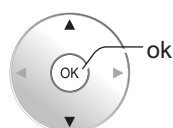
Press OK to display the highlighted channel.

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Using TV Guide

TV Guide provides an on-screen listing of shows currently broadcast and to be broadcast over the next one week. Initial setup (p. 14) is required.
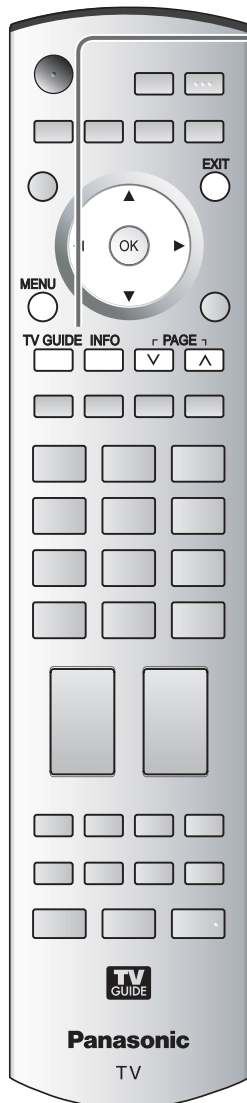
① View TV Guide

TV GUIDE **or** (from the front panel) TV/GUIDE

● Or MENU ➡ Select "TV Guide" using "TVG/Photo"

Current Service Label Indented to identify the current Service screen

Lock/Unlock icon
Indicates status of the Video Windows

Service Bar
Provides access to the main Guide Services

Info Box
Provides information for a highlighted item

Clock

Video Window
Displays TV video while the Guide is displayed (can be locked on a single channel or unlocked to preview channels as you navigate LISTINGS and Channel Editor)

Note:
Video Window is not displayed when an external input is selected.

SCHEDULE LISTINGS SEARCH SETUP

Cable 7 WHDH 9:00 9:30 INFO

Will & Grace "Strangers with Candice" (Sitcom) Candice Bergen guest stars as herself, reveling in a silly one-upmanship battle with her old friend Karen at a fancy restaurant. Eric McCormack, Debra Messing, Megan Mullally. TV14

Info Icon

HD icon

TODAY	8:30PM	9:00PM	9:30PM
PBS 2	Medici:...	Frontline/World	
CBS 4	Without a Trace	CSI: Crime Scene Investigation	HD
abc 5	Remarkable...	Stephen King's 'Kingdom Hospital'	HD
7	Come to Papa	Will & Grace	Scrubs
WB 12	Pepsi Smash	Jamie Kennedy...	Jamie Kennedy...
FOX 13	North Shore	Tru Calling	
14	WWE SmackDown!		
24	Zenon: Z3		
25	Sabrina, the...	Full House	Full House

Welcome to TV GUIDE ON SCREEN select for more information

Using TV GUIDE ON SCREEN select for more information

Channel Logo
Identifies network

Title Tile
Displays show title

Record & Remind Icons
Indicates you set a recording or reminder event for the show

Ad (Menu)
Location where show- or product-specific information appears (Location where on-screen menus appear)

Channel Number
Identifies channel number

Highlight
Indicates an active tile

② Select the menu item from the service bar

①select
②set
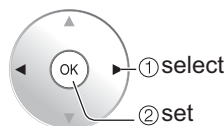
SCHEDULE LISTINGS SEARCH SETUP
(SCHEDULE / LISTINGS / SEARCH / SETUP)

■ To display program information or HELP

INFO

■ To scroll pages on TV Guide

PAGE ∨ ∧

■ To exit TV Guide

EXIT **or** TV GUIDE

● SCHEDULE

Checks or changes the schedule of recording and reminder reservation and displays what shows have been recorded. (p. 24)

● LISTINGS

Lists shows of the channel lineup. (p. 21)

● SEARCH

Searches for the show by a type and category. (p. 23)

● SETUP
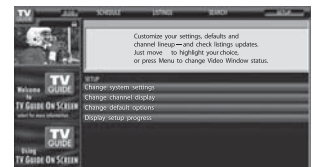
Make changes to existing Guide settings. (p. 22)

Panasonic TV

① Select "LISTINGS" in ② (p. 20)

② Select the show now on the air

Watch the show
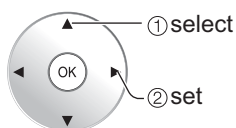
- ① select
- ② set

(TV screen)

---

① Select "LISTINGS" in ② (p. 20)

Listings is always the first Service displayed in the Guide.
Use to move the highlight within Listings to
- View show listings for today plus 7 days (8 days total)
- Read show descriptions
- Tune directly to a show currently airing
- Set a show to Remind
- Set a show to Record
- To lock/unlock the Video Window:
  Highlight a channel logo on the LISTINGS Service Bar Label and press ⬤ MENU to display the option to lock/unlock the Video Window.
- Access Panel and Channel Ads

Selected show title

Further information appears when you select ❶ using INFO key

Details
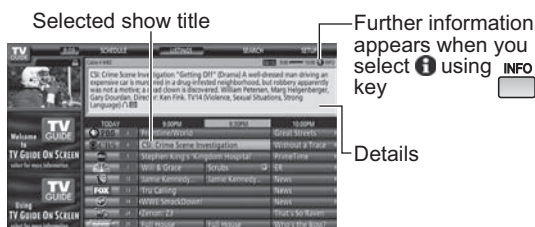
② Select LISTINGS and press MENU:

View details of the show

LISTINGS

Video:	Locked (default) – video remains on a single channel. Unlocked – video changes channels as you navigate the grid.

channel ID:	Both – both channel logo and number are displayed in the grid. Logo – only channel logo is displayed in the grid. Number – only channel number is displayed in the grid.

edit channels: Change the broadcast service that the Guide uses for any channel. Edit the channels that appear in the Guide, reorder their position in the grid, change their tune channel, and, if you have more than one broadcast service, specify the service and input for each channel. You can modify settings directly in the Channel Editor screen.

Use the number keys on your remote control to enter the number of the channel you want to view or enter the number of hours or days you want to jump ahead or back. The Shortcuts menu appears.

- If you entered a channel number press OK when the menu appears to jump directly to the channel.
- If you entered a specific number of hours press ► (jump ahead) or ◄ (jump back) when the menu appears to jump directly.

Using TV Guide (Continued)

Reserve a show

Recording

Reminder

① **Select "LISTINGS" in ❷** (p. 20)

② **Select the show and display the panel menu**

select MENU

③ **Select "set recording" or "set reminder"**
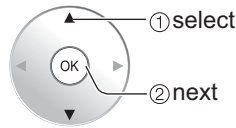
① select
② next

④ **Select the item and set**

① select
② set
enter

■ **To check/change/delete reserved contents**
➡ "SCHEDULE" (p. 24)

■ **To reserve with input date and time**
➡ "Manual Recording"
"Manual Reminder" (p. 25)

Change settings

SETUP

① **Select "SETUP" in ❷** (p. 20)
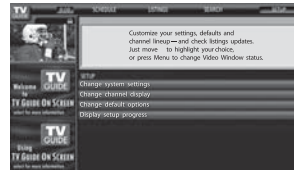
② **Select an item and follow the on-screen instructions for further settings**

● Change system settings:　Changes your system settings, selects an alternate channel lineup
● Change channel display:　Modifies your channel settings
● Change default options:　Changes your Guide default settings
● Display setup progress:　Views the Setup Progress screen

Note

● When reserving shows, you must make the proper settings on the external recording equipment connected to the unit.
● Also read the manual of the recording equipment.

① **Select "SEARCH" in ❷** (p. 20)

② **Select the search type and category**

③ set
① select a search type
② select a category
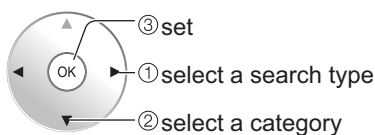
Category
example: All, Action, Musical...

Search type
example: MOVIES, SPORTS

The show list appears.
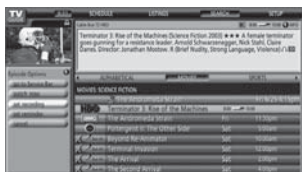
Show list

● To display the desired show
  ➡ Select the show on air and press "OK" button

● To reserve shows for recording
  ➡ Select the upcoming show and press "MENU" button
  ➡ Select "set recording" on the panel menu

Search for shows

SEARCH

■ **Searching for a Specific Keyword, Actor, or Director**

① Select "KEYWORD" in ② above for category and press "OK" button

② Select "new search" and press "OK" button

③ Make the selections for your search and press "OK" button

  - type (title, actor, director, description, all)

  - category (movies, sports, series, children, HDTV, all, etc.)

  - sub(category) (action, comedy, horror, all, etc.)

④ Select "enter keyword" and press "OK" button

⑤ Input the keyword

① select character
② input character
Repeat
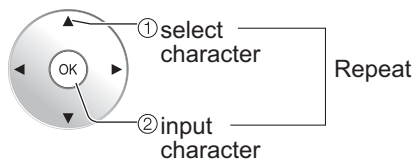
⑥ Select "DONE" and press "OK" button ➡ The show list appears.

23

Using TV Guide (Continued)

Check reservation

SCHEDULE

①**Select "SCHEDULE" in ❷** (p. 20)

②**Select "TO DO"**

Icon

List

②ok
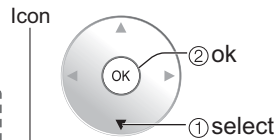
①select

Recording	Reminder	Description
		Once
		Regularly
		Weekly
		Daily
		Off

From TO DO, press MENU. The Schedule Options menu appears. You can set sort by, new manual recording, new manual reminder.
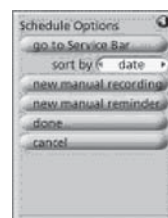
■ **To edit/delete reservations**

➡ Select the reservation ➡ **MENU** ◯ ➡ Select on the panel menu

● delete manual recording: Deletes the recording reservation
● edit manual recording: Changes settings of the recording reservation
● delete manual reminder: Deletes the viewing reservation
● edit manual reminder: Changes settings of the viewing reservation

③**Select "HISTORY"**

record results

②ok
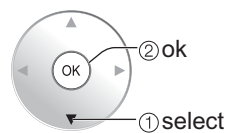
①select

Current/previous record results are listed here.
Press Menu now to choose your view.
Move down to highlight a result and press Menu to customize.

Reserve with date and time

Manual Recording

Manual Reminder

① Select "TO DO" under "SCHEDULE" (see above) and press ⭕ MENU
② Select "new manual recording" or "new manual reminder" and press "OK" button
③ Set the date and time, the channel, and other settings and press "OK" button

Panel menu   (example: Manual Recording)

▲
◄ (OK) ► ① select
▼   ② set
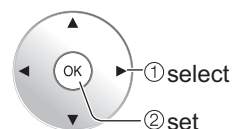
⎯ **Caution** ⎯

A conflict message appears when a show you schedule to
● Record overlaps with any part of another show previously set to record
● Record overlaps with a reminder previously set to auto tune
● Remind and auto tune overlaps another auto-tune reminder
● Remind and auto tune overlaps with a scheduled recording

RECORDING CONFLICT!
Recording "Will & Grace" will override the recording for "Come to Papa".

record anyway
don't record this show

REMINDER CONFLICT!
Auto-tuning "Law & Order" will override the recording for "Friends".

auto-tune anyway
remind, no auto-tune
don't set this reminder
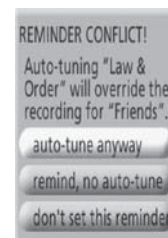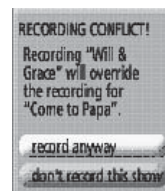
To resolve the conflict, you must select one of these options (which vary according to the type of conflict):

● **Record anyway** — records the specified show and suspends the existing show recording or auto-tune reminder
● **Don't record this show** — cancels the specified show recording
● **Auto-tune anyway** — auto tunes the specified show and suspends the existing show reminder set to auto tune
● **Remind, no auto-tune** — schedules the specified show reminder but cancels the auto-tune option
● **Don't set this reminder** — cancels the specified reminder

Viewing

● Using TV Guide

25

Viewing from SD Card

You can view photos taken with a digital camera or a digital video camera saved on SD card.
(Media other than SD Cards may not be reproduced properly.)
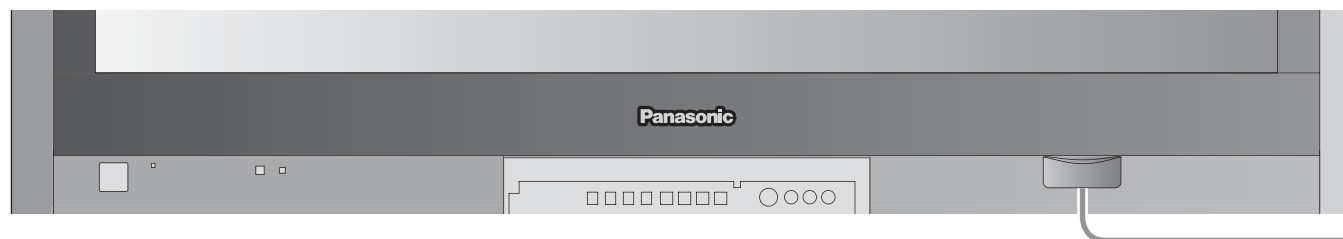
1 **Insert the SD Card**
● For cautions and details on SD Cards (p. 28 and 53)

2 **Select the SD mode**

or

MENU

➤ **Select "Memory card" using "TVG/Photo"**

3 **Select the data to be viewed**

┌ While reading the data   ┌ Thumbnail view

JPEG thumbnail
■ **Accessing**
Total 8
Info

No.	102-0006
Date	01/01/2000
Pixel	2048x1536

Select OK
Select ◄ ◊ ▷
MENU ○ ▽ ○ RETURN

102-0001   102-0002   102-0003
102-0004   102-0005   102-0006
102-0007   102-0008
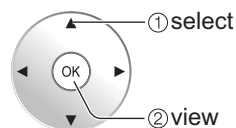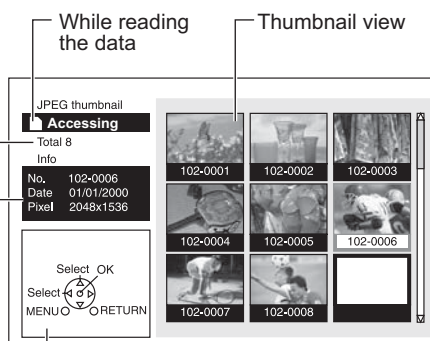
① select
② view

Navigation Area

Selected picture information is displayed.
No. : Image number or file name is displayed.
Date : Date of recording is displayed.
Pixel : Display resolution is displayed.

Note
● Depending on the JPEG type, Info contents may not be displayed correctly.

Total number of images

■ **Press to return to TV**

SD

■ **Press to exit**

EXIT

■ **Press to return to the previous screen**

RETURN

4 **View**

Navigation Area

Select OK
Rotate ◄ ◊ ▷
MENU ○ ▽ ○ RETURN

Displayed in slide show

To previous photo
Rotate 90 degree (clockwise)
To next photo
Rotate 90 degree (counter-clockwise)
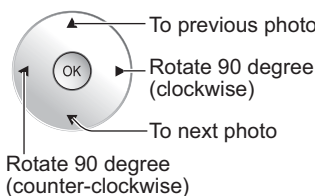
● To display/hide Navigation Area ➤ **RECALL**

Note
● The SD mode can also be selected from the MENU screen.

SD Card

● Insert the card

Label surface

Panasonic SD

Push until a click is heard
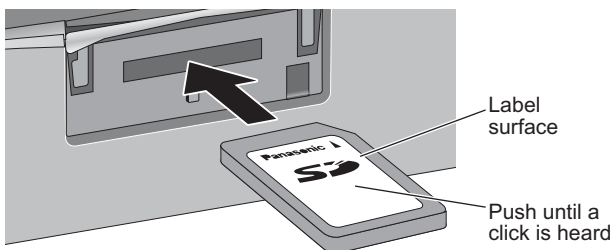
● Remove the card
➡ Press in lightly on SD Card, then release.
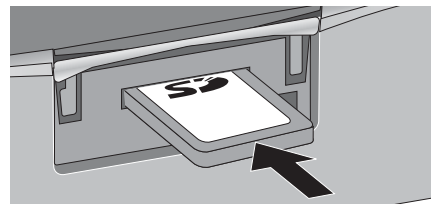
● Compliant card type (maximum capacity): SD Card (2 GB), Mini SD Card (1 GB) (requiring mini SD Card adapter)

To change the view (single play mode, adjusting images, etc.)

