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PLANAR **LCD TV XP17WSA MANUAL**

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TM-17
User's Manual

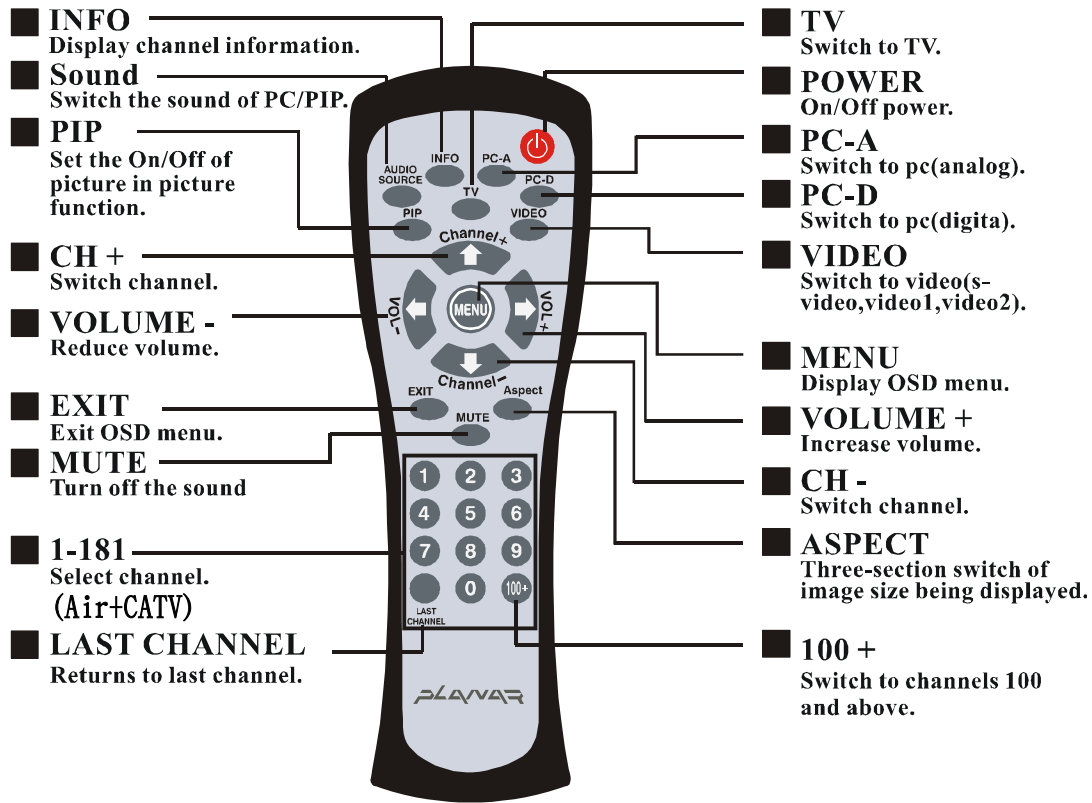Thank you for using our product.

This manual explains the use of our TFT LCD product TM-17 and important points. Please read through this manual before use and use as instructed. Please save this manual for future reference.

· Built-in TV channel selector for TV viewing.【P18】
· Simultaneous display of PC and TV images.【P19】
· Connectable to PC's analog RGB port and digital port.
· Built-in S-Video, Composite Video, and TV OUT.
· Built-in auto-adjust function for automatic adjustment of screen display. 【P17】
· Smoothing function enables display of smooth texts and graphics even if image with resolution lower than 1280x768 pixels is magnified.【P11】

Use of Remote Control

This product comes with a remote control, which can be used to view TV and switch channels. Please see below for names and functions of control buttons.

INFO
Display channel information.

Sound
Switch the sound of PC/PIP.

PIP
Set the On/Off of picture in picture function.

CH +
Switch channel.

VOLUME -
Reduce volume.

EXIT
Exit OSD menu.

MUTE
Turn off the sound

1-181
Select channel.
(Air+CATV)

LAST CHANNEL
Returns to last channel.

TV
Switch to TV.

POWER
On/Off power.

PC-A
Switch to pc(analog).

PC-D
Switch to pc(digita).

VIDEO
Switch to video(s-video,video1,video2).

MENU
Display OSD menu.

VOLUME +
Increase volume.

CH -
Switch channel.

ASPECT
Three-section switch of image size being displayed.

100 +
Switch to channels 100 and above.

[Tip] Please point the remote control at the receiver of LCD screen during use.

