

User's Manual

TFT LCD TV

KLT151

KLT201

Vernex

Safety Instructions



Before connecting the AC power cord to the DC adapter outlet, make sure the voltage designation of the DC adapter corresponds to the local electrical supply.

Never insert anything metallic into the cabinet openings of the Liquid Crystal Display LCD TV: doing so may create the danger of electric shock.

To avoid electric shock, never touch the inside of the LCD TV. Only a qualified technician should open the case of the LCD TV.

Never use your LCD TV if the power cord has been damaged. Do not allow anything to rest on the power cord, and keep the cord away from areas where people can trip over it.

Be sure to hold the plug, not the cord, when disconnecting the LCD TV from an electric socket.

Openings in the LCD TV cabinet are provided for ventilation. To prevent overheating, these openings should not be blocked or covered. Also, avoid using the LCD TV on a bed, sofa, rug, or other soft surface. Doing so may block the ventilation openings in the bottom of the cabinet. If you put the LCD TV in a bookcase or some other enclosed space, be sure to provide adequate ventilation. Put your LCD TV in a location with low humidity and a minimum of dust.

Do not expose the LCD TV to rain or use it near water (in kitchen, near swimming pool, etc.). If the LCD TV accidentally gets wet, unplug it and contact an authorized dealer immediately. You can clean the LCD TV with a damp cloth when necessary, but be sure to unplug the LCD TV first.

Place the LCD TV on a solid surface and treat it carefully.

The screen is made of thin glass with a plastic front surface and be damaged if dropped, hit or scratched.

Do not clean the front panel with keton-type materials (e.g., acetone), ethyl alcohol, toluene, ethylacid, methyl, or chloride - these may damage the panel.

Locate your LCD TV near an easily accessible AC outlet.

Regulatory Information

European Notice

products with the CE Marking comply with both the EMC Directive (89/336/EEC),(93/68/ECC) and the Low Voltage Directive(72/23/ECC) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms:

- EN 60950 / All: 1997
- EN 55 022 Class B: 1998
- EN 55 013:1990 + A12: 1994 + A13: 1996
- EN 61 000-3-2: 1995 + A1: 1998 + A2: 1998
- EN 61 000-3-3: 1995
- EN 50 082-1: 1992
(EN 61000-4-2: 1995 + A1: 1998, IEC 801-3: 1984, EN 61000-4-4: 1995
- EN 55 020: 1994 + All: 1996

FCC Information

User Instructions

The Federal Communications Radio Frequency Interference Statement includes the following warning:

NOTE : This equipment has been tested and found to comply with limits for a Class B digital devices, 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 communication. 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 receptions, which can be determined by turning
- the equipment off and on, the user is encouraged to try to correct the interference by one 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 of a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.

User Information

Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

If necessary, consult your dealer or an experienced radio/TV technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington,DC 20402, Stock Number 004-000-00345-4.

Warning

User must use shielded signal interface cables to maintain FCC compliance for the product.

Declaration of conformity for products Marked with FCC Logo

This device complies with Part 15 of 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

Regulatory Information

interference received, including interference that may cause undesired operation.

The party responsible for product compliance:

NeoValley Co., Ltd

2nd Fl. Samsung Bldg. 251-6, Yangjae-dong, Seocho-gu, Seoul, Korea

Tel) 82-2-3461-2818 Fax) 82-2-3461-2819

Homepage) <http://www.neovalley.com>

Provided with this monitor is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal to or exceeds the monitor voltage rating.

For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type(parallel blades) plug cap. For 240 Volt applications use only UL Listed Detachable power supply cord with NEMA configuration 6-15P type(Tandem blades) plug cap.

General safety precautions

This Monitor has been engineered and manufactured to assure your safety.

You can prevent serious electrical shock and other hazards by keeping in mind the following:



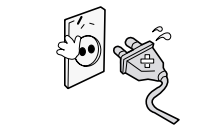
Do not place anything heavy, wet or magnetic on the monitor or the power cord. Never cover the ventilation openings with any material and never touch them with metallic or inflammable materials.



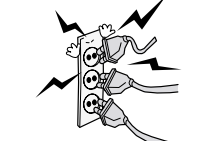
Avoid operating the monitor in extreme heat, humidity or areas affected by dust.

● Temperature : 5~35°C

● Humidity : 30~80RH



Be sure to turn the monitor off before plugging the power cord into the socket. Make sure that the power cord and the other cords are securely and correctly connected.



Overloaded AC outlets and extension cords are dangerous, as are frayed power cords and broken plugs, which may cause electric shock or fire. Call your service technician for replacement.