■ To watch photos in single play mode

In ④   Adjust

ok

Single setting
Mode   Slide
Disp time   3
Repeat   On

① select

② set

① select

② ok
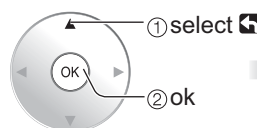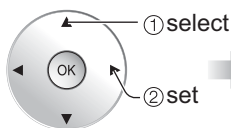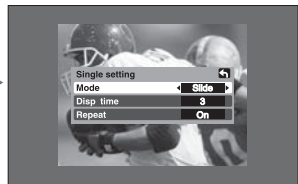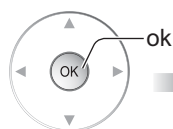
Start single play mode

Mode	Set to Single/Slide to view single images or perform a slide show.
Disp time	You can set how many seconds each image is displayed in Slide mode.
Repeat	Turn the slide show Repeat function On or Off.

Note

● For large image sizes, the display time will be longer than the number of seconds set.
● To stop in mid-cycle ➡ Press "OK" button

■ To adjust picture

When MENU is pressed, the Picture Adjust menu is displayed.

In ④

MENU

Picture	1/2
Normal	No
Pic. mode	Standard
Picture	+30
Brightness	0
Color	0
Tint	0
Sharpness	+10

Select
MENU ● RETURN
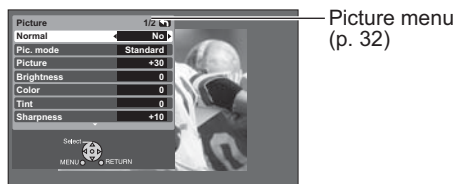
Picture menu (p. 32)

● To display/hide Navigation Area
➡ RECALL

Viewing

● Viewing from SD Card

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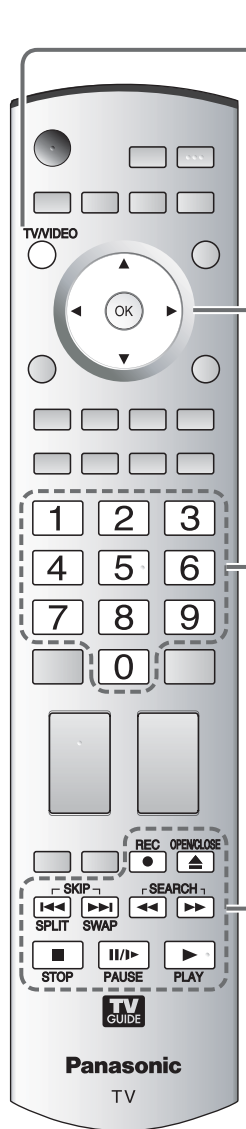
SD Card: Notes and Cautions

Card Warning Messages

Message	Meaning
Is memory card in?	● The card is not inserted or this unit does not support the format.
No file	● The card has no data or this type of data is not supported.

Cautions in handling card :

● Do not remove the card while the unit is accessing data (this can damage card or unit).
● Do not touch the terminals on the back of the card.
● Do not subject the card to a high pressure or impact.
● Insert the card in the correct direction (otherwise, card may be damaged).
● Electrical interference, static electricity, or erroneous operation may damage the data or card.
● Back up the recorded data at regular intervals in case of deteriorated or damaged data or erratic operation of the unit. (Panasonic is not liable for any deterioration or damage of recorded data.)

Watching Videos and DVDs

Some Panasonic equipment connected to the TV unit can be operated with the remote control.
Programming the remote control is necessary to operate other manufacturers' products. (p. 45)
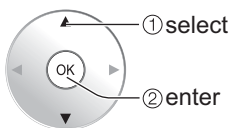
1 With VCR or DVD turned On
Switch to external input
Press to display the Input select menu.

TV/VIDEO

2 **Select the input mode**

Input select
[1] TV
[2] Component 1
[3] Component 2
[4] HDMI 1
[5] HDMI 2
[6] Video 1
[6] Video 2
[6] Video 3
[9] PC

(Initial screen)

Press corresponding NUMBER key on the Remote Control to select the input of your choice.

or

① select
② enter

Press arrow up/down to select the input of your Choice, then press "OK".
● If during selection, no action is taken for several seconds, the Input selection menu is exited.

● The terminal and label of the connected device is indicated.
To change the input label (p. 42)

Label   Terminal
Video 1
VCR

[example]

3 **Operate**
the VCR or DVD with the remote control

(example)

	VCR	DVD
REC ●	VCR Record	Record
OPEN/CLOSE ▲	—	Open/Close
SKIP ⏮ ⏭	—	Skip Reverse/Forward
SEARCH ◀◀ ▶▶	Rewind/Fast Forward	Reverse/Forward
■ STOP	Stop	Stop
II/I▶ PAUSE	Pause	Pause
▶ PLAY	Play	Play

(For other operations, see p. 48.)

■ **Press to return to TV**

TV/VIDEO

Note
● For details, see the manual of the equipment or ask your local dealer.

Displaying PC Screen on TV
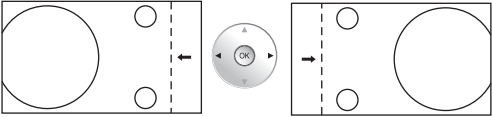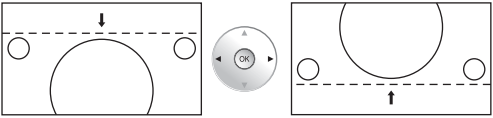
The screen of the PC connected to the unit can be displayed on the TV.
You can also listen to PC sound with the audio cable connected. To connect PC (p. 46)

① **Select the external input**

TV/VIDEO

② **Select "PC"**

9

PC

● Corresponding signals
(p. 29)

Displays
PC screen

■ **To return to TV** ➡ TV/VIDEO ➡ 1
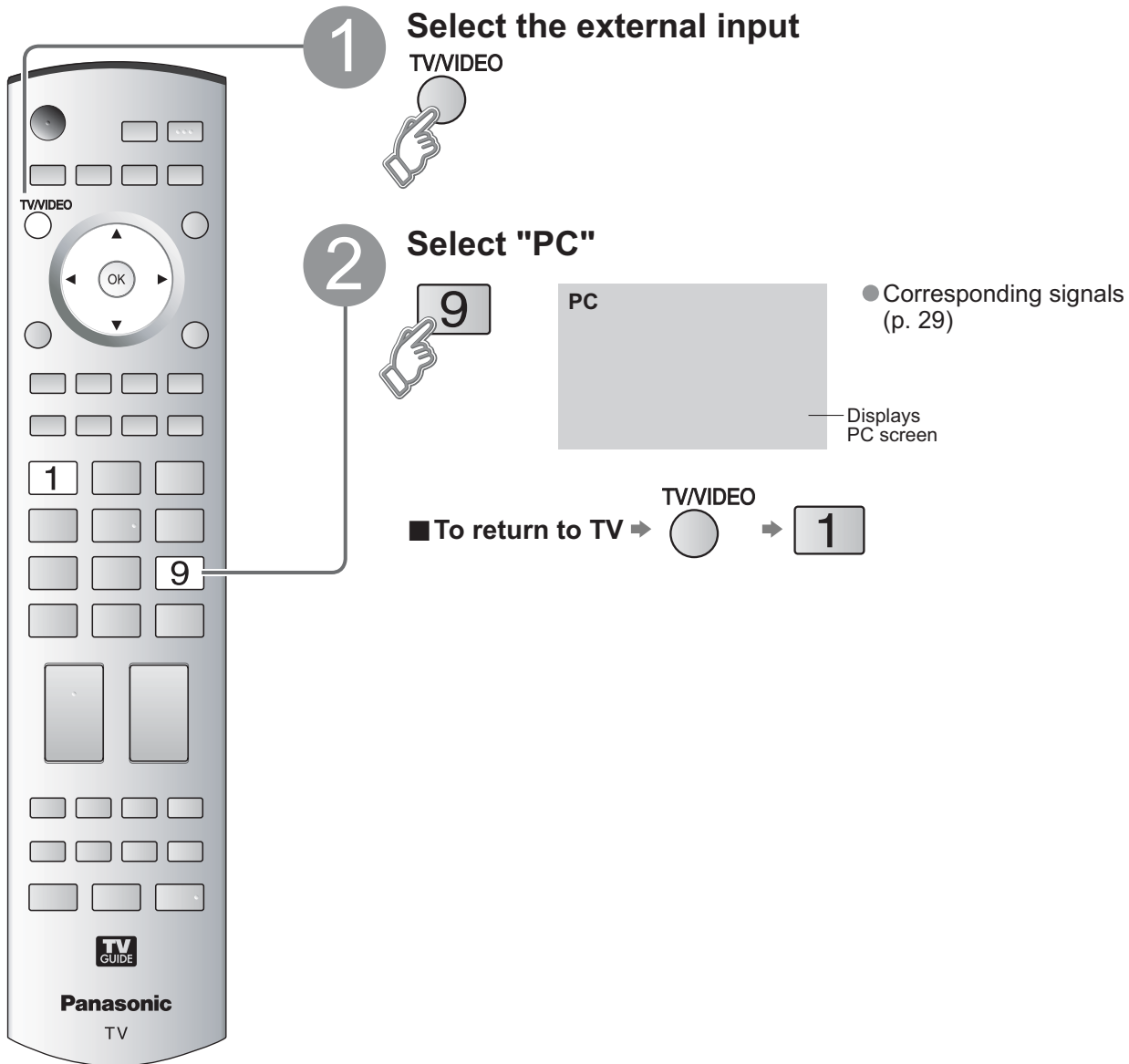
■**PC menu setting** (changed as desired)
●Making settings ➡ "How to Use Menu Functions" ❶ to ❹ (p. 32)

Menu	Item		Adjustments/Configurations(options)
Picture	**PC adjust**	Normal	Resets PC adjust
		Sync	●H&V : The H and V sync signals are input from the HD/VD connector. ●On G : Uses a synchronized signal on the Video G signal, which is input from the G connector.
		Dot clock	Alleviates the problem if a picture appears to be vertically-striped, flickers partially or is blurred.
		H-position	Adjust the horizontal position.
		V-position	Adjust the vertical position.
		Clock phase	Alleviates the problem if the whole picture appears to flicker or is blurred. First adjust the Dot Clock to get the best possible picture, then adjust the Clock Phase so that a clear picture appears. (Note) It may not be possible to display a clear picture due to poor input signals.
		Input resolution	Switches to wide display. ●Input signal switched from VGA to WVGA ●Input signal switched from XGA to WXGA

		H-frequency V-frequency	Displays the H (Horizontal)/V (Vertical) frequencies.
			●Display range
			  Horizontal: 15-110kHz
			  Vertical: 48-120Hz

●Audio menu (p. 32)
●For PC input, only audio signals can be output from PROG. OUT terminals.

Viewing

●Displaying PC Screen on TV

How to Use Menu Functions

Various menus allow you to make settings for the picture, sound, and other functions so that you can enjoy watching TV in your own way.

1 **Display menu**

MENU ● Displays the functions that can be set (varies according to the input signal)

2 **Select the menu**

Menu
- ▢ **Picture**
- ♪ **Audio**
- ⏻ **Timer**
- 🔒 **Lock**
- 📷 **TVG/Photo**
- 🔧 **Setup**

① select
② next

3 **Select the item**

Picture	1/2 ↩
Normal	No
Pic. mode	Standard
Picture	+30
Brightness	0
Color	0
Tint	0
Sharpness	+10

(example: Picture menu)

select

4 **Adjust or select**

Picture	1/2 ↩
Normal	No
Pic. mode	Standard
Picture	+30
Brightness	0
Color	0
Tint	0
Sharpness	+10

(example: Picture menu)

adjust or select

■**Press to return to TV**
EXIT

■**Press to return to the previous screen**
RETURN

Panasonic
TV

■ Menu list

Menu	Item	
Picture	Normal	
	Pic. mode	
	Picture, Brightness, Color, Tint, Sharpness	
	Color temp	
	Color mng.	
	C.A.T.S.	
	Zoom adjust	
	PC adjust	
	Other adjust — Video NR	
	3D Y/C filter	
	Color matrix	
	MPEG NR	
	Black level	
Audio	Normal	
	Bass	
	Treble	
	Balance	
	Other adjust — AI sound	
	BBE VIVA 3D	
	BBE	
	Surround	
	Speakers	
	HDMI1 in HDMI2 in	
	Audio leveler	
Timer	Sleep, Timer1-5	
Lock		
TVG/Photo	Memory card	
	TV Guide	
Setup	CH scan	
	Language	
	Clock	
	Program channel	
	Input labels	
	CC	
	SD card LED	
	Other adjust — Auto power on	
	Side bar	
	Prog-out stop	
	Ctrl with HDMI	
	Power off link	
	Power on link	
	About	
	Reset	

● In AV mode, the Audio menu and Setup menu give a smaller number of options.

Adjustments/Configurations (alternatives)		
Resets all picture adjustments to factory default settings except for "Other adjust"	**Normal**	No
Basic picture mode **(Vivid/Standard/Cinema)** (p. 55)	**Pic. mode**	Standard
Adjusts color, brightness, etc. for each picture mode to suit your taste Picture +30 / Brightness 0 / Color 0	**Tint** 0 / **Sharpness** +10	
Selects level of warm colors (red) and cool colors (blue) **(Warm/Cool/Normal)**	**Color temp**	Cool
On : enhances green and blue color reproduction, especially outdoor scenes. **(On/Off)**	**Color mng.**	Off
Adjusts the brightness and gradation accordingly, to optimize contrast. **(On/Off)**	**C.A.T.S.**	Off
Adjusts vertical alignment and size when aspect setting is "ZOOM" (p. 52)	**Zoom adjust**	
Sets PC display (p. 30)	**PC adjust**	
Reduces noise, commonly called snow. Leave off when receiving a strong signal. **(On/Off)**	**Video NR**	Off
Minimizes noise and cross-color in the picture. **(On/Off)**	**3D Y/C filter**	Off
Selects image resolution of component-connected devices **(SD/HD)** ● SD: normal vision HD: high-definition vision ● Only 480p signal accepted; regular TV (NTSC) is not available.	**Color matrix**	SD
Reduces noise of specific digital signals of DVD, STB, etc. **(On/Off)**	**MPEG NR**	Off
Select Dark or Light. Valid only for external input signals. **(Dark/Light)**	**Black level**	Dark
Reset Bass, Treble and Balance adjustments to factory default settings.	**Normal**	Set
Increase or decrease the bass response.	**Bass**	+ 7
Increase or decrease the treble response.	**Treble**	+ 7
Emphasize the left / right speaker volume.	**Balance**	0
Equalize overall volume levels across all channels and external inputs. **(On/Off)**	**AI sound**	On
BBE ViVA HD3D (High Definition 3D) Sound provides musically accurate natural 3D image with Hi-Fi sound. The clarity of the sound is improved by BBE while the width, depth and height of sound image are expanded by BBE's proprietary 3D sound process. BBE ViVA HD3D Sound is compatible with all TV programs including news, music, dramas, movies, sports and electronic games. **(On/Off)**	**BBE VIVA 3D**	On
BBE High Definition Sound restores clarity and presence for better speech intelligibility and musical realism. **(On/Off)**	**BBE**	On
Enhances audio response when listening to stereo. **(On/Off)**	**Surround**	Off
Switch to "Off" when using external speakers **(On/Off)** ● "AI sound", "Surround" and "Audio leveler" do not work if "Off" is selected	**Speakers**	On
Selects according to the signal when HDMI is connected **(Auto/Digital/Analog)** ● Auto: Automatically selects Analog / Digital signal	**HDMI1 in** Auto / **HDMI2 in** Auto	
Minimizes volume disparity after switching to external inputs	**Audio leveler**	0
The TV can automatically turn On/Off at the designated date and time (p. 44)	**Sleep**	◄ 60 ►
Locks the channels and programs (p. 38)		
Displays SD card data (p. 26)	**Memory card**	
Enter the TV Guide	**TV Guide**	
Selects the channel with "Program up/down" button **(Fav./All)** ● Fav.: Only channels registered as FAVORITE (p. 19)	**CH scan**	◄ All ►
Selects the screen menu language (p. 13)	**Language**	
Adjusts the clock (p. 13)	**Clock**	
Sets channels (p. 40)	**Program channel**	
Select the terminal and the label of the external equipment (p. 42)	**Input labels**	
Displays subtitles (Closed Caption) (p. 42)	**CC**	
Set to "On", if you light SD card LED while SD card is inserted. **(On/Off)**	**SD card LED**	◄ On ►
Turns TV On automatically when the cable box or a connected device is turned On **(Set/Off)** ● The Sleep Timer and On / Off timer will not function if "Auto power on" is set.	**Auto power on**	Off
Increases the brightness of the side bar **(Off/Dark/Mid/Bright)** (4:3 mode only) The recommended setting is Bright to prevent panel "after image". (P. 55)	**Side bar**	Bright
To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 47) **(Off/Comp.1/Comp.2/HDMI 1/HDMI 2/Video 1/Video 2/Video 3)** ● When recording with a VCR using TV Guide, set "Prog-out stop" setting to the terminal connected the VCR.	**Prog-out stop**	Off
Controls equipment connected to HDMI terminals (p. 34) **(On/Off)** ● "Power off link" and "Power on link" do not work if "Off" is selected.	**Ctrl with HDMI**	On
Sets "Power off link" of HDMI connection equipment (p. 34) **(Set/No)**	**Power off link**	Set
Sets "Power on link" of HDMI connection equipment (p. 34) **(Set/No)**	**Power on link**	Set
Displays TV version, software license and CableCARD™ information	**About**	
Performing Reset will clear all items set with Setup, such as channel settings. (p. 40)	**Reset**	

● How to Use Menu Functions (picture, sound quality, etc.)