■ About the battery

The remote control in the package is not installed with batteries. Please open the case on the back of remote and load the 2 AAA batteries before use.
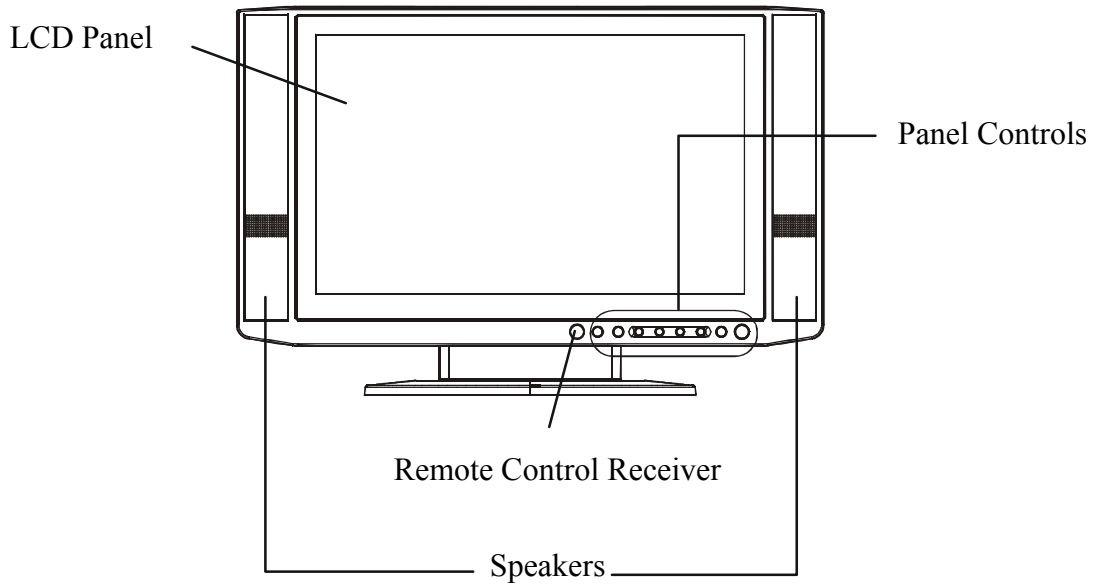
※ Make sure to match the polarity of the battery (+ and -) when installing it. When the batteries are used up, replace with AAA battery available on the market.
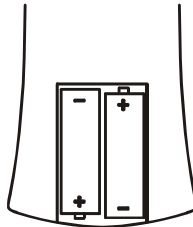
Package Contents
Your TFT-LCD package should contain the following items. If any item is missing, please contact your dealer.
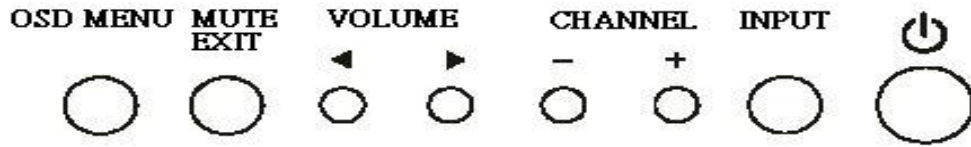
● TFT-LCD…………………………………………1

LCD Panel

Panel Controls

Remote Control Receiver

Speakers

● Remote control 1

● Dry-cell battery (AAA) 2

● Analog video cable (D-Sub 15 pin) 1

● Digital video cable (DVI 24 pin) 1

● AC power adapter 1

● AC power cord 1

● Stereo audio cable (ϕ 3.5 jack) 1

● USB cable 1

● Audio cable 1

● Jack conversion cable(ϕ 3.5 jack←→RCA pin jack) 1

● Video cable (RCA pin jack) 1

● User's Manual 1

※ Please follow any additional information enclosed in the package.

Parts and Functions

■ Front Panel

OSD MENU   MUTE   VOLUME   CHANNEL   INPUT

EXIT   ◄   ►   −   +

Control	Symbol	Function
Open the Menu Execute	OSD MENU	· Access the OSD menus. · Execute the selected option in OSD menu.
Close (restore) OSD menus Mute the speakers	MUTE EXIT	· Close the OSD menu. · Restore to OSD main menu from sub-menu. · Mute the speakers when OSD menu is not turned on.
Select adjustment item Set value of adjusted item Adjust volume	VOLUME ◄ ►	· Move the highlighted option to the left. · Adjust speaker volume when OSD menu is not opened.
Select adjustment item Select channel	-	· Change the setting (down). · Select TV channel (down).
Select adjustment item Select channel	+	· Change the setting (up). · Select TV channel (up).
Switch input	INPUT	Switch input. Please use remote control to switch to PC or TV screen when PIP is on. 【P2】 (PC D-SUB, PC DVI-D, TV, Video1, Video2)
Power		Power On/Off.

■ Back

Handle

Connector Box
(Underneath the cover)
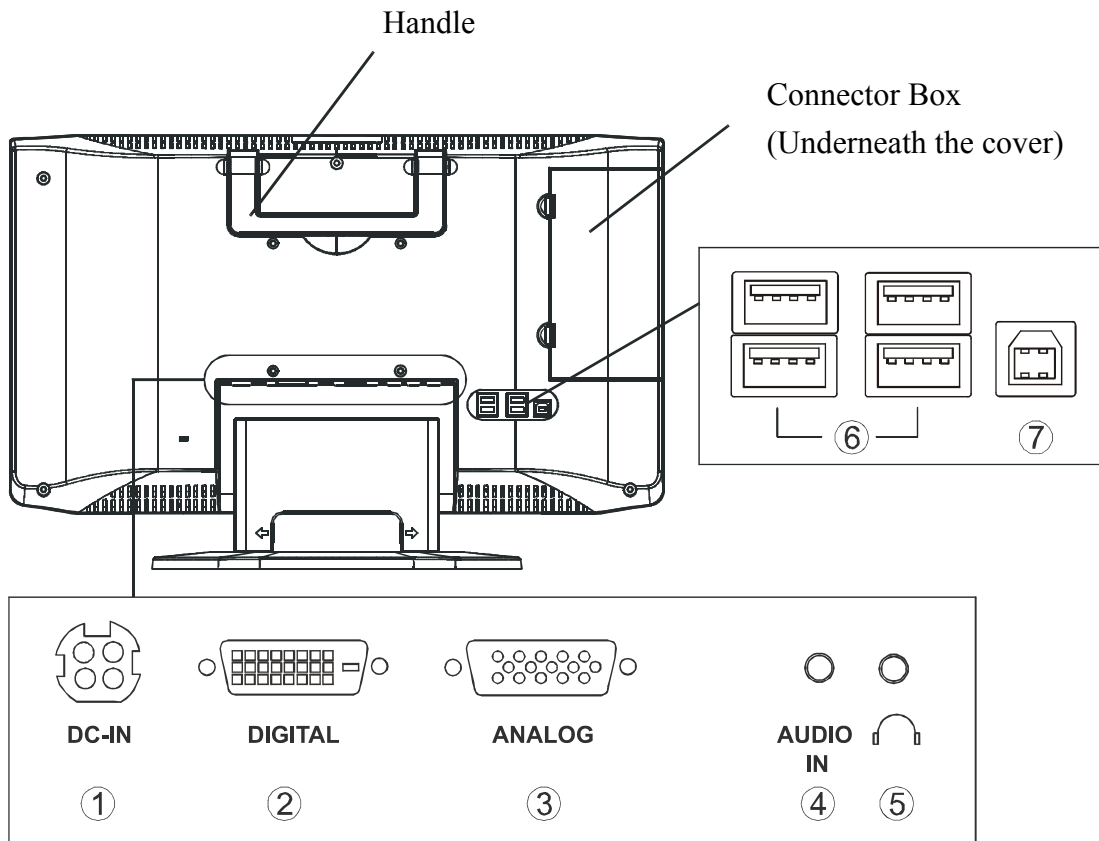
① **DC-IN**

Connect the power cord.