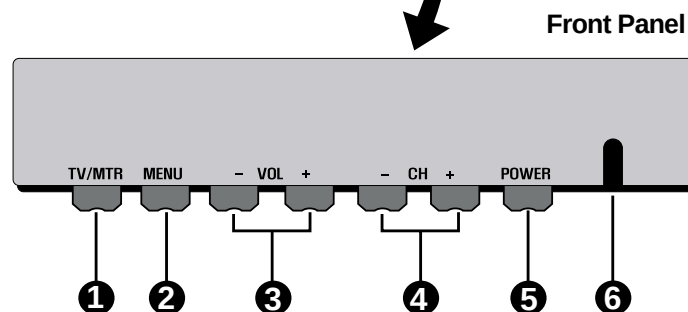
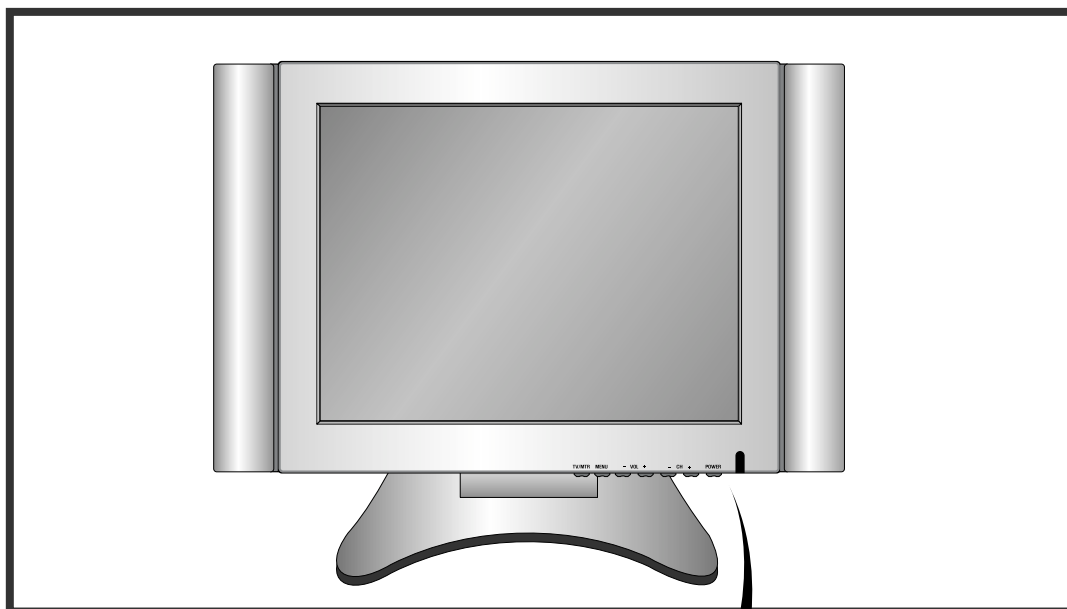
Do not use sharp tools such as a pin or a pencil near the monitor, as they may scratch the LCD surface.



Do not use a solvent, such as benzene, to clean the monitor, as it will damage the LCD surface.

Front Panel

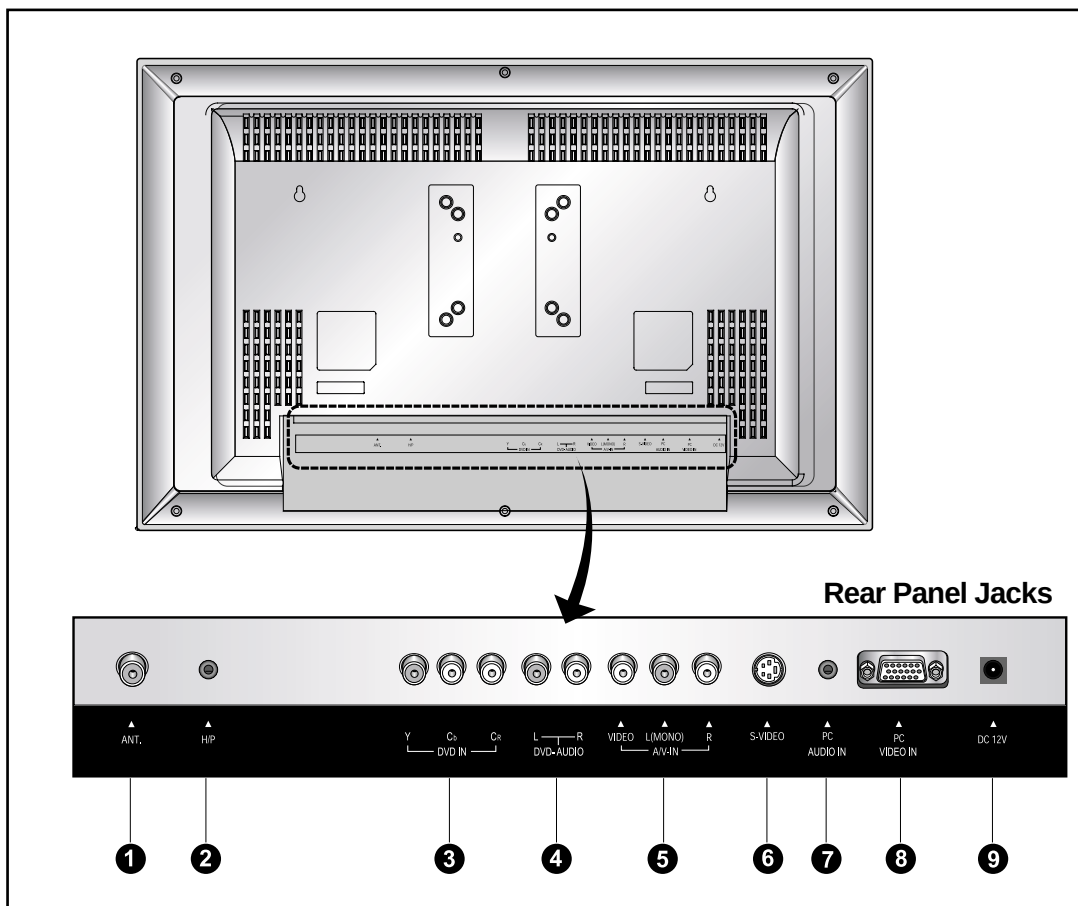
◆ TFT LCD TV 20.1"(51cm)