Advanced

Control with HDMI "HDAVI Control™"*

* Simultaneously control all Panasonic "HDAVI Control" equipped components using one-button on one remote.

Newer Panasonic audio-video products with HDMI output connections can be controlled using the TV's remote. Limited features such as home theater system volume and automatic switching to the TV's HDMI input are available.

● This feature is limited to models incorporating Panasonic's "Control with HDMI". Refer to the individual instruction manuals for compatibility information.
● Non-HDMI-compliant cables cannot be utilized.
● It is recommended that you use Panasonic's HDMI cable.
  Recommended part number: RP-CDHG15 (1.5 m), RP-CDHG30 (3.0 m), RP-CDHG50 (5.0 m)

1 **Display menu**

MENU

2 **Select "Setup"**

Menu
🔊 Home theater
▭ Picture
♪ Audio
⏻ Timer
🔒 Lock
📖 TVG/Photo
🔧 Setup

① select
② next

3 **Select "Other adjust"**

Setup	↰
Other adjust	
About	
Reset	

① select
② next

4 **Select "Ctrl with HDMI"**

Other adjust	↰
Auto power on	Off
Side bar	Off
Prog-out stop	Off
Ctrl with HDMI	On
Power off link	Set
Power on link	Set

select

5 **Select "On"**

change

● Default setting is "On". If no HDMI equipment is connected or standard HDMI equipment (non- "Control with HDMI") is used, set to "Off".

■ **Press to return to TV**
EXIT

■ **Press to return to the previous screen**
RETURN

Panasonic
TV

Automatic input switching

Theater speaker

Power on link

Power off link

One-touch theater playback

34

At the start of DIGA, Player theater or RAM theater playback, the TV's input automatically switches to the input corresponding to the playback equipment.
- For RAM theater, the speakers automatically switch to theater.
  If using DIGA operation, the TV's input automatically switches to DIGA and the DIGA menu is displayed.

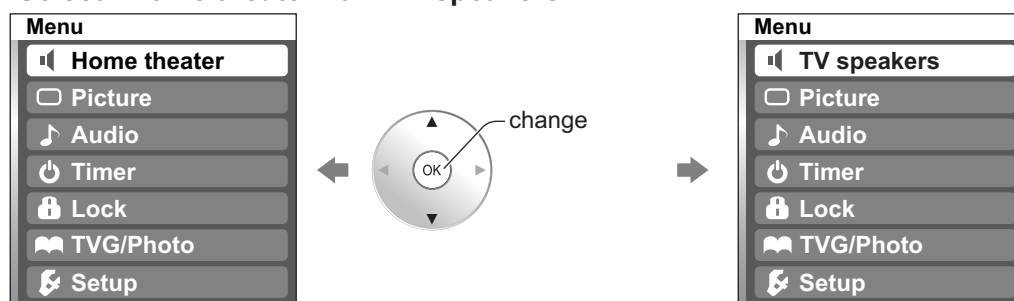You can control the theater speaker with TV's remote control.
"Home theater" with speaker icon appears when a Panasonic "Control with HDMI" home theater system is connected via the HDMI input (1 or 2).
Pressing the OK button toggles between TV and home theater volume control.
- "Ctrl with HDMI" must be set to "On".
- Limited to newer Panasonic Home Theater, RAM theater and DIGA/DVD models with "Control with HDMI".

① **Display menu** ➡ MENU ◯

② **Select "Home theater" or "TV speakers"**

Menu
◀ **Home theater**
▭ Picture
♪ Audio
⏻ Timer
🔒 Lock
📖 TVG/Photo
🔧 Setup

change

Menu
◀ **TV speakers**
▭ Picture
♪ Audio
⏻ Timer
🔒 Lock
📖 TVG/Photo
🔧 Setup

■ **Home theater:**
Adjustment for Panasonic Amplifier, Panasonic Player theater, Panasonic RAM theater

Volume up / down ➡ + VOL −   Mute ➡ MUTE
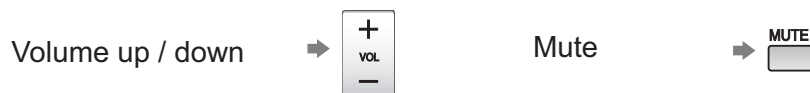
■ **TV speakers:**
The TV speakers are active.

- When selecting "Home theater", the sound of TV speakers is muted.
- When "Home theater" is selected, the home theater volume control can be raised or lowered using the TV remote volume button. The TV will display "Home Theater + / -" on screen.
- If home theater/RAM theater/Player theater is currently off, selecting the "Home theater" option will automatically turn the equipment on. See "Power on link" below.
- If home theater/Player theater/RAM theater power is turned Off, speakers automatically switch to the TV.

When "Set" is selected, this allows for the TV to automatically turn on and switch to the appropriate HDMI input whenever a "Control with HDMI" compatible DVD player/recorder is initially turned on and Play mode is selected.

When "Set" is selected, this allows for the TV to turn off and also turn off the connected home theater/ RAM theater/player theater and/or DIGA-DVD player.

If the "ONE TOUCH PLAY" key is pressed on the AV amp or Player theater remote control, the following sequence of operations is performed automatically.
① Home theater/Player theater power switches On, and playback begins.
② TV power switches On, and the playback screen is displayed.
③ Audio is muted on the TV and switches to theater.

Caution
- The TV remains on even if the "Control with HDMI" compatible equipment is turned off.

Note
- Before using HDMI control functions, the connected equipment (DIGA, RAM theater, Player theater, AV amp) must also be set. For details, see the operation manual for each equipment.
- For equipment connection details, see p. 36.

● Control with HDMI "HDAVI Control™"

Advanced

Control with HDMI "HDAVI Control™"

Follow the connection diagrams below for HDMI control of a single AV piece of equipment such as a Panasonic DIGA-DVD recorder, RAM Theater or Player Theater system. Refer to page 34 for Setup Menu settings and additional control information.
● Optional HDMI and/or optical cables are not provided.

If connection (or setting) of equipment compatible with HDMI control is changed, switch the power of this unit Off then On again while the power of all equipment is On (so that the unit can correctly recognize the connected equipment) and check that DIGA, RAM theater and Player theater playback operates.

■Connecting this unit to a DVD recorder, RAM theater or Player theater

Back of the unit
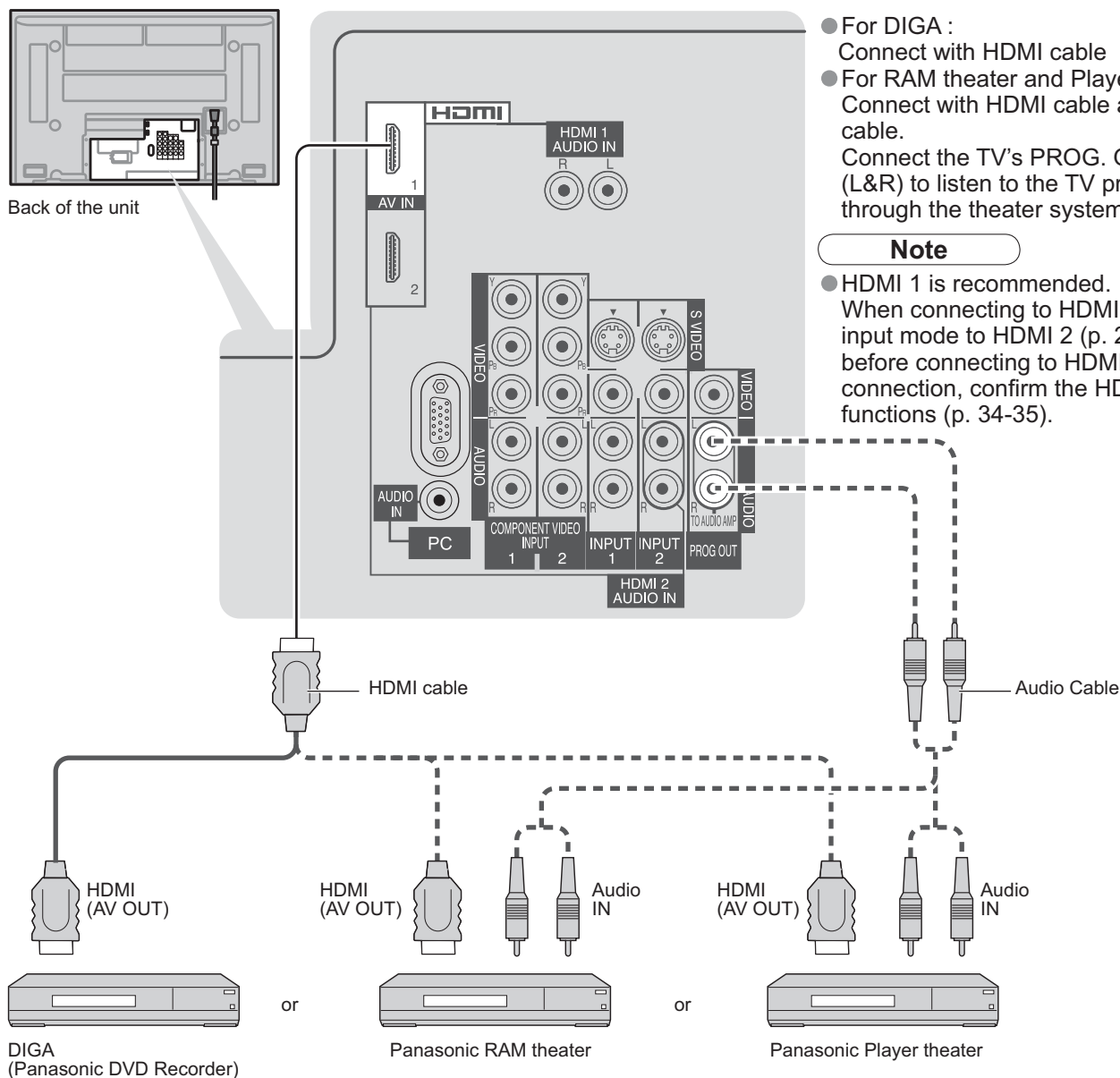
● For DIGA :
  Connect with HDMI cable
● For RAM theater and Player theater :
  Connect with HDMI cable and audio cable.
  Connect the TV's PROG. OUT audio (L&R) to listen to the TV program through the theater system.

Note

● HDMI 1 is recommended.
  When connecting to HDMI 2, set the input mode to HDMI 2 (p. 29) initially before connecting to HDMI 2. After connection, confirm the HDMI control functions (p. 34-35).

HDMI cable

Audio Cable

HDMI (AV OUT)   HDMI (AV OUT)   Audio IN   HDMI (AV OUT)   Audio IN

or   or

DIGA (Panasonic DVD Recorder)   Panasonic RAM theater   Panasonic Player theater

■Setting of this unit after connection

After making connections as shown above, set "Ctrl with HDMI" (under "Other adjust") to "On" using the Setup menu. (p. 34).

Note

● Individual HDMI equipment may require additional menu settings specific to each model. Please refer to their respective operating instruction manuals.

■ Connecting this unit to a DVD recorder and AV amp

When using an "Control with HDMI" audio-video amplifier and a compatible DIGA recorder, use a daisy chain connection as shown below.
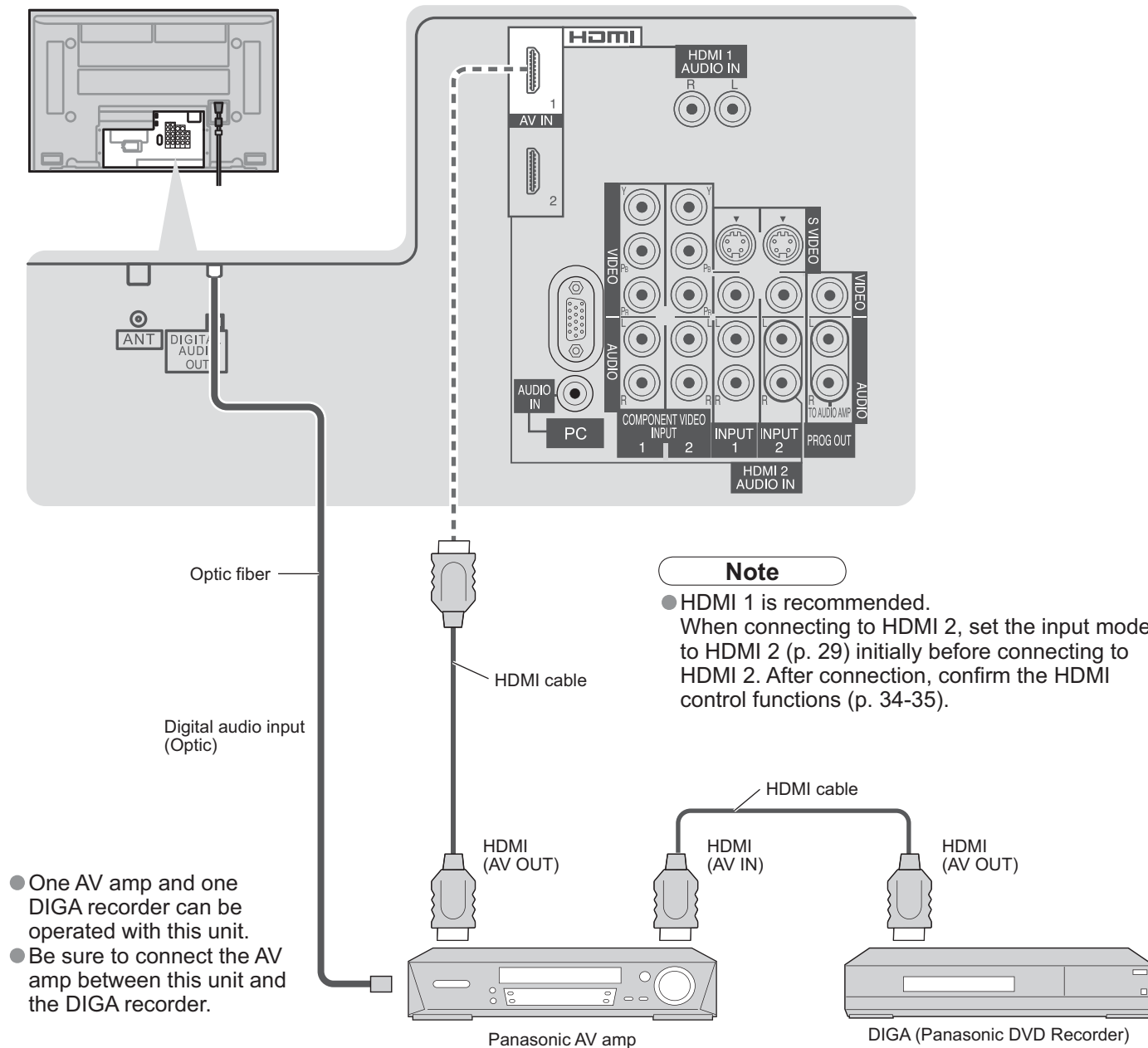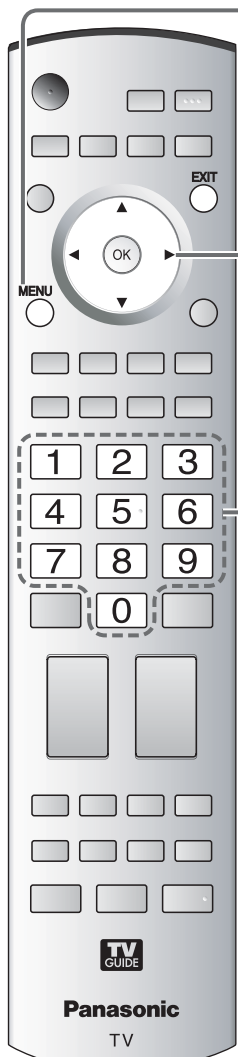
HDMI 1
AUDIO IN
R   L