② **DIGITAL**

Connect the digital video cable (DVI 24pin).

③ **ANALOG**

Connect the analog video cable (D-sub15pin).

④ **AUDIO-IN**

Connect PC-Out using the attached audio cable.

⑤ **Earphone**

Connect the earphone.

⑥ **USB Port (USB1.1; Type A)**

Connect the USB equipment (mouse or keyboard).

⑦ **USB Port (USB1.1; Type B)**

Connect with PC using the attached USB cable.

■ Connector Box
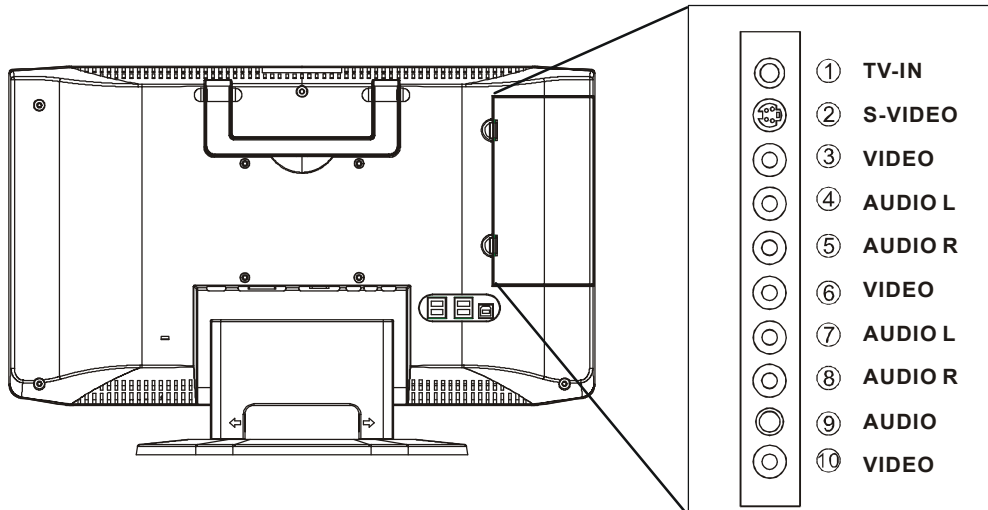
① **TV-IN**

Connect the antenna or cable TV.

② **S-VIDEO (S-Video In)**

Connect the S-VIDEO cable.

③ **VIDEO (Video-In)**

Connect VCR cable.

(May be used as S-VIDEO as well. Use the [VIDEO] button on the remote to switch input).

④ **AUDIO L (Audio-In (Left))**

Connect the stereo audio cable.

⑤ **AUDIO R (Audio-In (Right))**

Connect the stereo audio cable.

⑥ **VIDEO (Video-In)**

Connect the VCR cable.

⑦ **AUDIO L (Audio-In (Left))**

Connect the stereo audio cable.

⑧ **AUDIO R (Audio-In (Right))**

Connect the stereo audio cable.

⑨ **AUDIO (TV Sound Out)**

Connect the attached audio cable.
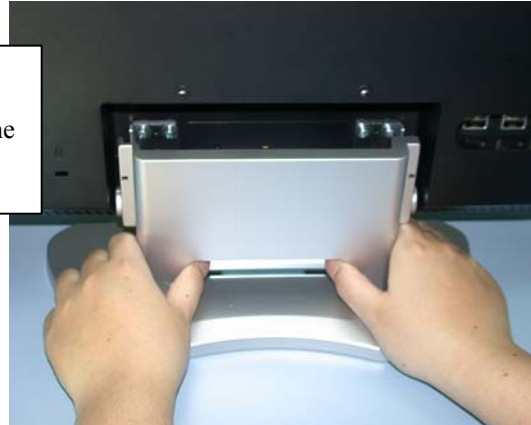
⑩ **VIDEO (TV Image Out)**

Connect the VCR cable.

Connecting to PC

Make sure the power of your PC is turned off before performing the following steps.

1. Remove the hinge cover on the back of LCD.

> Push in the direction of arrow and then pull towards you to remove the cover.

2. Connect the attached LCD cables (analog or digital) to LCD.
   Make sure to use PC-supported cables.

3. Connect the power cord to the LCD.

Watch the stand of LCD when installing the power cord.

Be careful that the sharp edges don't cut your fingers.

Caution! Sharp!

4. Connect one end of AC power cord to AC adapter and the other end to the power
   outlet.

5. Use the attached audio cable to connect the AUDIO-OUT of sound card to
   AUDIO-IN of LCD.

6. Put the hinge cover back.

7. Connect the attached USB cable to PC and LCD.

The connecting to PC is completed. To connect the LCD to TV antenna or VCR, please see the section of "Connecting to TV Antenna and AV System."

8. Turn on the power of LCD and the power of PC.

When the LCD power is on, the power LED light is in green.

※ The power LED light is in orange and the screen does not have image under the following conditions:

· When there is no image from the PC.
· When image signals transmitted are not supported by the LCD.
· When the LCD is in "suspend" mode.

The "suspend" mode may be removed when pressing any key of the keyboard or moving the mouse.

9. During cable connection

Make sure the power of this product is off when connecting the LCD cables, antenna or VCR cables. The screen display will become messed up if the cables are connected under Power On state.

10. When not in use for a long duration

Do not leave the LCD in the state of no-signal (screen pitch dark) for a long period of time. When in standby mode, the upper right corner of the screen will continue to show the display mode (S-VIDEO, VIDEO 1 or VIDEO 2) and "residual image" phenomenon might occur (※). If the LCD is not in use for a long duration, turn off its power.