- ① TV/MTR(MODE)** Displays a menu of the available input sources. (TV, Monitor).
- ② MENU** Display the main on-screen menu. Exit from sub-menu.
- ③ - VOL +** Press the increase or decrease the volume. Also used to increase or rec the value of a menu option.
- ④ - CH +** Press CH or CH to change channels. Also used to highlight selections on the on-screen menus.
- ⑤ POWER** Turns ON/OFF the LCD TV/Monitor.
- ⑥ LED** Light up when you turn the power off.

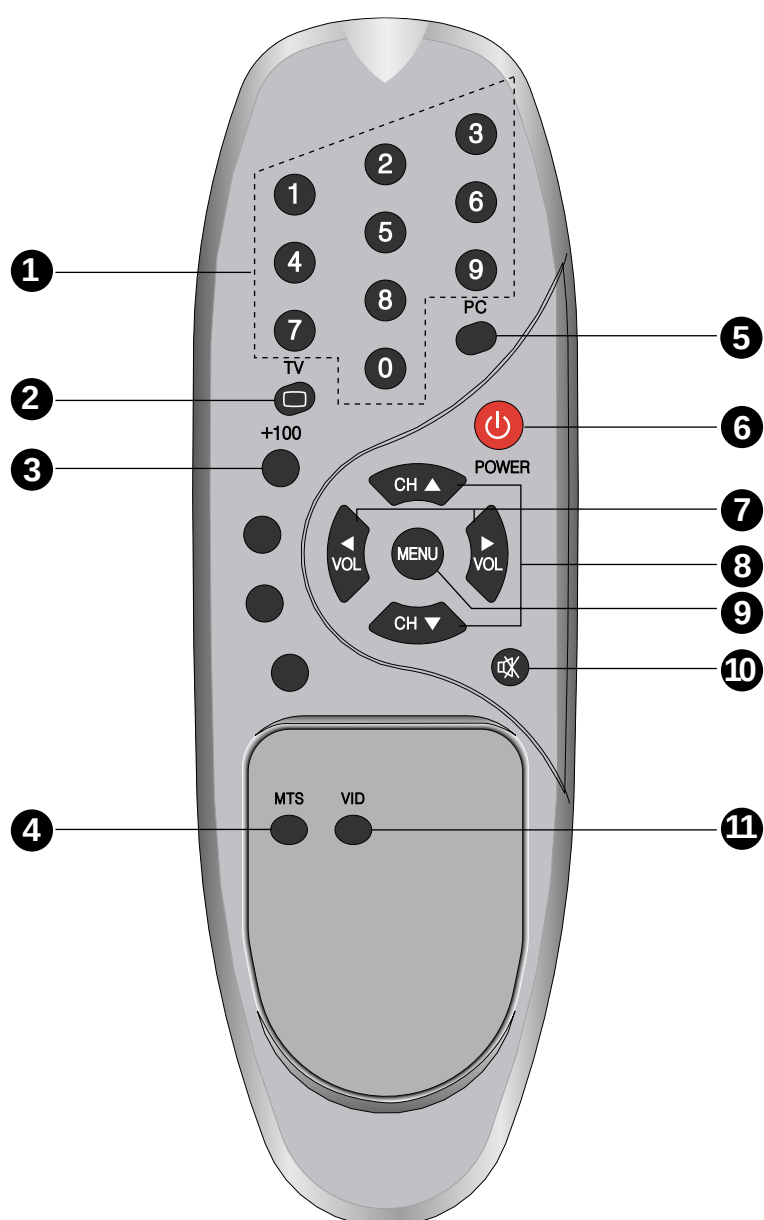
Rear Panel

◆ TFT LCD TV 20.1"(51cm)