AV IN

HDMI 2
AUDIO IN

ANT DIGITAL AUDIO OUT

Optic fiber

Note

● HDMI 1 is recommended.
When connecting to HDMI 2, set the input mode to HDMI 2 (p. 29) initially before connecting to HDMI 2. After connection, confirm the HDMI control functions (p. 34-35).

HDMI cable

Digital audio input (Optic)

HDMI cable

HDMI (AV OUT)   HDMI (AV IN)   HDMI (AV OUT)

● One AV amp and one DIGA recorder can be operated with this unit.
● Be sure to connect the AV amp between this unit and the DIGA recorder.

Panasonic AV amp

DIGA (Panasonic DVD Recorder)

<div align="right">● Control with HDMI "HDAVI Control™"</div>

<div align="right">**Advanced**</div>

■ Setting of this unit after connection

After making connections as shown above, set "Ctrl with HDMI" (under "Other adjust") to "On" using the Setup menu. (p. 34).

Note

● Individual HDMI equipment may require additional menu settings specific to each model. Please refer to their respective operating instruction manuals.
● When audio from other equipment connected to this unit via HDMI is output using "DIGITAL AUDIO OUT" of this unit, the system switches to 2CH audio.
(When connecting to an AV amp via HDMI, you can enjoy higher sound quality.)

Channel Lock

You can lock out specified channels or shows to prevent children from watching objectionable content.

1 Display menu

MENU

2 Select "Lock"

You will be asked to enter your password each time you display the Lock menu.

Menu
▭ **Picture**
♪ **Audio**
⏻ **Timer**
🔒 **Lock**
📖 **TVG/Photo**
🔧 **Setup**

②next
①select

3 Input your 4-digit password

A 4-digit code must be entered to view a blocked program or change rating settings.

Enter password.

- - - -

1	2	3
4	5	6
7	8	9
	0	

● If it is the first time to enter the password, enter the number twice in order to register it.

4 Select the Lock mode

Lock ↰
Mode	◀ Off ▶
Channel	
Program	
Change password	

select

● Off: "Channel lock" not activated
● All: Locks all channels and external inputs
● Game: Locks CH3, CH4, and external inputs
● CH: Locks specified channels (analog/digital)

■To change the password
①In ④, select "Change password" and press "OK" button
②Input the new 4-digit password twice

■To cancel the "Channel lock"
Select "Off" in ④

■**Press to exit**
EXIT

Caution

● Make a note of your password in case you forget it. (If you have forgotten your password, consult your local dealer.)

Note

● When you select a locked channel, a message will be displayed that allows you to view the channel if you input your password.

Panasonic
TV

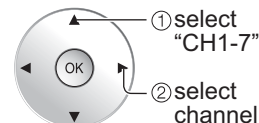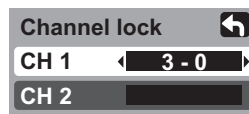## ■ To select the channel or the rating of the program to be locked

Channel Lock

Select up to 7 (1-7) channels to be blocked out. These channels will be blocked out regardless of the program rating.
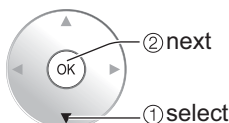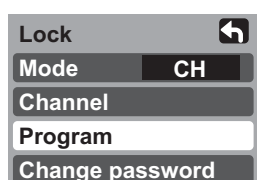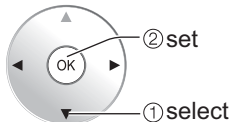Select "CH" in ❹ on p. 38

①Select "Channel"

Lock	↰
Mode	**CH**
Channel	

②next
①select

②Select channel to lock

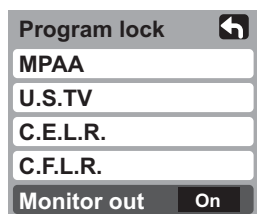| Channel lock	↰
CH 1	◀ **3 - 0** ▶
CH 2	

①select "CH1-7"
②select channel

Block program
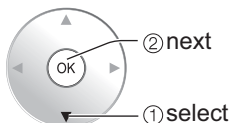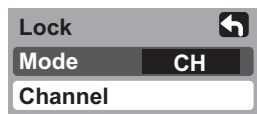
■ To set rating level
"V-chip" technology enables restricted shows to be locked according to TV ratings.

①Select "Program"

Lock	↰
Mode	**CH**
Channel	
Program	
Change password	

②next
①select

②Select the rating category you wish to follow

Program lock	↰
MPAA	
U.S.TV	
C.E.L.R.	
C.F.L.R.	
Monitor out	**On**

②set
①select

● MPAA : U.S movie ratings
● U.S.TV : U.S TV program ratings
● C.E.L.R : Canadian English ratings
● C.F.L.R : Canadian French ratings

③Select the rating to be locked

select
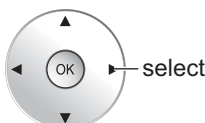
Example of "MPAA" (U.S movie ratings)

Off	No rating
G	General Audience: All ages admitted
PG	Parental Guidance Suggested
PG-13	Parents Strongly Cautioned: Inappropriate for children under 13
R	Restricted: Under 17 requires accompanying parent or adult guardian
NC-17	No one 17 and under admitted
X	Adults only

● To get other information (p. 51)

■ To disable recording of the locked program
➡ Select "Monitor out" in "Program lock" menu (②)

Program lock	↰
MPAA	
U.S.TV	
C.E.L.R.	
C.F.L.R.	
Monitor out	**Off**
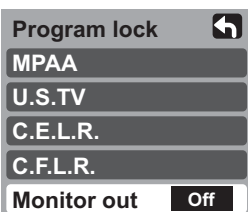
On : Turns on the monitor terminal output for programs that have been set to "Blocked."
Off : Turns off the monitor terminal output for programs that have been set to "Blocked."

●

Caution

● The V-Chip system that is used in this set is capable of blocking "NR" programs (non rated, not applicable and none) as per FCC Rules Section15.120(e)(2). If the option of blocking "NR" programs is chosen "unexpected and possibly confusing results may occur, and you may not receive emergency bulletins or any of the following types of programming:"
  • Emergency Bulletins (Such as EAS messages, weather warnings and others)
  • Locally originated programming • News • Political • Public Service Announcements • Religious • Sports
  • Weather

Note

● The Off rating is independent of other ratings.
● When placing a block on a specific age based rating level, the Off rating and any other more restrictive ratings will also be blocked.

39

Editing and Setting Channels

The current channel settings can be changed according to your needs and reception conditions.

1 **Display menu**

MENU

2 **Select "Setup"**

Menu	
☐ Picture	
♪ Audio	
⏻ Timer	
🔒 Lock	
📖 TVG/Photo	
🔧 **Setup**	

②next
①select

3 **Select "Program channel"**

Setup	🔙
CH scan	**All**
Language	
Clock	
Program channel	
Input labels	
CC	

②next
①select

4 **Select the function**

Program channel 🔙
Auto
Manual
Signal meter

②next
①select

Auto

Set automatically

Manual

Set manually

Signal meter

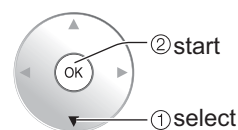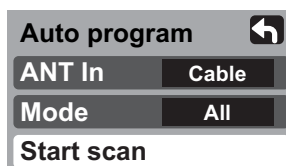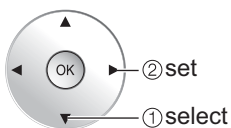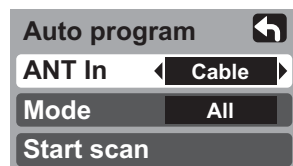**Check signal strength**

■**Press to exit**
EXIT

5 **Set**

■**To reset the settings of Setup menu**
　① Select "Reset" in Setup menu (❸) and press "OK" button
　② Input your 4-digit password with number buttons
　③ Select "Yes" on the confirmation screen and press "OK" button

Panasonic
TV

Automatically searches and adds active channels to memory.

① **Select "ANT In"** → (Select Cable or Antenna)

② **Select "Mode"** → Select All or Analog
All: Analog and digital
Analog: Analog only

Auto program	⤺
ANT In ◄	**Cable** ►
Mode	**All**
Start scan	

②set

①select

③ **Select "Start scan"**

Auto program	⤺
ANT In	**Cable**
Mode	**All**
Start scan	

②start

①select

Settings are made automatically

●After completing the setting, select "Apply". (see below ④).
●All previous memorized channels are erased.

Use this procedure when changing setting of received channels or changing the channel display.
Also, use to add or delete channels from channel list manually.

① **Select "Edit"**

Edit	Apply	⤺
Favorite	Add	
- - -	No	

①select

②next
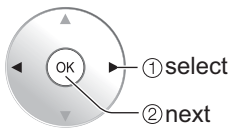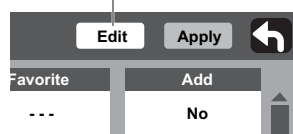
② **Select the item to be edited**

CH	Caption	Favorite	Add
1	...	...	No
2		2	Yes
3	...	...	No
4	...	...	No
5	...	...	No

①select item to edit (Caption/Favorite/Add)

②next

Caption   Favorite   Add
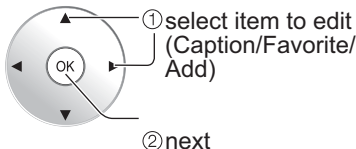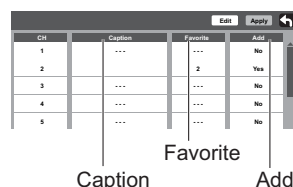
●Caption:
Changes the station identifier
●Favorite:
Registers channel to Favorites List
●Add:
Adds or deletes channels

③ **Edit**

●**Caption**

Caption select	Apply	⤺
Preset	◄ --- ►	
Caption detail		

①select

②set/next
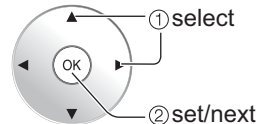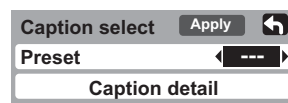
Preset

Select the station identifier

Caption detail

Rename (maximum 7 characters available)

●**Favorite**

Favorite	Apply	⤺
Favorite ◄	**12** ►	

①select

②next
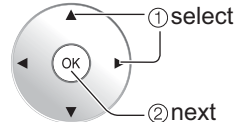
Favorite

Select the number

●**Add**
●Press "OK" button to select "Yes (add)" or "No (delete)"

④ **Select "Apply"**

RETURN

Press to move cursor to "Apply"

ok
(to enter your program)
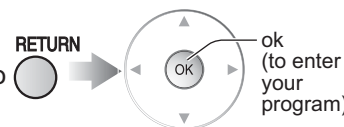
Check the signal strength if interference is found or freezing occurs on a digital image.

Signal meter	⤺
CH ◄	**2 - 1** ►
Signal strength	
Current	85 %
Peak level	85 %

①select channel

②ok
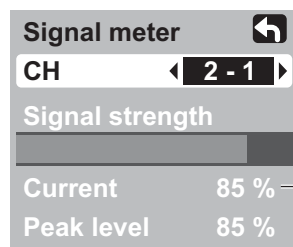
Signal intensity

●If the signal is weak, check the antenna. If no problem is found, consult your local dealer.

Note

●Not available if "Cable" is selected in "ANT In" (see above).
●Effective only for digital antenna channels.

●If "Channel lock" (p. 38) is activated and "Auto", "Manual" or "Signal meter" is selected, "Enter password." will be displayed.

Input Labels/Closed Caption
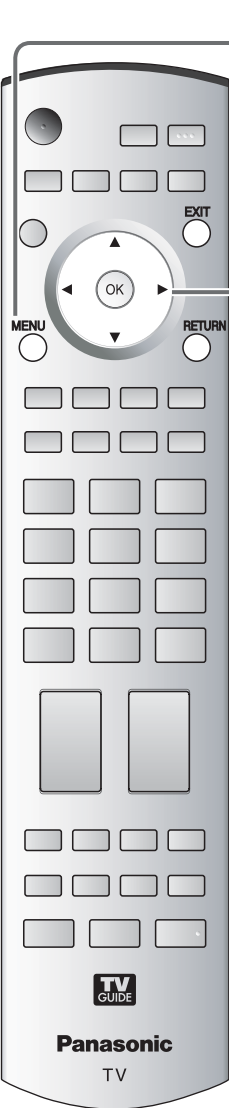
1 **Display menu**
MENU

2 **Select "Setup"**

Menu
⬭ Picture
♪ Audio
⏻ Timer
🔒 Lock
📖 TVG/Photo
🔧 Setup

② next
① select

3 **Select "Input labels" or "CC"**

Setup	↩
CH scan	Fav.
Language	
Clock	
Program channel	
Input labels	
CC	
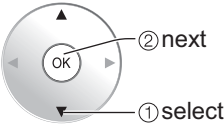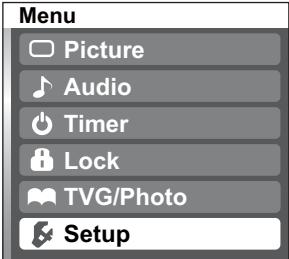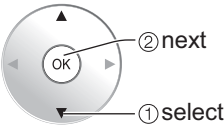
② next
① select

Input labels

Display labels of external devices

CC

Display Closed Caption

■ Press to exit
EXIT

4 **Set**

Devices connected to external input terminals can be labeled for easier identification during input selection. (In selecting input mode of p. 29 ②)

Select the terminal and the label of the external equipment

Input labels	
Comp. 1	SKIP
Comp. 2	SKIP
HDMI 1	DVD
HDMI 2	AUX
Video 1	VCR
Video 2	SKIP

Input labels	
Video 3	SKIP
PC	SKIP
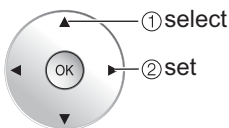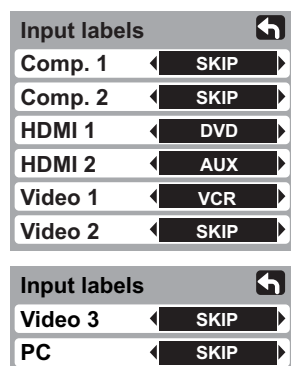
① select
② set

● Terminals: Comp.1-2/HDMI 1-2/ Video1-3/PC
● Label: SKIP*/VCR/DVD/CABLE/ DBS/PVR/GAME/AUX/[BLANK] (for PC terminal, only SKIP and [BLANK] are available)

Label   Terminal
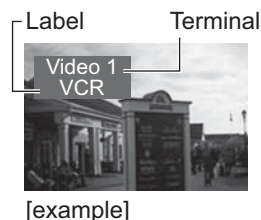
Video 1
VCR

[example]

* If "SKIP" is selected for a non-connected terminal, its input is skipped when switched with TV/VIDEO button.