※ Residual image phenomenon means there is residue of previous image even when other images are displayed.

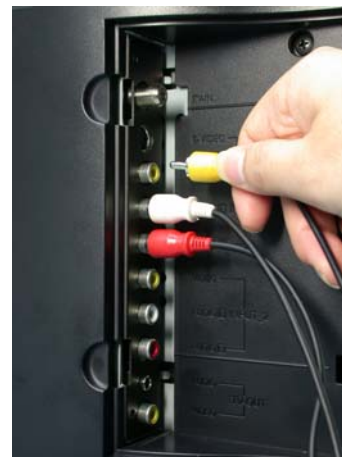## Connecting to TV Antenna / Cable TV and AV System

1. Remove the side cover on the back of LCD.

2. Connect antenna or Cable TV coax wire to TV-IN.

3. Connect the AV equipment (VCR, DVD Player, etc.) to corresponding jacks
   (S-VIDEO, VIDEO, AUDIO, etc.)

4. Put back the side cover.

   The connection to TV antenna / Cable TV or AV system is completed.

About the Product

● This TFT-LCD monitor is made by precision technology. It is common to have black spots (lack of pixels) or luminous spots on the panel. Such condition is not a product defect or failure.

● About interfering stripes on the screen (moire pattern)

If the screen shows parallel adjoining streaks or latticed pattern in 2~3 colors, it is called the moire pattern. It is the result of interference between luminous colors, not a defect. When interfering stripes appear, adjust the image according to the instructions in "When the screen shows interfering stripes/noise" to obtain optimum image quality. 【P21】

● The recommended resolution of this product is 1280×768 pixels. Some graphic cards do not support 1280×768 pixels. In such case, set the resolution at 1024x768 pixels, press the "Full Screen" button on remote to adjust to normal display.

● If the LCD stands still for a long duration, there might be "residual image" phenomenon even when other images are displayed.

To avoid this problem, use the screensaver in the operating system.

If residual image phenomenon has occurred, keeping the screen in white for a long time might correct it.

● About the "smoothing" function

In situation where Full Screen display is set, the image will be magnified when the resolution is less than 1280 ×768 pixels. At this time, the product will automatically fill the voids with neutral colors (smoothing) to allow the display of smooth characters and graphics. As a result, the characters or graphics might look spread out or feathered. It is not a defect.

Also, if the black characters against white background look blurred, adjust the contrast. 【P14 , P15】

Examples

With smoothing   Without smoothing
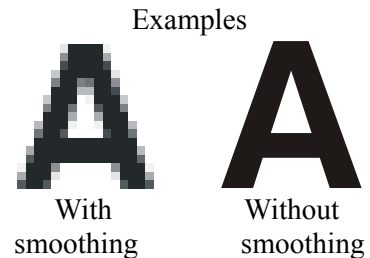
● Power saving

To cut down power consumption, the power saving function will kick in automatically if the computer is not in use for a period of time.

Once the product is in power saving state, the power LED will change to orange color, the image will disappear and there is no sound output. Under the standby mode, power consumed will be reduced to less than 3W.

To reactivate the screen, move the mouse or press any key on the keyboard.

※ Power saving mode is enabled only when it is set in the PC with built-in DMPS(VESA) function.

● About digital connection

Digital connection to some computers, such as Macintosh may result in abnormal display image. In such event, use analog connection.

● About images in TV/VCR mode

Some green noises might appear under the following circumstances. This is not an   image quality problem.

· When TV channel does not have image playing.

· When the VCR tape is being forwarded or rewound.

Note: Viewing the screen in dark environment or for a long period of time might cause eye fatigue. We suggest viewing the screen in properly bright environment and let your eyes rest from time to time.

Image Adjustment

About OSD

The OSD (On Screen Display) control lets you adjust the image settings.

Adjustment can be made using the panel buttons or remote control.

■OSD Main Menu
Press the OSD MENU button (or MENU on the remote). The initial OSD menu opened is as shown on the right. The options are indicated by icons.
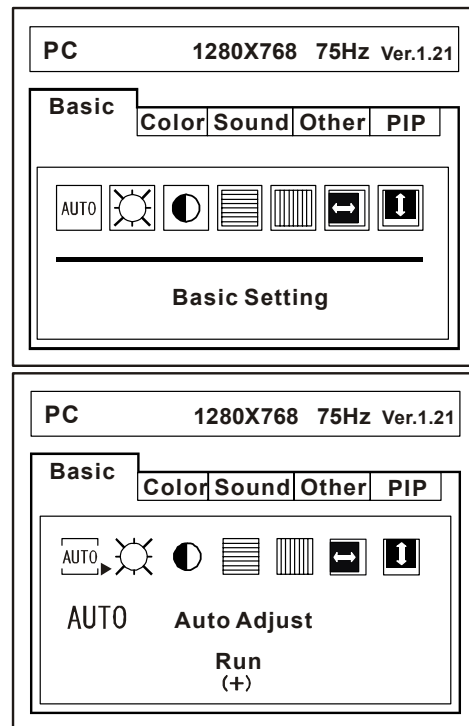Use ◄/► (or ←/→ on the remote) to highlight to desired Main Menu option. Then press the OSD MENU (or MENU on the remote) to open the sub-menu.

■OSD Sub-menu
When pressing OSD MENU (or MENU on the remote) again in OSD Main Menu, the following sub-menu as shown on the right appears.
Use ◄/► (or ←/→ on the remote) to highlight the desired Sub-menu option. Then use the -/+ buttons (or ↓ / ↑ on the remote) to adjust.

How to operate the OSD menu

1. Press the OSD MENU button (or MENU on the remote) to display the Main Menu.
2. Use ◄/► buttons (or ←/→ on the remote) to highlight the desired option. Press OSD MENU button again (or MENU on the remote) to display the selected sub-menu.
3. Use ◄/► buttons (or ←/→ on the remote) to decide the option to be adjusted. Then use -/+ buttons (or ↓ / ↑ on the remote) to change the setting.
4. Press MUTE EXIT (or EXIT on the remote) twice to close the menu window.