- | | | |
|---|---|---|
| ① | VHF/UHF ANTENNA JACK | Connect to an antenna or a cable TV system. |
| ② | HEAD PHONE JACK | |
| ③ | DVD INPUT (COMPONENT; Y, P_b, P_r) | |
| ④ | DVD AUDIO | Video signals from a DVD player. |
| ⑤ | AUDIO INPUTS(for VIDEO/S-VIDEO mode) | Audio signals from DVD player when using the component video input jacks. |
| ⑥ | S-VIDEO IN | Audio signals from VCR or similar device. |
| ⑦ | PC AUDIO INPUT | S-Video signal from an S-VHS VCR or Laserdisc player. |
| ⑧ | PC VIDEO INPUT | Connects to the sound-output port of a personal computer. |
| ⑨ | POWER JACK | Used to connect a video signal from a personal computer. |
| | | To input DC power from power outlet. |

Remote Control Unit



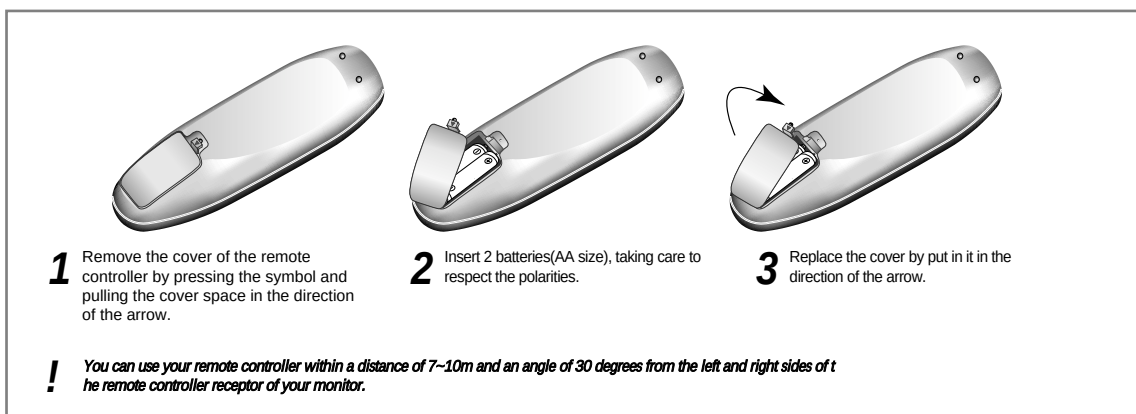
Remote Control Unit

- | | |
|--|---|
| <p>1 Numeric buttons
Direct channel select.
Direct page select during teletext display(option)</p> <p>2 TV
Select TV signal.</p> <p>3 (+100)
Press to select channels over 100 or one/two digit channel selection.
Select hidden content during teletext display (Option)</p> <p>4 MTS
Press to choose stereo, dual or mono.</p> <p>5 PC
Select PC signal.</p> <p>6 POWER
Turns the TV On and Off.</p> | <p>7 VOL ◀, ▶
Press the increase or decrease the volume.
Also used to make selections on the on-screen menus.</p> <p>8 CH ▲, ▼
Press CH ▲ or CH ▼ to change channels.
Also used to highlight selections on the on-screen menus.</p> <p>9 MENU
Displays 'On Screen Menu.</p> <p>10 MUTE
Press to temporarily cut of the sound.</p> <p>11 VID
Press to display all of the available video sources (i.e., Video, S-video PC and Antenna).</p> |
|--|---|

Inserting the batteries in the remote controller

You must insert or replace the batteries in the remote controller when you:

- Purchase the set.
- Find that the remote controller is no longer operating correctly.