The television includes a built-in decoder that is capable of providing a text display of the audio. The program being viewed must be transmitting Closed Captioning (CC) information. (p. 52)

■ Select the item and set

CC	
Mode	Off
Analog	CC1
Digital	Primary
Digital setting	
CC reset	
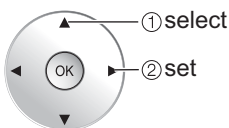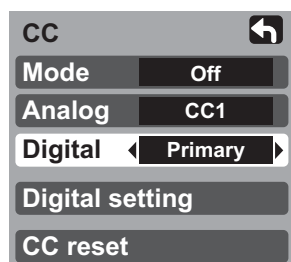
① select
② set

● The settings in "Analog" or "Digital" depend on the broadcaster.

Mode

Select "On" (when not using, select "Off").

Analog (Choose the closed caption service of Analog broadcasting.)

CC1-4: Information related to pictures (Appears at bottom of screen)

T1-4: Textual information (Appears over entire screen)

Digital (The Digital Closed Caption menu lets you configure the way you choose to view the digital captioning.)

Select the setting.
● "Primary", "Second.", "Service 3", "Service 4", "Service 5", "Service 6"

■ To make more in-depth display settings in digital programs

① Select "Digital setting" and press "OK" button

② Select the item and set

Digital setting	
Size	Automatic
Font	Automatic
Style	Automatic

(1/3)

① select
② set
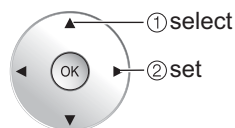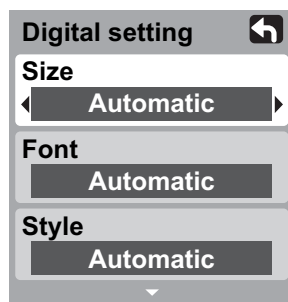
● Size: Text size
● Font: Text font
● Style: Text style (Raised, Depressed, etc.)
● Foreground: Color of text
● Fore opacity: Opacity of text
● Background: Color of text box
● Back opacity: Opacity of text box
● Outline: Outline color of text
(Identify the setting options on the screen.)

■ To reset the settings

Select "CC reset" and press "OK" button

Using Timer

The TV can automatically turn On/Off at the designated date and time.
● The Clock must be set before On time/Off time settings. (p. 13)

1 Display menu

MENU

2 Select "Timer"

Menu
☐ Picture
♪ Audio
⏻ Timer
🔒 Lock
📖 TVG/Photo
🔧 Setup

② next
① select

3 Select the timer to set
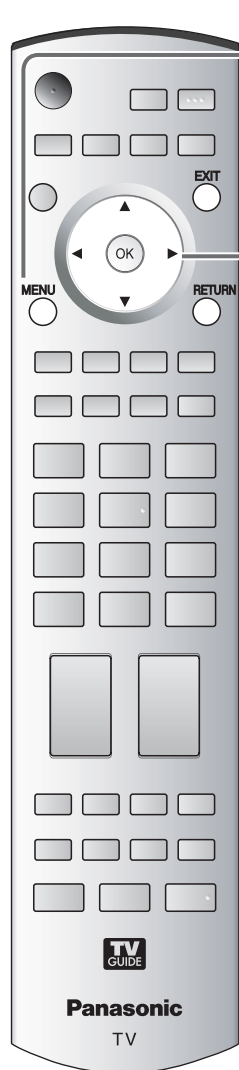
Timer	↰
Sleep	
Timer 1	
Timer 2	
Timer 3	
Timer 4	
Timer 5	
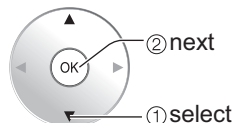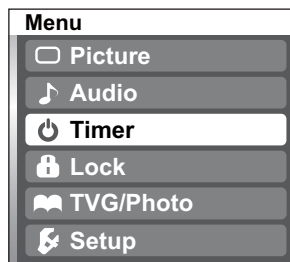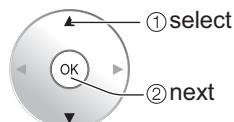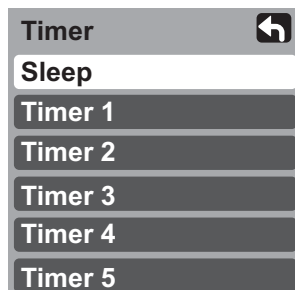
① select
② next

Sleep	Turns Off automatically
Timer 1	Turns On/Off automatically
⟨	(5 timers can be set.)
Timer 5	

4 Set the timer

■ **To set "Sleep" (Off Timer)**

Press to set unit to shut itself off after a preselected amount of time.

Sleep	↰
Sleep	◀ 60 ▶
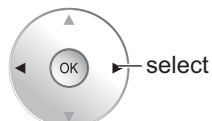
select

● 0/30/60/90 (minutes)

■ **To set "Timer 1-5" (On/Off Timer)**

Select the item and set

Timer 1	↰
CH	◀ 310 - 1 ▶
Day	EVR FRI
On time	10:00 AM
Off time	11:00 AM
Set	On
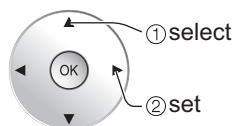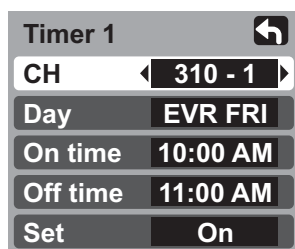
① select
② set

CH	Select the channel
Day	Select the day

SUN/MON/TUE/WED/THU/FRI/SAT/
MON-FRI/SAT-SUN/DAILY/EVR SUN/
EVR MON/EVR TUE/EVR WED/EVR THU/
EVR FRI/ EVR SAT

On time	The time to turn On
Off time	The time to turn Off
Set	Timer setting (On/Off)

■ **Press to exit**

EXIT

■ **Press to return to the previous screen**

RETURN
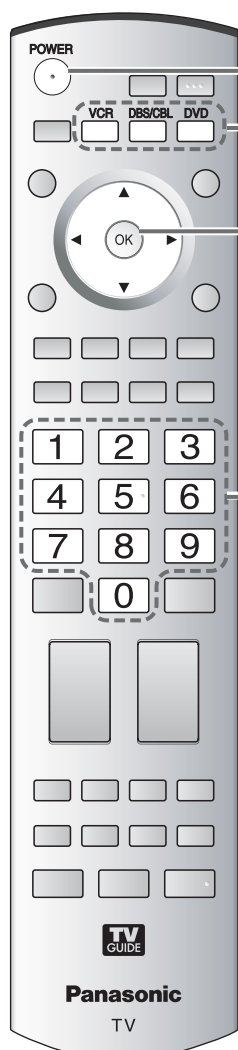
Note

● The TV automatically turns Off after 90 minutes when turned On by the Timer. This operation will be cancelled if the Off time is selected or if a key is pressed.

Panasonic
TV

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Operating Peripheral Equipment

You can operate other manufacturers' components using this TV's remote control.

1 Connect the external devices to the TV and **turn Off the external equipment**

2 POWER + OK **Press both buttons simultaneously for more than 3 seconds.**
- Release the buttons when the equipment selection buttons start flashing.

3 VCR DBS/CBL DVD **Select the equipment** with the equipment selection button
- The selected button remains lit (other buttons are not lit).

4 **Input the equipment's 4-digit remote control code** (p. 49-50)

5 POWER **Confirm the equipment with the remote control**
- The external equipment turns On.

■**If the equipment does not operate with remote control**
- When your equipment has a single code
  ➡ Input the remote control code again
- When your equipment has multiple codes
  ➡ Change the code with ❹ above and test again (p. 49-50)

(**Caution**)
- Registration will fail if the wrong code is input or it takes more than 30 seconds to register.

To find a code not listed in the code list

This procedure searches all codes and is called the "sequence method."

①**After step ❸ above, change the code and test**

OK ← change

POWER

➡ Operate the equipment with the remote control (p. 48)

- Repeat until the code is found
- It may take many attempts before the correct code is found

②**When the correct code is found**

OK — store
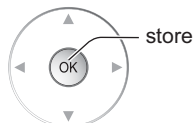
Recommended AV Connections

These diagrams show our recommendations for how to connect the TV unit to your various equipment.
For other connections, consult the instructions of each equipment, and the specifications (p. 61).
For additional assistance, please visit our website at : www.panasonic.com
www.panasonic.ca

INPUT3

Back of the unit

AC Cord
(Connect after all the other connections.)

■To watch camcorder images

Camcorder
S-Video
Camcorder
VCR/S-Video
VCR
DVD Player

G-LINK

IR Blaster
(Supplied)

■To watch cable TV

INSERT THIS END

CableCARD™

■PC

RGB PC cable

Conversion adapter (if necessary)

Computer

Audio cable

Cable TV   or

● For receiving digital broadcasting of cable TV, connect Cable TV directly to "ANTENNA Cable In" terminal.

● **CableCARD™**
Insert a card to watch cable channels serving digital high-definition video.
Consult the cable company for information.

● **IR Blaster** (p. 56)
You can operate the VCR from the TV remote control or reserve recording with TV Guide.
Install the light emitting area of the IR Blaster near the signal-receiving area for the remote control on the VCR.

• Digital audio amplifier
• Theater system

■To watch DVDs
DVD Player
Set Top Box

(VCR Only)

Note

● To make schedule recording using TV Guide with IR blaster, you have to select in your VCR Line-1 (L-1) and set your VCR in OFF condition. (Refer to the Operating Instruction manual of VCR)

■To record TV shows
DVD Recorder /
VCR

RF OUT

or

RF IN

Top shelf of TV stand

Mount with two-sided tape

VCR

Signal-emitting area

Signal-emitting area of remote control

VCR

Signal-receiving area of remote control

■ **Recommended HDMI Connections** (p. 36-37)

HDMI

HDMI 1
AUDIO IN
R   L

AV IN

■ **To watch digital video image**

or

or

or

F-Type
Antenna
Adapter

ANTENNA
Cable In

DIGITAL
AUDIO
OUT

AUDIO
IN

PC

Y

VIDEO

P_B

P_R

AUDIO

R
L

COMPONENT VIDEO
INPUT
1

Y

P_B

P_R

R

2

S-VIDEO

S-VIDEO

INPUT
1

VIDEO

AUDIO

R

INPUT
2

TO AUDIO AMP

PROG OUT

HDMI 2
AUDIO IN

HDMI
cable

HDMI-DVI
conversion
cable

Audio cable

DVD Player or Set Top Box
(HDMI compatible machines only)

Note

- The picture and audio input signals connected to a terminal specified in "Prog-out stop" (p. 32) cannot be output from "OUTPUT" terminals. However, audio output can be obtained from the optical Digital Audio Out terminal.
- To prevent howling and image oscillation, set the "Prog-out-stop" setting when connecting VCR with loop-connection. (p. 32)
- When a device (STB, DVD, etc.) is connected to the HDMI or COMPONENT terminals, only audio signals will be output. No video signals will be output.

■ **To listen to the TV through speakers**

Amplifier

- Turn Off the TV speakers. (p. 32 "Speakers")

S-Video signals have priority

Caution

- For Antenna connection via VCR, please refer to the Operating Instructions for your VCR.
- If you use both IR Blaster and "HDAVI Control" (P. 34) for the same Panasonic DIGA (with VCR type), please set "Power off link" (under "Other adjust" of "Setup" menu) to "No" (P. 34), to avoid failure for your recording.

● Recommended AV Connections

Advanced

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Remote Control Operation/Code List

The following explains how to operate external devices with the remote control.
- Register the remote control codes (p. 45) if you want to operate an external device of another manufacturer. (p. 49-50)

Note
- Operation may not be possible depending on the available memory size of the remote control.
  This remote control is not designed to cover operation of all functions of all models.

■Remote Control Operation List

This chart defines which keys are operational after programming (if needed),
while in the selected remote control mode, VCR, DBS/CBL, DVD.

KEY NAME	VCR MODE	DBS/CBL MODE		DVD MODE
		(DBS)	(CBL)	
POWER	Power	Power	Power	Power
TV/VIDEO	TV Input Switch	TV Input Switch	TV Input Switch	TV Input Switch
EXIT	—	Exit	Exit	—
(cursor/OK)	—	DBS Cursor Up/Down/Right/Left	CBL Cursor Up/Down/Right/Left	DVD Cursor Up/Down/Right/Left
	—	Ok	Ok	Ok
MENU	—	DBS Menu	CBL Menu	DVD Setup Menu
RETURN	—	—	—	Return, Clear
MUTE	TV Mute	TV Mute	TV Mute	TV Mute
ASPECT	—	Aspect	Aspect	DVD Disc Menu
FAVORITE	—	—	—	Title
RECALL	Onscreen Display	Onscreen Display	Onscreen Display	Onscreen Display
0 ~ 9	0-9	0-9	0-9	0-9
R-TUNE	—	DBS Previous Channel	CBL Previous Channel	Drive Select
CH ∧∨	Channel Up/Down	DBS Channel Up/Down	CBL Channel Up/Down	Channel Up/Down
VOL +−	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down
SLEEP	—	Sleep	Sleep	—
TV/VCR	TV/VCR Switch	TV/DBS Switch	TV/CBL Switch	—
REC	VCR Record	PVR Record *1	PVR Record *1	Record
OPEN/CLOSE	—	Search *1	Search *1	Open/Close
SKIP SPLIT SWAP	—	—	—	Skip Reverse/Forward
SEARCH	Reverse/Forward	—	—	Rewind/Fast Forward
STOP	Stop	—	—	Stop
PAUSE	Pause	—	—	Pause
PLAY	Play	—	—	Play

*1: Combination type

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■Remote Control Code List

Cable Converter (DBS/CBL)

Brand	Code	Brand	Code	Brand	Code	Brand	Code
ABC	0003, 0008	Hamlin	0009, 0273	Philips	0317, 1305	Scientific Atlanta	0008, 0477, 0877, 1877
Americast	0899	Jerrold	0003, 0276, 0476, 0810	Pioneer	0144, 0533, 0877, 1877	Sony	1006
Bell South	0899	Memorex	0000	Pulsar	0000	Starcom	0003
Digeo	1187	Motorola	1376, 0276, 0476, 0810, 1187	Quasar	0000	Supercable	0276
Director	0476	Pace	0008, 0237, 1877	Regal	0273, 0279	Torx	0003
General Instrument	0003, 0276, 0476, 0810	Panasonic	0000, 0107	Runco	0000	Toshiba	0000
GoldStar	0144	Paragon	0000	Samsung	0144	Zenith	0000, 0525, 0899

Satellite Receiver (DBS/CBL)