■ OSD Functions in PC Mode (Digital)

Menu	Function	Setting Range
Basic menus		
Brightness	Adjust the brightness of image.	0~100
Contrast	Adjust the contrast of image.	0~100
Color		
Color temperature	Adjust to give red or blue tone to white component of the image; it may be done before printing or photo retouch.	User/5700/ 6500/9300/sRGB
Red (*1)	Adjust the red color of image.	0~100
Green (*1)	Adjust the green color of image.	
Blue (*1)	Adjust the blue color of image.	
Sound		
Volume	Adjust speaker volume.	0~100
Treble	Adjust the high frequency audio.	-50~+50
Bass	Adjust the low frequency audio.	-50~+50
Balance	Adjust the balance of left and right sound track.	L~R
Mute	Eliminate the sound.	NO/YES
PC/PIP	Select the PC sound or PIP sound.	PC/PIP
Others		
OSD language (*2)	Select the display language.	Japanese/English
OSD horizontal position	Adjust the display position of OSD window.	0~100
OSD vertical position		
Smoothing	Choose whether to activate the smoothing function.	NO/YES
Zoom	To magnify the image.	NO/YES
Selection of WXGA and XGA (*3)	Used when image display is abnormal during resolution switch. Auto adjust in case of digital input.	Auto
Reset	Return to the factory default settings.	---
PIP		
PIP OFF/ON	Select the OFF/ON of PIP window.	OFF/ON
PIP size	Select the size of PIP window.	0~100
PIP horizontal position	Change the PIP window position.	0~100
PIP vertical position		
PIP source	Select the PIP video source.	TV/SVideo/Video1/Video2

*1 Settable only when "User" is selected under "Color Temperature."

*2 The language of OS or applications will not change.

*3 Digital input will activate the Auto Mode that will not allow the manual selection of WXGA or XGA.

■ On Screen Display (OSD) Functions in PC Mode (Analog)

Menu	Function	Setting Range
Basic menus		
Auto adjust	Automatically adjust the image position, phase and clock.	---
Brightness	Adjust the brightness of image.	0~100
Contrast	Adjust the contrast of image.	0~100
Phase*(1)	Adjust the image when there is noise or fuzzy characters.	0~100
Clock (*1)	Adjust the image when moire pattern appears.	0~100
Horizontal position	Adjust the image position.	0~100
Vertical position		
Color		
Color temperature	Adjust to give red or blue tone to white component of the image; it may be done before printing or photo retouch.	User/5700/ 6500/9300/sRGB
Red (*2)	Adjust the red color of image.	
Green (*2)	Adjust the green color of image.	0~100
Blue (*2)	Adjust the blue color of image.	
Sound		
Volume	Adjust speaker volume.	0~100
Treble	Adjust the high frequency audio.	-50~+50
Bass	Adjust the low frequency audio.	-50~+50
Balance	Adjust the balance of left and right sound track.	L~R
Mute	Eliminate the sound.	NO/YES
PC/PIP	Select the PC sound or PIP sound.	PC/PIP
Others		
OSD language (*3)	Select the display language.	Japanese/English
OSD horizontal position	Adjust the display position of OSD window.	0~100
OSD vertical position		
Smoothing	Choose whether to activate the smoothing function.	NO/YES
Zoom	To magnify the image.	NO/YES
Selection of WXGA and XGA	Used when image display is abnormal during resolution switch. Auto adjust in case of digital input.	Auto
Reset	Return to the factory default settings.	---
PIP		
PIP OFF/ON	Select the OFF/ON of PIP window.	OFF/ON
PIP size	Select the size of PIP window.	0~100
PIP horizontal position	Change the PIP window position.	0~100
PIP vertical position		
PIP source	Select the PIP video source.	TV/SVideo/Video1/Video2

*1 Use manual adjustment only when auto adjust does not bring
   satisfactory results.

*2 Settable only when "User" is selected under "Color Temperature."

*3 The language of OS or applications will not change.

About the 「sRGB」 option under color temperature
sRGB is a mode to reproduce the standard color specifications in different computers or monitors. The color displayed in the PC monitor is relative color. When monitor is changed, the image color changes as well. For example, the "yellow-green" might look like "yellow", "light blue" or "green" due to the settings of the monitor. To address this problem, this LCD has built-in sRGB mode to display the color close to that of the actual image.

■ On Screen Display (OSD) Functions in TV Mode (VCR)

Menu	Function	Setting Range
Display settings		
Brightness	Adjust the brightness of screen.	0~100
Color	Adjust the color of screen.	-50~+50
Contrast	Adjust the contrast of screen.	0~100
Sharpness	Adjust when the profile of images are fuzzy.	0~100
Format	Aspect Ratios	1:1 4:3 Full (16:9) Stretch
Auto Program (*1)	Set the channels automatically	---
Tuner Source	Antenna / CATV Switching	AIR / Cable
Initialize	Return to the factory default settings.	---
Sound		
Volume	Adjust the speaker volume.	0~100
Treble	Adjust the high frequency audio.	-50~+50
Bass	Adjust the low frequency audio.	-50~+50
Balance	Adjust the balance of left and right sound tracks.	L~R
Mute	Eliminate the sound.	NO/YES
MTS (*1)	Switch sound.	MONO/Stereo/SAP

*1 Programmable only on TV screen.

Auto-Adjust (in case of analog connection only)

This product has built-in auto adjust function to obtain the best image display.
If the LCD has analog connection, perform auto adjust first.

　※ No auto adjust is necessary in case of digital connection.

1. Turn on the power in the sequence of peripherals (including this product)
    → computer.
2. Press the OSD MENU button.
    OSD Main Menu is displayed.
3. Use ◄/► button to select the desired "basic setting", then press OSD
MENU again.
4. Use ◄/► to select AUTO, then press + button.
    The product will carry out auto adjust.
    ※ In case of Macintosh, boot the operating system and perform steps 2 ~
       4 above after the screen display becomes still.
    ※ The auto adjust will take a few seconds, during which you won't be able
       to perform OSD function. If the effect of auto adjust is not satisfactory,
       carry out manual adjustment.