Menu Tree

INDEX

PICTURE

Contrast
 Brightness
 Sharpness (TV mode)
 Color (TV mode)
 Tint (TV NTSC model)

SOUND (Option)

Treble
 Bass
 Balance
 MTS (TV NTSC model)

GEOMETRY (PC mode)

H.Position
 V.Position
 Auto Position

FUNCTION (PC mode)

Tracking | Auto Tracking
 | Clock
 | Phase

Information
 Tuning (Deactive)

FUNCTION (NTSC model)

Tracking (Deactive)
 Information
 Tuning | AIR/CATV
 | Auto Tuning
 | Manual Tuning
 Caption | Caption : Off
 | Mode
 | Channel
 | Field
 V-Chip | V-Chip Lock : On
 | TV Guide Line
 | MPAA Rating
 | Change PIN
 Language

Connecting to watch TV , VCR or DVD

Connecting the Aerial or Cable Television Network

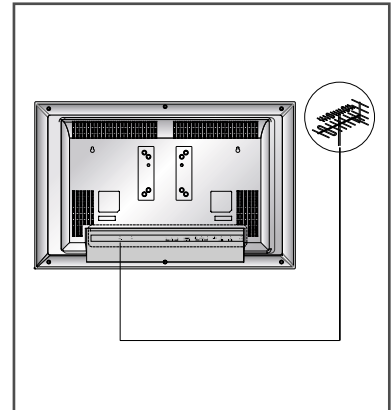
To view television channels correctly, a signal must be received by the set from one of following sources :

An outdoor aerial

An indoor aerial (not recommendable)

A cable television network

- 1** In the first three cases, connect the aerial or network input cable to the 75 ohm coaxial socket on the rear of the TFT LCD TV.
- 2** Press the TV button on the remote control.



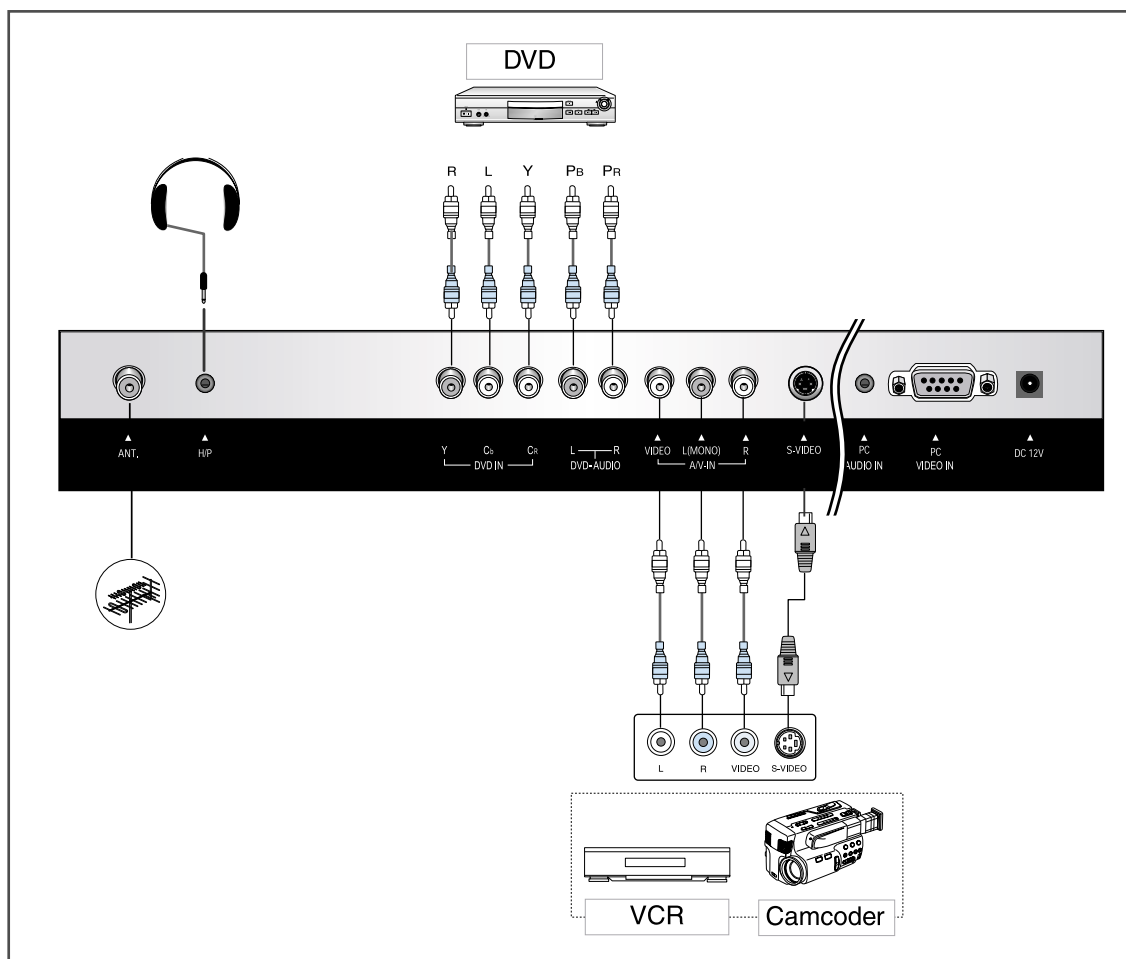
Connecting the VCR, DVD or Other external devices

- 1** Connect video and audio cable according to the shape and color of the video / audio cable.
When an external devices is in MONO, the audio connection cable can be connected to either the left and S.MODE/MTS should be set MONO.
- 2** For optimal visual image, use S-VIDEO connector instead of video (yellow) connector.