Brand	Code	Brand	Code	Brand	Code	Brand	Code
AlphaStar	0772	General Instrument	0869	Magnavox	0722, 0724	Samsung	1108, 1109, 1142, 1276, 1377, 1442, 1609
Chaparral	0216			Memorex	0724		
Crossdigital	1109	GOI	0775, 1775	Mitsubishi	0749	Sanyo	1219
DirecTV	0099, 0247, 0392, 0566, 0639, 0724, 0749, 0819, 1076, 1108, 1109, 1142, 1377, 1392, 1414, 1442, 1443, 1444, 1609, 1639, 1640, 1749, 1856	Goodmans	1246	Motorola	0856, 0869	Sony	0639, 1639, 1640
		Hisense	1535	NEC	1270	Star Choice	0869
		Hitachi	0819, 1250	Next Level	0869	Tivo	1142, 1442, 1443, 1444
		HTS	0775, 1775	Panasonic	0152, 0247, 0701, 1786	Toshiba	0749, 0790, 0819, 1285, 1749
		Hughes	0749, 1442, 1749	Paysat	0724	UltimateTV	1392, 1640
Dish Network System	0775, 1005, 1170, 1505, 1775	Hughes Network Systems	0749, 1142, 1442, 1443, 1444, 1749	Philips	0099, 0722, 0724, 0749, 0819, 1076, 1142, 1442, 1749	Uniden	0722, 0724
						US Digital	1535
Dishpro	0775, 1005, 1505, 1775	iLo	1535	Pioneer	1442	USDTV	1535
Echostar	0775, 1005, 1170, 1505, 1775	Janeil	0152	Proscan	0392, 0566	Voom	0869
Expressvu	0775, 1775	Jerrold	0869	Proton	1535	Zenith	1856
GE	0392, 0566	JVC	0775, 1170, 1775	RadioShack	0869		
		LG	1226, 1414	RCA	0143, 0392, 0566, 0855, 1392		

Cable/PVR Combination (DBS/CBL)

Brand	Code	Brand	Code	Brand	Code	Brand	Code
Americast	0899	Jerrold	0476, 0810	Pioneer	0877, 1877	Supercable	0276
Digeo	1187	Motorola	0476, 0810, 1187, 1376	Scientific Atlanta	0877, 1877	Zenith	0899
General Instrument	0476, 0810	Pace	0237, 1877	Sony	1006		

DBS/PVR Combination (DBS/CBL)

Brand	Code	Brand	Code	Brand	Code	Brand	Code
DirecTV	0099, 0392, 0639, 1076, 1142, 1377, 1392, 1442, 1443, 1444, 1640	Dishpro	0775, 1505	JVC	1170	Samsung	1442
		Echostar	0775, 1170, 1505	Motorola	0869	Sony	0639, 1640
		Expressvu	0775	Philips	1142, 1442	Star Choice	0869
Dish Network System	0775, 1505	Hughes Network Systems	1142, 1442, 1443, 1444	Proscan	0392		
				RCA	1392		

VCR (VCR)

Brand	Code	Brand	Code	Brand	Code	Brand	Code
ABS	1972	Hewlett Packard	1972	NEC	0067	Scott	0043, 0045
Adventura	0000	Hitachi	0000, 0042, 0089	Nikko	0037	Sears	0000, 0035, 0037, 0042, 1237
Aiwa	0000, 0037, 0124	Howard Computers	1972	Niveus Media	1972	Sharp	0807, 0848
Akai	0175	HP	1972	Northgate	1972	Sonic Blue	0614, 0616
Alienware	1972	Hughes Network Systems	0042, 0739	Olympus	0035, 0226	Sony	0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972
American High	0035			Onkyo	0222		
Audiovox	0037	Humax	0739	Optimus	0037	Stack 9	1972
Broksonic	1479	Hush	1972	Orion	1479	STS	0042
Calix	0037	iBUYPOWER	1972	Panasonic	0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244	Sylvania	0000, 0035, 0043, 1781
Canon	0035	JVC	0067			Symphonic	0000
Citizen	0037, 1278	KEC	0037	Penney	0035, 0037, 0042, 1035, 1237	Systemax	1972
Craig	0037	Kenwood	0067	Pentax	0042	Tagar Systems	1972
Curtis Mathes	0035, 0060, 1035	Kodak	0035, 0037	Philco	0035	Teac	0000
CyberPower	1972	Linksys	1972	Philips	0035, 0618, 0739, 1081, 1181	Technics	0035
Daewoo	0045, 1278	Lloyd's	0000	Pilot	0037	Teknika	0000, 0035, 0037
Dell	1972	LXI	0037	Pioneer	0067	Thomas	0000
Denon	0042	Magnasonic	1278	Proscan	0060, 1060	Tivo	0618, 0636, 0739
DirecTV	0739	Magnavox	0000, 0035, 0039, 1781	Pulsar	0039	Toshiba	0043, 0045, 0845, 1008, 1145, 1972
Durabrand	0039	Marantz	0035	Quasar	0035, 0077, 1035		
Dynatech	0000	Marta	0037	RadioShack	0000	Totevision	0037
Electrohome	0037, 0043	Matsushita	0035	Radix	0037	Touch	1972
Electrophonic	0037	Media Center PC	1972	Randex	0037	Vector	0045
Emerex	0032	MEI	0035	RCA	0042, 0060, 0077, 0807, 0880, 1035, 1060	Video Concepts	0045
Emerson	0000, 0037, 0043, 1278, 1479	Memorex	0000, 0035, 0037, 0039, 1237			Videomagic	0037
Fuji	0033, 0035	MGA	0043	Realistic	0000, 0035, 0037	Viewsonic	1972
Funai	0000	Microsoft	1972	ReplayTV	0614, 0616	Villain	0000
Garrard	0000	Mind	1972	Ricavision	1972	Voodoo	1972
Gateway	1972	Minolta	0042	Runco	0039	Wards	0000, 0035, 0042, 0060
GE	0035, 0060, 0807, 1035, 1060	Mitsubishi	0043, 0067, 0807	Samsung	0045, 0739, 1014	XR-1000	0000, 0035
GoldStar	0037, 1237	Motorola	0035	Sanky	0039	Zenith	0000, 0033, 0039, 1479
Gradiente	0000	MTC	0000	Sansui	0000, 0067, 1479	ZT Group	1972
Harley Davidson	0000	Multitech	0000	Sanyo	0159		

Remote Control Operation/Code List

■ Remote Control Code List

DBS/PVR Combination (VCR)

Brand	Code	Brand	Code	Brand	Code	Brand	Code
Hughes Network Systems	0739	Philips	0739				
		Samsung	0739				

PVR (VCR)

Brand	Code	Brand	Code	Brand	Code	Brand	Code
ABS	1972	Hughes Network Systems	0739	Niveus Media	1972	Systemax	1972
Alienware	1972			Northgate	1972	Tagar Systems	1972
CyberPower	1972	Humax	0739	Panasonic	0616		
Dell	1972	Hush	1972	Philips	0618, 0739	Tivo	0618, 0636, 0739
DirecTV	0739	iBUYPOWER	1972	RCA	0880	Toshiba	1008, 1972
Gateway	1972	Linksys	1972	ReplayTV	0614, 0616	Touch	1972
Hewlett Packard	1972	Media Center PC	1972	Sonic Blue	0614, 0616	Viewsonic	1972
Howard Computers	1972			Sony	0636, 1972	Voodoo	1972
		Microsoft	1972	Stack 9	1972	ZT Group	1972
HP	1972	Mind	1972				

DVD (DVD)

Brand	Code	Brand	Code	Brand	Code	Brand	Code
Adcom	1094	GoldStar	0741	Onkyo	0503, 0792	Sensory Science	1158
Allegro	0869	Gradiente	0490	Panasonic	0490, 0503, 0632, 0703, 1010, 1011, 1362, 1462, 1490, 1762, 1967		
Apex Digital	0672, 0794, 0796, 0797, 1004, 1056, 1061, 1100	Grundig	0539			Sharp	0630, 0675, 0752, 1256
		Hitachi	0573, 0664			Shinsonic	0533
		Hiteker	0672			Sonic Blue	0869
Aspire Digital	1168	Integra	0571	Philips	0503, 0539, 0646, 0675, 1267, 1354	Sony	0533, 0864, 1033, 1431, 1533
Blue Parade	0571	JVC	0558, 0623, 0867, 1164, 1275				
Broksonic	0695			PianoDisc	1024	Sylvania	0675
California Audio Labs	0490	Kenwood	0490, 0534	Pioneer	0525, 0571, 0631, 0632	Symphonic	0675
		Lecson	1533			Teac	0809
CineVision	0833, 0869	LG	0591, 0741, 0801, 0869	Polaroid	1061, 1086	Technics	0490, 0703
Coby	1086			Polk Audio	0539	Theta Digital	0571
CyberHome	0816, 1023, 1024, 1129	LiteOn	1158, 1440	Proceed	0672	Toshiba	0503, 0695, 1045, 1154
Daewoo	0833, 0869	Loewe	0511	Proscan	0522	Urban Concepts	0503
Denon	0490	Magnavox	0503, 0539, 0646, 0675	RCA	0522, 0571, 0822		
Disney	0675			Rio	0869	Xbox	0522
DVD2000	0521			Rotel	0623	Yamaha	0490, 0539, 0545
Emerson	0591, 0675	Marantz	0539	Sampo	0752	Zenith	0503, 0591, 0741,0869
Enterprise	0591	McIntosh	1533	Samsung	0490, 0573, 0820, 1075		
Funai	0675	Memorex	0695				
Gateway	1158	Microsoft	0522	Sansui	0695		
GE	0522	Mitsubishi	0521, 1521	Sanyo	0695, 0873, 1967		
Go Video	0741, 0833, 0869, 1075, 1158, 1304, 1730	NAD	0591, 0741				
		NEC	0785				

DVD Recorder (DVD)

Brand	Code	Brand	Code	Brand	Code	Brand	Code
Apex Digital	1056	Go Video	0741, 1158, 1304, 1730	Philips	0646	Sensory Science	1158
Aspire Digital	1168	JVC	1164, 1275	Pioneer	0631		
Coby	1086	LG	0741	Polaroid	1086	Sharp	0675
CyberHome	1129	LiteOn	1158, 1440	RCA	0522	Sony	1033, 1431
Funai	0675	Magnavox	0646	Samsung	0490	Sylvania	0675
Gateway	1158	Panasonic	0490, 1010, 1011			Zenith	0741

Ratings List for Channel Lock

"V-chip" technology enables you to lock out channels or shows according to standard ratings set by the entertainment industry. (p. 39)

■ U.S. MOVIE RATINGS (MPAA)

Off	NO RATING (NOT RATED) AND NA (NOT APPLICABLE) PROGRAMS. Movie has not been rated or rating does not apply.
G	GENERAL AUDIENCES. All ages admitted.
PG	PARENTAL GUIDANCE SUGGESTED. Some material may not be suitable for children.
PG-13	PARENTS STRONGLY CAUTIONED. Some material may be inappropriate for children under 13.
R	RESTRICTED. Under 17 requires accompanying parent or adult guardian.
NC-17	NO ONE 17 AND UNDER ADMITTED.
X	ADULTS ONLY.

■ U.S. TV PROGRAMS RATINGS (U. S. TV)

Age-based Group	Age-based Ratings	Possible Content Selections	Description
NR (Not Rated)	TV-NR	● Viewable ● Blocked	Not Rated.
Youth	TV-Y	● Viewable ● Blocked	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
	TV-Y7	● FV Blocked ● Viewable ● Blocked	Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
Guidance	TV-G	● Viewable ● Blocked	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
	TV-PG	● D,L,S,V (all selected) ● Any combination of D, L, S, V	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
	TV-14	● D,L,S,V (all selected) ● Any combination of D, L, S, V	Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.
	TV-MA	● D,L,S,V (all selected) ● Any combination of L, S, V	Mature audiences only. This program may contain mature themes, profane language, graphic violence, and explicit sexual content.

FV: Fantasy/Cartoon Violence.   V: Violence   S: Sex   L: Offensive Language   D: Dialogue with sexual content.

CANADIAN ENGLISH RATINGS (C. E. L. R)

E	Exempt - Exempt programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
C	Programming intended for children under age 8. No offensive language, nudity or sexual content.
C8+	Programming generally considered acceptable for children 8 years and over. No profanity, nudity or sexual content.
G	General programming, suitable for all audiences.
PG	Parental Guidance suggested. Some material may not be suitable for children.
14+	Programming contains themes or content which may not be suitable for viewers under the age of 14. Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens.
18+	18+ years old. Programming restricted to adults. Contains constant violence or scenes of extreme violence.

■ CANADIAN FRENCH RATINGS (C. F. L. R)

E	Exempt - Exempt programming.
G	General - Programming intended for audience of all ages. Contains no violence, or the violence content is minimal or is depicted appropriately.
8 ans+	8+ General - Not recommended for young children. Programming intended for a broad audience but contains light or occasional violence. Adult supervision recommended.
13 ans+	Programming may not be suitable for children under the age of 13 - Contains either a few violent scenes or one or more sufficiently violent scenes to affect them. Adult supervision strongly suggested.
16 ans+	Programming may not be suitable for children under the age of 16 - Contains frequent scenes of violence or intense violence.
18 ans+	Programming restricted to adults. Contains constant violence or scenes of extreme violence.

● Remote Control Operation/Code List   ● Ratings List

FAQs, etc.

Technical Information

Closed Caption (CC)

- For viewing Closed Caption of digital broadcasting, set the aspect ratio to FULL.
  (If viewing with H-FILL, JUST, ZOOM or 4:3, characters will be cut off.)
- The closed caption is not displayed when you use HDMI connection.
- If analog connected equipment is used for displaying or recording, closed caption (CC) should be set On/Off on the connected equipment.
  The CC mode setting of the TV will not affect the analog input.
  If a digital program is being output in analog format, the CC data will also be output in analog format.
  If digital connected equipment is used for input, CC should be set On on either the connected equipment or the TV.
  If CC is set On on both the connected equipment and the TV, captions from each unit will overlap.

Aspect Ratio

Let you choose the aspect depending on the format of the received signal and your preference. (p. 18)

- FULL
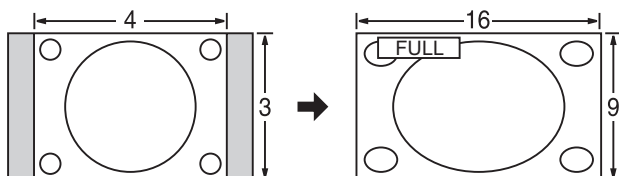
Enlarges the 4:3 image horizontally to the screen's side edges.
(Recommended for anamorphic picture)

- JUST
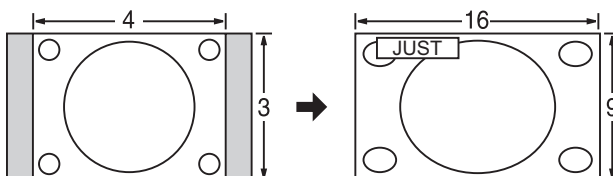
Stretches to justify the 4:3 image to the four corners of the screen.
(Recommended for normal TV broadcast)

- H-FILL
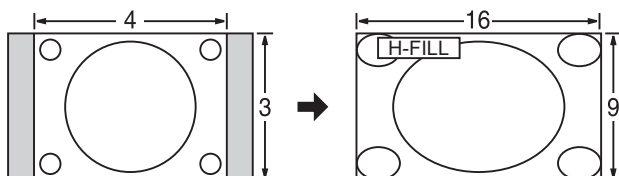
Enlarges the 4:3 image horizontally to the screen's side edges. The side edges of the image are cut off.

- 4:3
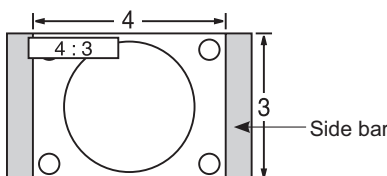
Side bar

Standard
(Note that "after image" of the side bar may occur from displaying it for a long time.)

- ZOOM
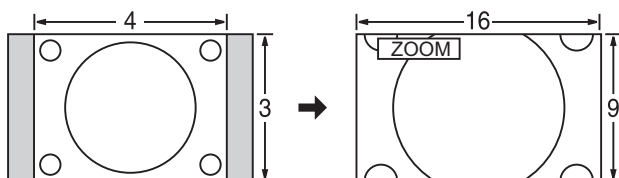
Enlarges the 4:3 image to the entire screen.
(Recommended for Letter Box)

Note

- 480i (4:3), 480i (16:9), 480p (4:3), 480p (16:9) : FULL, JUST, 4:3 or ZOOM
- 1080p / 1080i / 720p : FULL, H-FILL, JUST, 4:3 or ZOOM.
- When the signal is 720p/1080i/1080p, the aspect mode automatically defaults to Full after turning off the TV, after changing input mode, or after changed signal resolution other than 720p/1080i/1080p.