TV Viewing	This product has built-in TV channel selector. You can watch TV by connecting the antenna to the LCD.

Settings for TV Viewing

To watch TV, set the channels by performing the following steps:

1. Make sure antenna or cable TV is connected to TV-IN and then turn on the LCD.
2. Press INPUT (or TV on the remote) to switch to TV mode.
3. Press OSD MENU button (or MENU on the remote) to display OSD Main Menu.
4. Use ◄/► buttons (or ←/→ on the remote) to highlight the "Display Settings" option, then press OSD MENU (or MENU on the remote) again.
5. Use ◄/► buttons (or ←/→ on the remote) to select "Auto Program" option, then press + (or ↑ on the remote).

   TV channels are set automatically.

Change Volume

1. Press ◄ button (or ← on the remote) to display the volume setting menu.
2. Use -/+ buttons (or ↓ / ↑ on the remote) to adjust volume.

Change Channel

Use -/+ (or ↑ ↓ on the remote) to change channels.

Use the numeric numbers 0-9 & 100 + to change to specific channels

For channels 1-9

1. Push any number 1-9.

For channels 10-99

1. Push any two numbers 0-9.

For channels 100+

1. Push "100+" followed by two numbers 0-9.

Displaying TV or VCR Images on PC Screen

You can use PIP (Picture In Picture) function to show TV or VCR images on PC screen.

Activate the PIP Function

Take the following steps to activate the PIP function:

1. Press INPUT button (or TV on the remote) to switch to TV mode.
2. Press OSD MENU button (or MENU on the remote) to display OSD Main Menu.
3. Use ◄/► buttons (or ←/→ on the remote) to select "PIP" option. Then press OSD MENU button (or MENU on the remote) again.
4. Use ◄/► button (or ←/→ on the remote) to select [Turn picture ON/OFF], then press + button (or ↑ on the remote).

   A small picture is displayed on the PC screen.

Change the PIP settings
1. Press OSD MENU (or MENU on the remote) to display OSD Main Menu.
2. Use◄/► button (or ←/→ on the remote) to select PIP option, then press OSD MENU button (or MENU on the remote).
3. Use ◄/► button (or ←/→ on the remote) to highlight the option to be changed, then use -/+ buttons (or ↓ / ↑ on the remote) to change the setting.

Product Care

Precaution   The panel of this product has a special coating. Use cleaning cloth when cleaning the panel surface. Use of neutral detergent or detergent bought on the market might cause the peeling of coating.
■ Before cleaning, disconnect the power plug from the AC outlet.
■ Perform cleaning on a stable desktop or flat floor.

Troubleshooting	Refer to the following section if you experience trouble with the product. If the problem persists, please consult our service center.

Computer Screen Problems

No image appears on screen

Cause ①	It might be poor contact between the LCD cable and LCD or graphic card.
Cause ②	It might be poor contact of graphic card installed in the computer.
Cause ③	It might be poor contact of memory installed in the computer.
Solution ①~③	Turn off the computer power, then reinsert the graphic card, LCD cable and memory.

Do not plug or unplug the LCD cable or power cord when the power is ON. Doing so might damage the product. |
Cause④	It could be that screen brightness is set at lowest value.
Solution④	Adjust screen brightness in Brightness menu. 【P.14, P.15】
Cause⑤	It could be that the power is off or the screen in Suspend mode.
Solution⑤	If the power LED is extinguished, the LCD is off. If such case, just press the power button.

If the power LED flashes green, the LCD is in Suspend mode. In such case, press any key of the keyboard or move the mouse to get out of Suspend mode. |
| Cause⑥ | Resolution not supported by the product is used. |
| Solution⑥ | During display settings, please do not select the vertical frequency (Refresh Rate) the product does not support. 【P27 Compatible Modes】

In case you select the frequency outside the LCD range, the screen will not have display or have abnormal display (crisscrossing or divided image). In such case, perform the following steps to select the correct frequency:

<Windows 98/95/Me/Xp>

Boot the Windows to safe mode and reselect the compatible frequency.

<Windows 2000/NT>

Boot the Windows to VGA mode and reselect the compatible frequency.

<Windows 3.1>

Execute in SET.EXE in DOS, select VGA mode in driver, then reboot the Windows and reselect the compatible frequency.

※ For compatible vertical refresh rate, refer to [P27 Compatible Modes].

Some graphic cards installed in the computer (built-in card included) allow the selection of frequency outside the LCD range (e.g. 90Hz, 100Hz). But make sure to select a frequency that this product supports. 【P27】 |

Tool bars are not displayed in Windows

Cause   Bottom of image is outside the display field in Virtual Screen mode.

Solution ①   Move the cursor to the bottom of the screen to roll up whole screen for display of tool bars.

Solution ②   Lower the resolution setting by the following steps when not using the Virtual Screen mode:

      1. Click the right button of mouse on desktop screen and select [Properties (R)] in the menu displayed.

      2. In the [Display Properties] dialog, click [Settings] (in case of Windows95/NT4.0, click [Display Properties])

      3. Drag the slide bar of "Screen Area" ("Desktop Area" in case of Windows 95/NT4.0) to lower the resolution setting.

The screen shows Interfering stripes (moire pattern)/noise

If the screen shows parallel adjoining streaks or latticed pattern in 2~3 colors,

it is called the moire pattern.

Cause   [Phase] and [clock] are not adjusted correctly.

Solution ①   For Windows (except 3.11 version) user, use the attached program to enter the screen for display adjustment.
Adjust the setting by the following steps:
※ Carry out the steps below under compatible resolution and refresh rate.