Connecting to watch TV , VCR or DVD

Connecting a DVD Player (Connecting to Y, P_b, P_r)

- 1 Connect a set of audio cables between the component AUDIO IN jacks on the TFT LCD TV and the AUDIO OUT jacks on the DVD Player.
- 2 Connect video cables between the Y, P_b and P_r inputs on the TFT LCD TV and Y, P_b and P_r outputs on the DVD Player.
(Note : For an explanation of Component video, see your DVD Player's owner's manual.)



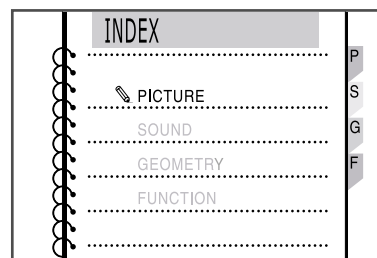
Changing the Picture Standard

You can select the type of picture which best corresponds to your viewing requirements.

The following picture effects are available in the order given :

Custom, Standard, Dynamic, Movie, Mild.

- 1 Press the **MENU** button.
Result : The **INDEX** menu is displayed.
- 2 Press the **VOL◀** or **VOL▶** button.
Result : The “Picture” menu is displayed.
- 3 Select to satisfy your preference by pressing the **VOL◀** or **VOL▶** button.
- 4 When you have been finished, press the **MENU** button repeatedly to return to normal viewing.

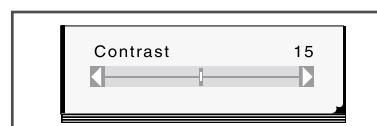
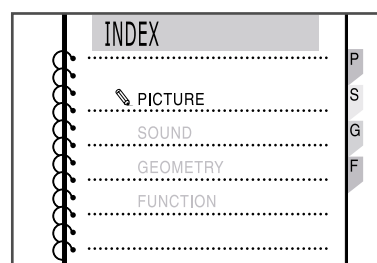


Adjusting the Picture settings

Your TV have several settings which allow you to control picture quality:

Contrast , Brightness, Sharpness, Color, Tint(NTSC only)

- 1 Press the **MENU** button.
Result : The **INDEX** menu is displayed.
- 2 Press the **VOL◀** or **VOL▶** button.
Result : The “Picture” menu is displayed.
- 4 Use the **CH▼** or **CH▲** button to select one of the following options:
Contrast, Brightness, Sharpness, Color, Tint (NTSC model)
- 5 Press the **VOL◀** or **VOL▶** button.
Result : The horizontal bar is displayed.
- 6 Adjust to satisfy your preference by pressing the **VOL◀** or **VOL▶** button.
- 7 When you are satisfied with the settings, press the **MENU** button repeatedly to return to normal viewing.



Selecting the Sound Mode(depending on PAL model)

The 'S.Mode I/II' button displays/controls the processing and output of the audio signal.

When power is switched ON, the mode is automatically preset to either 'Dual-I' or 'Stereo' depending on the current transmission.

- ◆ If the receiving conditions deteriorate, listening will be easier if the mode is set to the "**Mono**" position using the S.Mode I/II button.
- ◆ If the stereo signal is weak (or if intermittent Stereo-Mono) and automatic switching occurs, then switch to the "**Mono**" mode.
- ◆ When receiving mono sound in the AV mode, connect to the "**L**" input jack on the panels. If the mono sound comes out only from the left speaker, then press the S.Mode/II button.

Choosing a Soundtrack: MTS Settings (depending on NTSC model)

Depending on the particular program being broadcast, you can listen to stereo, mono, a Separate Audio Program.

Choose Mono if the channel is broadcasting in mono, or if you are having difficulty receiving a stereo signal.

Choose Stereo for channels broadcasting in stereo.

Choose SAP when you want to listen to the Secondary Audio Program, which is usually a soundtrack in another language.

Sometimes SAP has unrelated information like news or weather.

Adjusting the Volume/ Switching the Sound Off Temporarily

You can adjust the volume by pressing the VOL ◀ or VOL ▶ button on the remote control.