- Zoom adjust
  Vertical image position and size can be adjusted in "ZOOM."
  ① Select "Zoom adjust" on the Picture menu. (p. 32)
  ② Vertical position adjustment   Vertical size adjustment
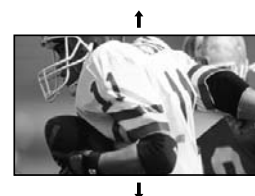
- To reset the aspect ratio ➡ (OK)

Data format for Card browsing

Photo: Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF standards

Data format: Baseline JPEG 160X120-2,560X1,920 pixels (Sub-sampling: 4:4:4, 4:4:2 or 4:2:0)

Max. number of files: 9,999

Image resolution: 8 x 8 to 5,120 x 3,840

      * DCF (Design rule for camera file system): A Japan Electronics and Information Technology Industries Association's standard

Caution
● A JPEG image modified with a PC cannot be displayed.
● Partly degraded files might be displayed at a reduced resolution.

Note
● Folder structure viewed in PC

  📁 DCIM —————————————— Created automatically

      📁 100_PANA ——————— 3-digit folder number + 5-digit arbitrary characters

          P1000001.JPG ——— 4-digit arbitrary characters + 4-digit file number
          P1000002.JPG   ● Usable characters: 1-byte "a to z", "A to Z", "0 to 9," and "_"
          P1000003.JPG
          P1000004.JPG
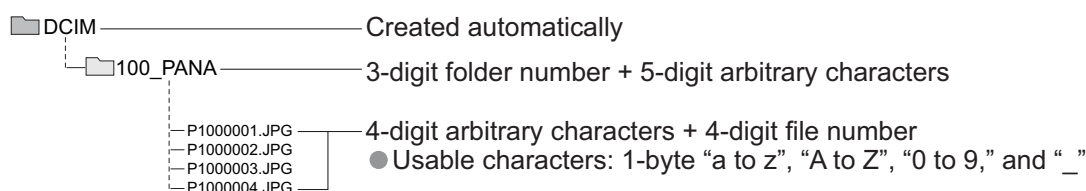
● The folder and file names may be different depending on the digital camera used.
● Suitable SD Memory Cards. Please confirm the latest information on the following website.
  http://panasonic.co.jp/pavc/global/cs (This site is in English only)

DIGITAL AUDIO OUT terminals

You can enjoy your home theater by connecting a Dolby Digital (5.1 channel) decoder and "Multi Channel" amplifier to the DIGITAL AUDIO OUT terminals.

Caution
● Depending on your DVD player and DVD-Audio software the copyright protection function may operate and disable optical output.
● External speakers cannot be connected directly to PROG.OUT terminals.
● When ATSC channel is selected, the output from the DIGITAL AUDIO OUT jack will be Dolby Digital. When NTSC channel is selected, the output will be PCM.

Control with HDMI "HDAVI Control™"

HDMI connections to some Panasonic equipment allow you to enjoy the easy playback or home theater.
● Setup the equipment to enable this function. Read the manual of the equipment.
● Switch the TV unit on again with the equipment on when connection or setup is changed.
● This function may not work normally depending on the equipment condition.
● The equipment can be operated by TV's remote control with this function on even if TV is in Standby mode.
● Image or sound may not be available for the first few seconds when the playback starts.
● Image or sound may not be available for the first few seconds when Input mode is switched.
● Volume function will be displayed when adjusting the volume of the equipment.
● Easy playback is also available by using the remote control for Amplifier. Read the manuals of Amplifier.

● Technical Information

FAQs, etc.

Technical Information

HDMI connection

HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and high-quality sound by connecting the TV unit and the devices.
HDMI-compatible equipment (*1) with an HDMI or DVI output terminal, such as a set top box or a DVD player, can be connected to the HDMI terminal using an HDMI compliant (fully wired) cable.

● HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
● If the external device has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (*2).
● When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
● Audio settings can be made on the "HDMI1 in" or "HDMI2 in" menu screen. (p. 32)
  Applicable audio signal sampling frequencies (L.PCM): 48 kHz, 44.1 kHz, 32 kHz

(*1): The HDMI logo is displayed on an HDMI-compliant device.
(*2): Enquire at your local digital device retailer shop.

Caution

● Use with a PC is not assumed.
● All signal is reformatted before being displayed on the screen.
● If the connected device has an aspect adjustment function, set the aspect ratio to "16:9".
● This HDMI connector is "type A".
● A device having no digital output terminal may be connected to the input terminal of either "COMPONENT", "S VIDEO", or "VIDEO" to receive analog signals.
● The HDMI input terminal can be used with only the following image signals: 480i, 480p, 720p, 1080i and 1080p. Match the output setting of the digital device.
● For details of the applicable HDMI signals, see below.

Input signal that can be displayed

* Mark: Applicable input signal for Component (Y, P_B, P_R), and HDMI

|	horizontal frequency (kHz)	vertical frequency (Hz)	COMPONENT	HDMI	PC
525 (480) / 60i	15.73	59.94	*	*	
525 (480) /60p	31.47	59.94	*	*	
750 (720) /60p	45.00	59.94	*	*	
1,125 (1,080) /60i	33.75	59.94	*	*	
1,125 (1,080) /60p	67.43	59.94		*	
1,125 (1,080) /60p	67.50	60.00		*	
640 × 400 @70	31.47	70.08			*
640 × 480 @60	31.47	59.94			*
Macintosh13" (640 × 480)	35.00	66.67			*
640 × 480 @75	37.50	75.00			*
852 × 480 @60	31.47	59.94			*
800 × 600 @60	37.88	60.32			*
800 × 600 @75	46.88	75.00			*
800 × 600 @85	53.67	85.08			*
Macintosh16" (832 × 624)	49.73	74.55			*
1,024 × 768 @60	48.36	60.00			*
1,024 × 768 @70	56.48	70.07			*
1,024 × 768 @75	60.02	75.03			*
1,024 × 768 @85	68.68	85.00			*
Macintosh 21" (1,152 × 870)	68.68	75.06			*
1,280 × 1,024 @60 Hz	63.98	60.02			*
1,366 × 768 @60 Hz	48.36	60.00			*

Note

● Signals other than above may not be displayed properly.
● The above signals are reformatted for optimal viewing on your display.

Side Bar

Do not display a picture in 4:3 mode for an extended period, as this can cause an after-image to remain on either or both sides of the display field.
To reduce the risk of such an after-image, change the brightness of the side bars.
● The side bar may flash (alternate black/white) depending on the picture. Using Cinema mode will reduce such flashing (see below).

Side Bar ⌐   ⌐ after-images ⌐

| 4:3 Screen Display | ⇨ |
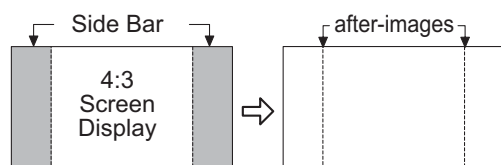
Pic. mode

● Vivid (default) : Provides enhanced picture contrast and sharpness for viewing in a well-lit room.
● Standard   : Recommended for normal viewing conditions with subdued room lighting.
● Cinema   : For watching movies in a darkened room. It provides a soft, film-like picture.

TV Guide (Reminder Screen)

If you skip TV Guide On Screen Setup you see the TV Guide On Screen Reminder screen the next time you power On your TV.

Press ▲/▼ to highlight an option, and press OK.
● Start setup : Begins setup process
● Remind me to set up later : Closes screen and displays reminder next time you power On the TV
● Don't remind me again : Closes screen and does not display reminder next time you power On the TV
Press ⬛ᵀⱽ ᴳᵁᴵᴰᴱ to close the screen.

Split - Screen

● TV screen (RF input) cannot be displayed in both main and split frame simultaneously.
● Split function is not available when HDMI input and PC input is displayed. HDMI signal and PC input cannot be displayed in Split frame.

CableCARD™

● This menu is used to provide information when a CableCARD™ is inserted into the CableCARD™ slot on the back of the television. "CableCARD" is not accessible without inserting a CableCARD™ into the CableCARD™ slot. To receive the features offered by your cable company, you may have to subscribe to those services.

| **CableCARD** |

Note

Please contact your cable company regarding availability of the CableCARD™.
The CableCARD™ is needed to receive premium digital services (where available) through the Cable input. You may also be able to order call-ahead pay per view events.

● Technical Information

**FAQs, etc.**

Technical Information

PC Input Terminals Connection

- Computer signals which can be input are those with a horizontal scanning frequency of 15 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)
- Some PC models cannot be connected to the set.
- There is no need to use an adapter for computers with IBM PC/AT compatible D-sub 15P terminal.

- The maximum resolution

Aspect \ Model No.	TH-42PX600U	TH-50PX600U	TH-58PX600U
4:3	768 × 768	1,024 × 768	1,024 × 768
16:9	1,024 × 768	1,366 × 768	1,366 × 768

If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.

- Signal Names for D-sub 15P Connector
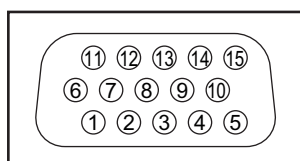
Pin Layout for PC Input Terminal

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
①	R	⑥	GND (Ground)	⑪	NC (not connected)
②	G	⑦	GND (Ground)	⑫	NC
③	B	⑧	GND (Ground)	⑬	HD/SYNC
④	NC (not connected)	⑨	NC (not connected)	⑭	VD
⑤	GND (Ground)	⑩	GND (Ground)	⑮	NC

IR Blaster connection

With the IR Blaster connection, scheduled recording can be done easily by using the TV Guide feature in this set. Connect the IR Blaster if you wish to send remote control signals from the plasma TV to control the recording of a connected video recorder (VCR).
Position the IR Blaster emitter facing the signal sensor of the video recorder and you will be able to easily record programs from digital broadcasts. (p. 46)

The TV acts as a proxy for some remote control operations of the VCR.

The TV converts scheduling data displayed on the TV to a remote control signal and sends it

G-LINK jack

IR Blaster (Supplied)

Video recorder (VCR)

Infrared emitter

TV

VCR

Setting the recording time, channel and recording mode, etc.

No need to set recording time or channel on the video recorder
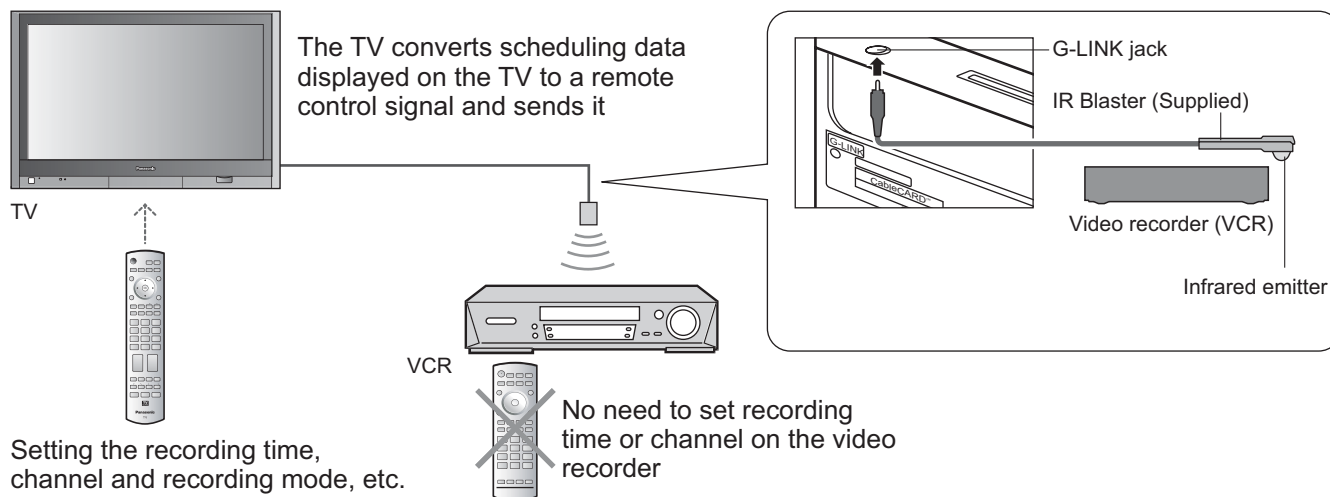
Maintenance

First, unplug the AC cord plug from the wall outlet.

Display panel

The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.
- If the surface is particularly dirty, soak a soft, lint-free cloth in a weak detergent solution and then wring the cloth to remove excess liquid. Use this cloth to wipe the surface of the display panel, then wipe it evenly with a dry cloth, of the same type, until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects. Furthermore, avoid contact with volatile substances such as insect sprays, solvents and thinner; otherwise, the quality of the surface may be adversely affected.

Cabinet

If the cabinet becomes dirty, wipe it with a soft, dry cloth.
- If the cabinet is particularly dirty, soak the cloth in a weak detergent solution and then wring the cloth dry. Use this cloth to wipe the cabinet, and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface of the Plasma TV. If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents and thinner; otherwise, the quality of the cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods in contact with articles made from rubber or PVC.

Pedestal

- Cleaning
  Wipe the surfaces with a soft, dry cloth. If the unit is particularly dirty, clean it using a cloth soaked with water to which a small amount of neutral detergent has been added, and then wipe with a dry cloth.
  Do not use products such as solvents, thinner or household wax for cleaning, as they can damage the surface coating. (If using a chemically-treated cloth, follow the instructions supplied with the cloth.)
- Do not attach sticky tape or labels, as they can make the surface of the pedestal dirty. Do not allow long-term contact with rubber, vinyl products or the like. (Doing so will cause deterioration.)

FAQ

Before requesting service or assistance, please follow these simple guides to resolve the problem.

If problem still persists, please contact your local Panasonic dealer or Panasonic Service center for assistance. For details (p. 63, 64)

For additional assistance, please contact our website at:

www.panasonic.com/contactinfo

www.panasonic.ca

White spots or shadow images (noise)
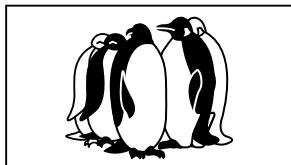
● Check the position, direction, and connection of the aerial.