      1. Press OSD MENU button.
      2. Use ◄/► buttons to select [Basic Setting] option, then press OSD MENU again.
      3. Use ◄/► buttons to highlight [AUTO], then press the + button.
      The display settings are adjusted automatically. The auto adjust will take a few seconds, during which you won't be able to perform other OSD function.
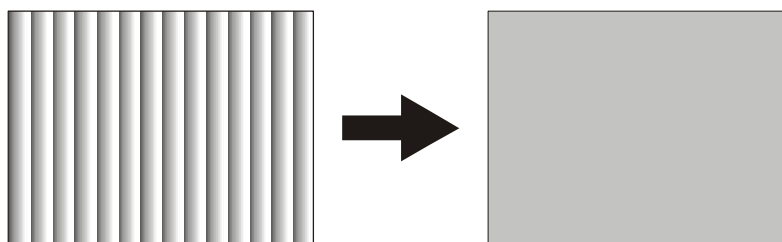
(Normal display)

If the moire pattern persists after auto adjust, continue on with the following steps:

1. Press OSD MENU button.

   The OSD Main Menu appears.

2. Use ◄/► buttons to select [Basic Settings], then press OSD MENU again.

3. Use◄/► buttons to select [Clock], then use – or + buttons to change the setting for best display.

 Adjust to ripple-free state.

(Normal display)
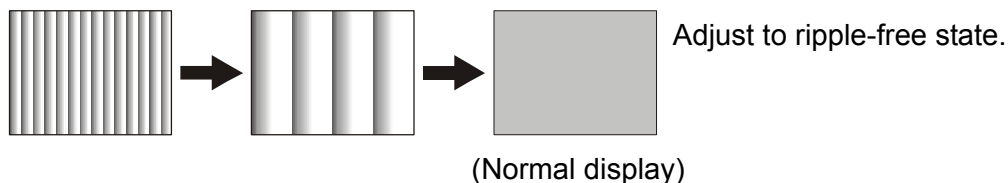
4. Use ◄/► buttons to select [Phase], then use – or + buttons to change the setting for best display.

 Adjust to noise-free state.

(Normal display)
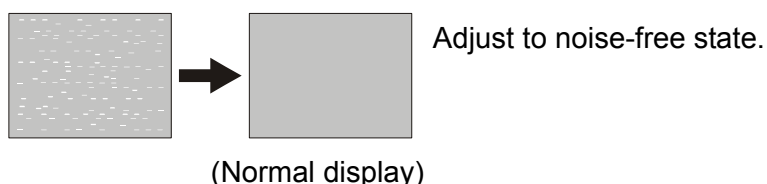
5. Press MUTE EXIT button twice.

   Exit the menu after saving the new settings.

Solution ② When desktop pattern has interfering stripes, follow the instructions of respective operating system to change the desktop pattern.

The screen is noise-free after adjustment, but becomes abnormal when executing an application program (especially during video playing)

Cause   In display adjustment, sometimes the set values for removing the noise are located at two different points, while the selection of either value would have removed the noise. Because of it, noise might persist on the screen of application program after adjustment.

In such case, you need to re-select the set value for removing the noise.

Solution Enter the [Phase] option again to remove noise. It will be easier to reset the screen to factory default state first.

※ To restore the factory default settings, select [Others] in the menu option, then press OSD MENU. Select [Reset] in the sub-menu option, then press the + button. Please note that when the factory default settings are restored, other options including size and positions will return to the default state. In such case, reset the other items if necessary.

The result is not satisfactory after Auto Adjust.

Cause   Improper screen display during adjustment.

Solution   The result of adjustment is influenced by the screen display at the time of adjustment.
The best display is the screen with a pattern in 1-dot black and white lattice.
Please note that in DOS screen or application screen with more black component, the result of auto adjust is usually not satisfactory.

Please do note that sometimes perfect result may not be obtained after all the adjustments due to the state of image signals (divergent signals or presence of noise).

The image seems extends towards the right

Cause①   The resolution did not reach 1280×768 pixels (WXGA).

Solution①   Set the resolution at 1280x768 pixels (WXGA).
But some graphic cards do not support 1280x768 pixels (WXGA). In such case, set the resolution at 1024x768 pixels (XGA), press the "Full Screen" button on remote and then adjust to normal display.

Cause②   The product fails to identify resolution correctly.

Solution②   Refer to P14 (or P15) to manually set the [SXGA and XGA] under [Others] option in OSD menu to [SXGA] or [XGA].

Product power cannot be turned off

Solution   Unplug the AC adapter from the power outlet and replug it after a while.

TV (VCR) Problem

Can't play the TV

Cause①   Incorrect antenna connection.

Solution①   Connect the antenna correctly.

Cause②   Channels not set correctly.

Solution②   Refer to [Settings for TV Viewing](P18) to set channels.

Can't hear the sound

Cause①   Incorrect audio cable connection.

Solution①   Connect the audio cable correctly.

Cause②   Volume is set at the lowest value.

Solution②   Refer to [Change the Volume] (P18) for volume adjustment.

PIP(Picture In Picture) Problem

No PIP image

Cause①   Incorrect PIP setting for display image (TV, S-Video, Video1, Video2).

Solution①   Perform the following steps to change the specified image:
        1. Refer to [Activate PIP Function] (P19) for display of PIP screen.
        2. Press OSD MENU button (or MENU on the remote) to display OSD
            Main Menu.
        3. Use ◄/► button (or ←/→ on the remote) to select [PIP] option, then
            press OSD MENU button (or MENU on the remote) again.
        4. Use ◄/► buttons (or ←/→ on the remote) to select [Set PIP Screen],
            then press -/+ buttons (or ↓ / ↑ on the remote) to select the desired
            image.

Cause②   Incorrect channel setting.

Solution②   Refer to [Settings for TV Viewing](P18) to set channels.

Can't hear any sound

Cause①   Incorrect installation of audio cable.

Solution①   Install the audio cable correctly.

Cause②   Did not select PIP sound (PC sound was selected).

Solution②   Select [PIP] in [PC/PIP] in OSD menu option [Sound].

About OSD Function
OSD means On Screen Display.
It provides the function of showing and adjusting the selected options on the screen.
In OSD menu, you can adjust the display size, position, brightness and contrast.