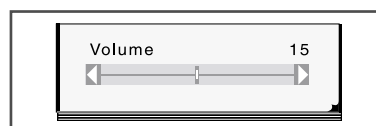
You can switch the sound off temporarily by pressing the MUTE button on the remote control, for example you may wish to answer the telephone.

1 Press the **VOL ▶** button to increase the volume (cursor moves to the right).

2 Press the **VOL ◀** button to decrease the volume (cursor moves to the left).

3 Press the **MUTE** button.
Result : The sound is switched off and "**Mute**" is displayed.

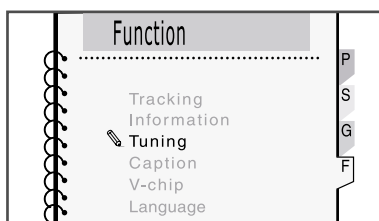
4 When you wish to turn the sound back on at the same volume as before, press the MUTE button again (or either of the volume buttons).



Mute

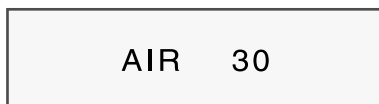
Selecting the Broadcast Source (NTSC model)

Your TV can memorize and store all of the channels available. Once the channels are memorized, you can use the CH ▼ or CH ▲ button to scan through the available channels. Before memorizing available channels, you must select what broadcast source your TV is connected to either an antenna or a cable system.



- 1 Press the **MENU** button.
Result : The **"INDEX"** menu is displayed.
- 2 Press the **CH ▼** or **CH ▲** buttons to select **"FUNCTION"**.
- 3 Press the **VOL ◀** or **VOL ▶** button.
Result : The Function menu is displayed.
- 4 Press the **CH ▼** or **CH ▲** button to select "Tuning"
- 5 Press the **VOL ◀** or **VOL ▶** button.
Result : The Tuning menu is displayed.
- 6 Press the **CH ▼** or **CH ▲** button to select **"AIR/CATV"**.
- 7 Press the **VOL ◀** or **VOL ▶** button.
If antenna is connected, leave it as **AIR** displayed.
If cable connected, press the **VOL ◀** or **VOL ▶** buttons to select **CATV** or **HRC**.

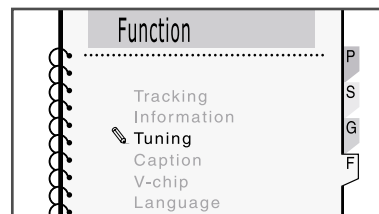
Storing Channels in Memory Automatically (NTSC model)



- 1 First, select the broadcast source as described on the previous page. With the Tuning menu on screen, press **CH ▼** or **CH ▲** button to select **"Auto Tuning"**.
- 2 Press the **VOL ◀** or **VOL ▶** button.
Result : The **TV** will begin memorizing all of the available stations.

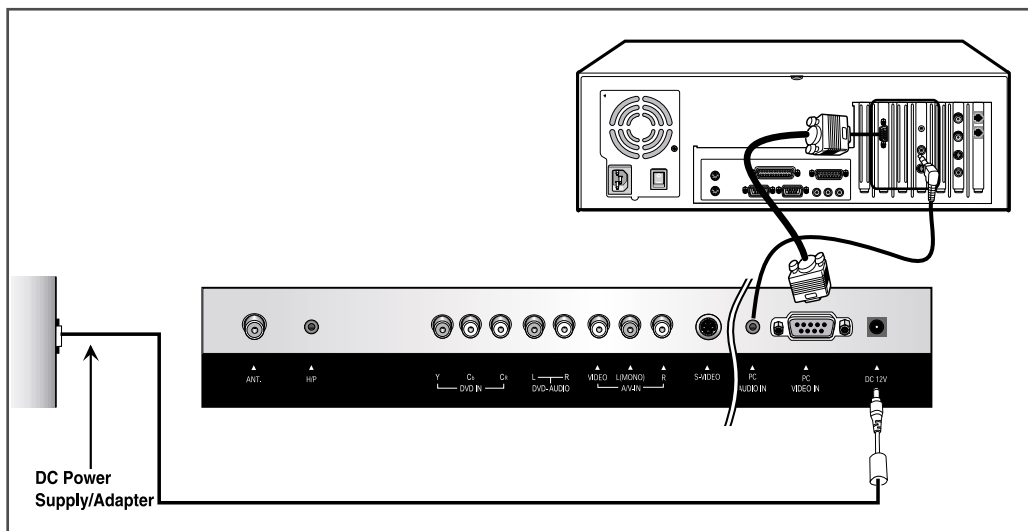
Adding and Erasing Channels(Manual Tuning) (NTSC model)