Interference or frozen digital channels

(intermittent sound)

● Change the direction of antenna for digital channels .
● Check "Signal meter" (p. 41). If the signal is weak, check the antenna and consult your local dealer.
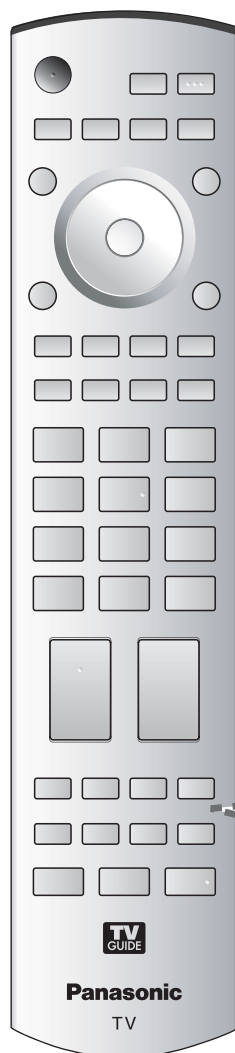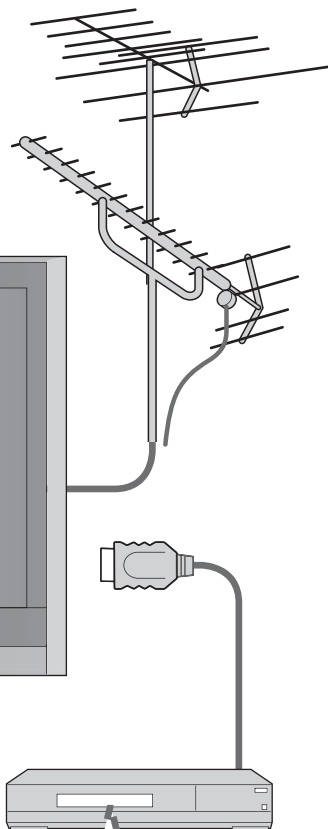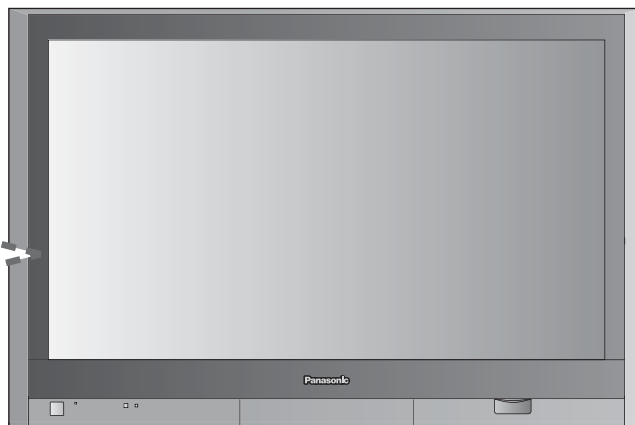
Pictures from external equipment are distorted when the unit is connected via HDMI

● Is the HDMI cable connected properly? (p. 36-37, 46-47)
● Turn Off the TV unit and equipment, then turn them On again.
● Check an input signal from the equipment. (p. 36-37, 46-47)
● Use a device compliant with EIA/CEA-861/861B.

The remote control does not work

● Are the batteries installed correctly? (p. 6)
● Has the battery run down?
● Has the TV POWER button been turned On?
● To operate external equipment of other manufacturers, register the remote control codes. (p. 45)

Before requesting service or assistance, please follow these simple guides to resolve the problem.
If problem still persists, please contact your local Panasonic dealer or Panasonic Service center
for assistance. For details (p. 63, 64)

Problem	Actions
Screen	
"Press any key to return" moves on the screen	● The function to prevent "after image" is activated. (Not a faulty symptom) ● The screen saver is activated if the TV unit is not operated for a certain time in SD mode. ● "after image" (p. 5)
One spot remains dark	● A pixel or luminescent spot can occasionally be missing in plasma displays. (Not a faulty symptom)
Chaotic image, noisy	● Check nearby electrical products (car, motorcycle, fluorescent lamp).
No image can be displayed	● Check Picture menu (p. 32)
Only spots are displayed instead of images	● Check the channel settings. (p. 40) ● Check the antenna cables.
Neither image nor sound is produced	● Is the AC power cord plugged into the outlet? ● Is the TV unit turned On? ● Check Picture menu (p. 19) and volume. ● Are the remote control codes correct? (p. 49-50)
Black Box appears	● Change settings of Closed Caption (CC). (p. 42)
Sound	
No sound is produced	● Is "Sound Mute" active? (p. 12) ● Is the volume set to the minimum? ● Is "Speakers" set to "Off"? (p. 32) ● Change "SAP" settings. (p. 19) ● Check "HDMI1 in" or "HDMI2 in" settings. (p. 32)
Sound is unusual	● Set "SAP" setting to "Stereo" or "Mono." ● Check the HDMI device connected to the unit. ● Set the audio setting of the HDMI device to "Linear PCM." ● If digital sound connection has a problem, select analog sound connection.
Whirling sound is heard	● The sound is from built-in cooling fan (not a sign of faulty operation).
HDMI	
"Control with HDMI" function does not work	● Switch the TV unit on again with the equipment on. ● Set "Control with HDMI" to "Off", then set to "On" again. (p. 34)

● Frequently Asked Questions

FAQs, etc.

59

FAQ

Problem	Actions
Show list disappears after blackout	● The list will be downloaded within 24 hours.
Channel display is not correct	● Set to the correct channel in "Change Channel Display". (p. 22)
Unable to execute the reserved recording	● Is VCR turned "Off" ? ● Is the videocassette inserted? ● Check "Schedule" if the show is set in the list. (p. 24) ● Check the position of IR Blaster. (p. 46)
Unable to receive the reserved broadcast	● Check "Schedule" if the show is set in the list. (p. 24) ● Check the installation of IR Blaster. (p. 46)
No show list appears in TV Guide	● Has it been 24 hours since completing the initial setup of TV Guide? (Some time is required for list downloading.) ● After initial setting, it takes a week to display the entire list for 8 days. ● Check the connection of the TV, the cables and the antenna.

TV Guide

Specifications

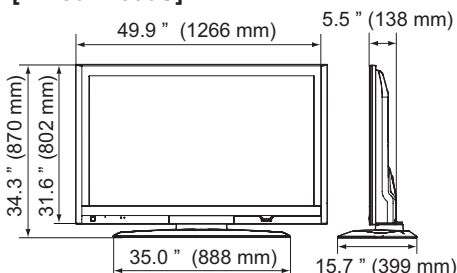|	TH-42PX600U	TH-50PX600U	TH-58PX600U
Power Source	AC 120 V, 50 / 60 Hz		
Power Consumption — Maximum	399 W	525 W	665 W
Power Consumption — Standby condition	0.2 W (With CableCARD™: 14.0 W)	0.2 W (With CableCARD™: 14.5 W)	0.2 W (With CableCARD™: 14.5 W)
Plasma Display panel — Drive method	AC type		
Plasma Display panel — Aspect Ratio	16:9		
Plasma Display panel — Contrast Ratio	(max) 10000:1		
Plasma Display panel — Visible screen size (W × H × Diagonal) (No. of pixels)	106 cmV / 36.3 ” × 20.4 ” × 41.6 ” (920 mm × 518 mm × 1,056 mm) / 786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]	127 cmV / 43.6 ” × 24.5 ” × 50.0 ” (1,106 mm × 622 mm × 1,269 mm) / 1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots]	148 cmV / 50.7 ” × 28.5 ” × 58.1 ” (1,287 mm × 723 mm × 1,476 mm) / 1,049,088 (1,366 (W) × 768(H)) [4,098 × 768 dots]
Sound — Speaker	Woofer Φ 3.2 ” (80 mm) × 2pcs, 8 Ω Speaker 0.9 ” × 4.0 ” (23 mm × 100 mm) × 2pcs, 8 Ω		
Sound — Audio Output	31 W [13 W + 2.5 W, 13 W + 2.5 W] (10 % THD)		
PC signals	VGA, SVGA, XGA SXGA ...... (compressed) Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz		
Channel Capability (Digital/Analog)	VHF/ UHF : 2-69, CATV:1-135		
Operating Conditions	Temperature : 32 °F - 104 °F (0 °C – 40 °C) Humidity : 20 % - 80 % RH (non-condensing)		
Connection Terminals — INPUT 1-3	VIDEO : RCA PIN Type × 1 1.0 V [p-p] (75 Ω) S-VIDEO : Mini DIN 4-pin Y:1.0 V [p-p] (75 Ω) C:0.286 V [p-p] (75 Ω) AUDIO L-R : RCA PIN Type × 2 0.5 V [rms]		
Connection Terminals — COMPONENT VIDEO INPUT 1-2	Y : 1.0 V [p-p] (including synchronization) PB, PR: ±0.35 V [p-p] AUDIO L-R : RCA PIN Type × 2 0.5 V [rms]		
Connection Terminals — HDMI 1-2	TYPE A Connector AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]		
Connection Terminals — PC	D-SUB 15PIN : R,G,B / 0.7 V [p-p] (75 Ω) HD, VD / 1.0 - 5.0 V [p-p] (high impedance) AUDIO L-R : Stereo Mini Jack (Φ3.5 mm) × 1		
Connection Terminals — IR Blaster	G-LINK Jack × 1		
Connection Terminals — Card slot	SD CARD slot × 1, CableCARD™ slot × 1		
Connection Terminals — AV PROG. OUT	VIDEO: RCA PIN Type × 1 1.0 V [p-p] (75 Ω) AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]		
Connection Terminals — DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic		
FEATURES	3D Y/C FILTER CableCARD™ slot CLOSED CAPTION V-Chip Split-Screen BBE VIVA 3D Photo Viewer TV Guide		
Dimensions (W × H × D) — Including pedestal	42.4 ” × 29.8 ” × 14.6 ” (1,077 mm × 755 mm × 369 mm)	49.9 ” × 34.3 ” × 15.7 ” (1,266 mm × 870 mm × 399 mm)	57.3 ” × 38.9 ” × 16.6 ” (1,454 mm × 986 mm × 420 mm)
Dimensions (W × H × D) — TV Set only	42.4 ” × 27.2 ” × 5.5 ” (1,077 mm × 689 mm × 138 mm)	49.9 ” × 31.6 ” × 5.5 ” (1,266 mm × 802 mm × 138 mm)	57.3 ” × 36.2 ” × 5.7 ” (1,454 mm × 918 mm × 143 mm)
Weight — Including pedestal	98.1 lb. (44.5 kg)	123.5 lb. (56 kg)	174.2 lb. (79 kg)
Weight — TV Set only	71.7 lb. (32.5 kg)	94.8 lb. (43 kg)	136.7 lb. (62 kg)

[TH-42PX600U]

42.4 ” (1077 mm)   5.5 ” (138 mm)
29.8 ” (755 mm)   27.2 ” (689 mm)
27.0 ” (684 mm)   14.6 ” (369 mm)

[TH-50PX600U]

49.9 ” (1266 mm)   5.5 ” (138 mm)
34.3 ” (870 mm)   31.6 ” (802 mm)
35.0 ” (888 mm)   15.7 ” (399 mm)

[TH-58PX600U]

57.3 ” (1454 mm)   5.7 ” (143 mm)
38.9 ” (986 mm)   36.2 ” (918 mm)
36.2 ” (918 mm)   16.6 ” (420 mm)
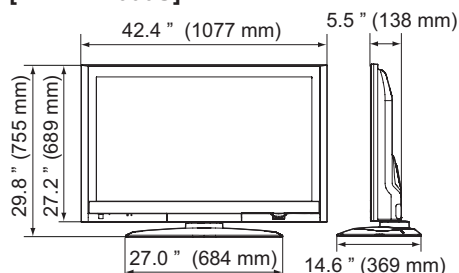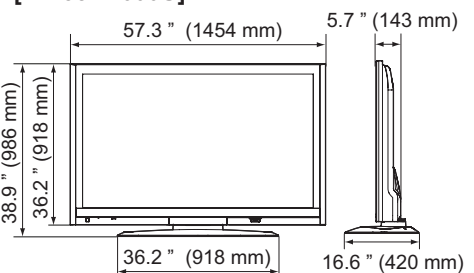
> **Note**

● Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

● Frequently Asked Questions ● Specifications

FAQs, etc.

Limited Warranty (for U.S.A.)

PANASONIC CONSUMER ELECTRONICS COMPANY,
DIVISION OF
PANASONIC CORPORATION OF NORTH AMERICA
One Panasonic Way
Secaucus, New Jersey 07094

PANASONIC SALES COMPANY,
DIVISION OF
PANASONIC PUERTO RICO INC.
Ave. 65 de Infanteria, Km. 9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985

Panasonic Color Television
Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Puerto Rico, Inc. (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("Limited Warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

CATEGORIES	ALL PARTS EXCEPT GLASS PANEL OR CRT	LABOR	GLASS PANEL OR CRT	GLASS PANEL OR CRT LABOR	SERVICE
PLASMA DISPLAY	1 (ONE) YEAR	1 (ONE) YEAR	GLASS PANEL - 2 (TWO) YEARS	1 (ONE) YEAR	IN-HOME OR CARRY-IN

During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" Limited Warranty period, there will be no charge for parts.

You must carry-in your product or arrange for in-home service during the Limited Warranty period. If non-rechargeable batteries are included, they are not warranted. This Limited Warranty only applies to products purchased and serviced in the United States or Puerto Rico. This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of the original purchase date is required for Limited Warranty service.

In-Home or Carry-in Service

For In-Home or Carry-In Service in the United States call 1-888-VIEW-PTV(1-888-843-9788).
For assistance in Puerto Rico call Panasonic Puerto Rico, Inc. (787)-750-4300 or fax (787)-768-2910.

In-Home service requires clear, complete and easy access to the product by the authorized servicer and does not include removal or re-installation of an installed product. It is possible that certain in-home repairs will not be completed in-home, but will require that the product, or parts of the product, be removed for shop diagnosis and/or repair and then returned.

Limited Warranty Limits And Exclusions

This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage, nor does it cover markings or retained images on the picture tube resulting from viewing fixed images (including, among other things, letterbox pictures on standard 4:3 screen TV's, or non-expanded standard 4:3 pictures on wide screen TV's, or onscreen data in a stationary and fixed location). The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, bug infestation, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, or travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE LIMITED WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied Limited Warranty lasts, so the exclusions may not apply to you.

This Limited Warranty gives you specific legal rights and you may also have others rights which vary from state to state. If a problem with this product develops during or after the Limited Warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE (INCLUDING COST OF AN IN-HOME SERVICE CALL, WHERE APPLICABLE) WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

Customer Services Directory (for U.S.A.)

Customer Services Directory

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Service center; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

http://www.panasonic.com/consumersupport

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

1-888-VIEW-PTV (843-9788)

Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

■For hearing or speech impaired TTY users, TTY : 1-877-833-8855

Accessory Purchases

Purchase Parts, Accessories and Instruction Books on line for all Panasonic Products by visiting our Web Site at:

http://www.pasc.panasonic.com

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday - Friday 9 am to 8 pm, EST.)

Panasonic Services Company

20421 84th Avenue South,

Kent, WA 98032

(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

■For hearing or speech impaired TTY users, TTY : 1-866-605-1277

Service in Puerto Rico

Panasonic Puerto Rico, Inc.
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park,
Carolina, Puerto Rico 00985
Phone (787)750-4300, Fax (787)768-2910

● Customer Services Directory (for U.S.A.)
● Limited Warranty (for U.S.A.)

FAQs, etc.

Limited Warranty (for Canada)

Panasonic Canada Inc.

PANASONIC PRODUCT - LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship and agrees to remedy any such defect for a period as stated below from the date of original purchase.

Plasma TV / Monitor	In-home service	One (1) year, parts (including Plasma Panel) and labour.
LCD TV (26 in & over)	In-home service	One (1) year, parts (including LCD Panel) and labour.
LCD TV (25 in & under)	Carry-in service only	One (1) year, parts (including LCD Panel) and labour.

In-home Service will be carried out only to locations accessible by roads and within 50 km of an authorized Panasonic service facility.

LIMITATIONS AND EXCLUSIONS

This warranty does not apply to products purchased outside Canada or to any product which has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during shipping, or which has been altered or repaired in any way that affects the reliability or detracts from the performance, nor does it cover any product which is used commercially. Dry cell batteries are also excluded from coverage under this warranty.

This warranty is extended to the original end user purchaser only. A purchase receipt or other proof of date of original purchase is required before warranty service is performed.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

In-home service requires clear, complete and easy access to the product by the Authorized Servicentre and does not include removal or re-installation of an installed product. If removal is required to service the product, it will be at the discretion of the Servicentre and in no event will Panasonic Canada Inc. or the Servicentre be liable for any special, indirect or consequential damages.

WARRANTY SERVICE

For product operation and information assistance, please contact:

Our Customer Care Centre:	Telephone #:	(905) 624-5505
	1-800 #:	1-800-561-5505
	Fax #:	(905) 238-2360
	Email link:	"Customer support" on www.panasonic.ca

FOR PRODUCT REPAIRS, please locate your nearest Authorized Servicentre at www.panasonic.ca :
Link: "Servicentres™ locator" under "Customer support"

IF YOU SHIP THE PRODUCT TO A SERVICENTRE
Carefully pack and send prepaid, adequately insured and preferably in the original carton.
Include details of the defect claimed, and proof of date of original purchase.

● Limited Warranty (for Canada)

FAQs, etc.

Note