Specifications

Panel	17" wide panel color TFT-LCD
Resolution (max.)	W-XGA (1280×768 pixels)
Display area	369.6(H) ×221.8(V)mm
Dot pitch	0.289(H) ×0.289(V)mm
Displayable colors (max.)	16.19 million colors (simulated full color)
Luminance (average)	450cd/m^2
Contrast ratio (average)	600：1
Viewing angle (CR≧ 10)	U/D: 85°/85°　L/R: 85°/85°
Input signal	Analog RGB, digital, S-Video, composite input
Input connectors	D-sub 15pin(mini, 3 rows), DVI 24pin, MinDIN4pin, RCA pin jack
DDC	DDC 1/28
Support frequency	See next page [Compatibility Modes]
USB interface	USB Revision1.1 standard
USB connector	Type A×4, Type B×1
Power	100V AC±10% 50/60Hz
Speaker	Output 2.7W(max.) ×2
Power consumption (max.)	55W(in saving mode: under 3W)
Dimensions	513(W) ×340(H) ×159(D)mm
Weight	6.8kg
Operating condition	Temperature: 10~35℃　Humidity: No dews

※ To connect this LCD to devices not equipped with D-sub15pin (3 rows) analog

RGB connector, please use adapter available on the market.

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Features of liquid crystal display · Deterioration of color purity: Long-term use of highlight display or bright image might cause deterioration of color purity. If it happens, please adjust the luminance. · Residual image: The screen display might have "residual image phenomenon" if it is in standby mode for a long duration even when other images are displayed. Use screen saver to avoid longstanding standby mode.

Compatible Modes
The LCD supports the following display modes:

Display Mode	Resolution	Pixel Clock (MHz)	H Frequency (kHz)	V Frequency (kHz)
VGA	640×350	25.2	31.5	70
VBA(PC-98)	640×400	25.2	31.5	70
VGA	640×480	25.2	31.5	60
VGA	720×400	28.3	31.5	70
VESA VGA	640×480	31.5	37.9	72
VESA VGA	640×480	31.5	37.5	75
VESA SVGA	800×600	36.0	35.2	56
VESA SVGA	800×600	40.0	37.9	60
VESA SVGA	800×600	50.0	48.1	72
VESA SVGA	800×600	49.5	46.9	75
VESA XGA	1024×768	65.0	48.4	60
VESA XGA	1024×768	75.0	56.5	70
VESA XGA	1024×768	78.8	60.0	75
XGA	1024×768	78.4	57.7	72
VESA	1152×864	108.0	67.5	75
720p	1280×720	74.3	45.0	60
Wide	1280×768	81.0	48.0	60
Wide	1280×768	103.0	60.2	75
VESA	1280×960	108.0	60.0	60
VESA XGA	1280×1024	108.0	63.9	60
VESA XGA	1280×1024	124.9	74.4	70
VESA XGA	1280×1024	135.0	79.9	75
SXGA	1280×1024	134.6	77.9	72
MAC13" MODE	640×480	30.2	35.0	67
MAC16" MODE	832×624	57.3	49.7	75
MAC19" MODE	1024×768	80.0	60.2	75
MAC21" MODE	1152×780	100.0	68.7	75

※ The recommended resolution is 1280×768 pixels. If the graphic card does not support 1280×768, we suggest 1024×768.

※ The recommended vertical refresh rate (frequency) is 60Hz.

※ Signals outside the aforementioned range are sometimes displayable.

※ Adjustment is still necessary to obtain the best image display when the recommended resolution is used.

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This manual leaves out symbols such as TW, ®, and ©.
■ The specifications, design and other content of this manual are subject to change for improvement without prior notice. Some descriptions in this manual might differ slightly from the product you have purchased.
■ This manual is prepared with the best intention and efforts. If there is any question, error or omission, please contact your local dealer or our service center.
■ This product is meant to be used as an office apparatus in office or home setting. We will not be held liable for any damages incurred in the use of this product other than its intended applications.
　· Do not use this product in health care system or system having direct or indirect bearing on human body that has higher safety requirement.
　· When used in machinery or computing systems with higher reliability requirements, make sure the safety design for the system and remedies in case of system failure is in place ahead of time.
■ Use this product as instructed. Do not use this product in any way contrary to the important points as provided in the manual.
■ In case of product failure, we guarantee repair under certain conditions, excluding the loss or damage of stored data. If this product is connected to any memory device, please observe the points to note stated in the manual. Always make a backup copy of important data. We will not be held liable for any damage incurred from the loss or destruction of stored data resulting from user's failure to observe the instructions in this manual or user's negligence in keeping backup copy.
■ Except in the event of intentional act or gross negligence on the part of our company, our liability for non-performance of debt or any illicit act shall be limited to the purchase price of this product.
■ In case there is latent defect with the product, we will repair the defect at no cost or substitute the product with the same or equivalent product that is defect-free without incurring any liability for the defect.

This device is a Class II information device that may be used in residential area or neighboring area and in compliance with the VCCI, the EMC standard in Japan.
The device might experience reception interference if it is used near locations with broadcasting or TV signal receivers. Use this product correctly according to instructions.
This product complies with Class II VCCI specifications. We do not guarantee its performance if it is used incorrectly. Beware of the following points in the use of this product:
· Use the attached power cord.
· Use the attached LCD cables.
· Do not alter the interior or attached cables of this device.

The test results show that this device meets the limits set for Class B digital machine provided in Part 15 of FCC rules. Those limits are set to protect residential areas from the devices with harmful emission. This device will produce, use and radiate radio frequency energy. In addition, failure to follow the user's manual to install or use this device might produce harmful interference with radio communication. Notwithstanding the foregoing, it does not guarantee that this type of harmful interference does not occur in some special installation. The interference caused by this device to the reception of radio or television signals may be verified by turning it on and off. If interference does occur, we suggest the user to take one or more of the following remedies to try solve the problem:
· Change the antenna direction or relocate it.
· Increase the distance between this device and the receiver.
· Connect the device to a power outlet different from the one used by the receiver.
· Ask for the suggestion of radio/TV technician with dealer experience.

Planar Systems, Inc