- 1 Press the numeric buttons to select the channel you want to add or erase.
- 2 To add a channel or erase channel, press the **MENU** button.
- 3 Press the **CH ▼** or **CH ▲** button to select “**FUNCTION**”.
- 4 Press the **VOL ◀** or **VOL ▶** button.
Result : The Function menu is displayed.
- 5 Press the **CH ▼** or **CH ▲** button to select “**Manual Tuning**”.
- 6 Press the **VOL ◀** or **VOL ▶** button
Result : The Manual Tuning menu is displayed.
- 7 Press the **VOL ◀** or **VOL ▶** button .to add or erase.
VOL ◀ : *Erase* **VOL ▶** : *Add*
- 8 If you change the channel No., press the **CH ▼** or **CH ▲** button.
- 9 When you have finished manual storage, press the **MENU** button repeatedly to return to normal viewing.



Manual Tuning
AIR 11 Erased
◀ : Erase ▶ : Add

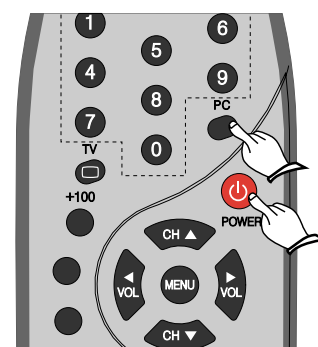
Connecting a PC



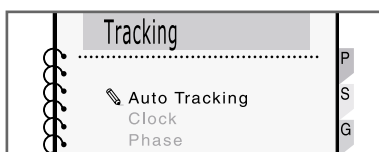
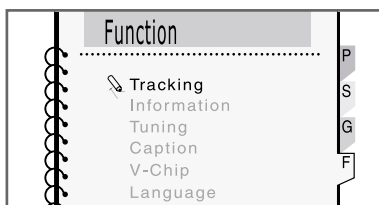
- 1 Turn off your computer and LCD TV.
- 2 Connect a PC D-Sub cable between your PC and PC-VIDEO-IN of the LCD TV.
And then fasten the screws of both sides of the cable.
- 3 Connect a PC Audio Cable between the Sound Output Jack of the sound card on a PC and the PC-AUDIO-IN of the LCD TV.
- 4 Connect a DC Power unit cable to the Power Jack on the rear of your LCD TV.
And connect a power cable to the DC Power Unit before connecting to a power outlet.
- 5 Power on the computer before turning on the LCD TV.

Initial set PC mode

- 1 Power on your LCD TV by pressing the **POWER** button on the main set or on the remote controller.
- 2 Press the **PC** button on the remote controller to switch to the **PC** mode.
Then the PC screen is automatically set.
When a CD-Title runs, the music is output from speakers.
(You can use an external speaker via the Audio Output jack on the rear of the main set.)



When the picture is unstable

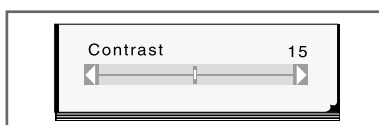
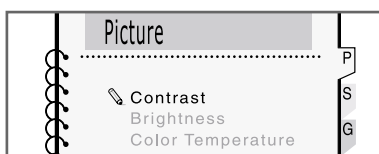


- 1 Press the **MENU** button.
Result : The **INDEX** menu is displayed.
- 2 Press the **CH ▼** or **CH ▲** button to select the "**FUNCTION**".
- 3 Press the **VOL ◀** or **VOL ▶** button to select the "**Tracking**", then press the **VOL ◀** or **VOL ▶** button.
Result : The "**TRACKING**" menu will be displayed.
- 4 Press the **VOL ◀** or **VOL ▶** button.
Result : The message "**Auto Tracking Processing...**" appears on the screen to stabilize the screen.
- 5 When you are satisfied with the settings, press the **MENU** button repeatedly to return to normal viewing.

Adjusting the Picture settings

Your LCD TV has several settings which allow you to control picture quality:

Contrast , Brightness, Color Temperature



- 1 Press the **MENU** button.
Result : The **INDEX** menu is displayed.
- 2 Press the **VOL ◀** or **VOL ▶** button to select the "**PICTURE**".
Result : The Picture menu is displayed.
- 3 Press the **CH ▼** or **CH ▲** button to select one of the following options:
Contrast
Brightness
Color Temperature
- 4 Press the **VOL ◀** or **VOL ▶** button.
- 5 Adjust to satisfy your preference by pressing the **VOL ◀** or **VOL ▶** button.
 - **Contrast:**
Adjust the brightness and darkness between objects and back grounds.
 - **Brightness :**
Adjust the overall of the screen brighter or darker.
 - **Color Temperature :**
The tone of color can be changed from reddish white to bluish white. The individual color components are also user customizable.

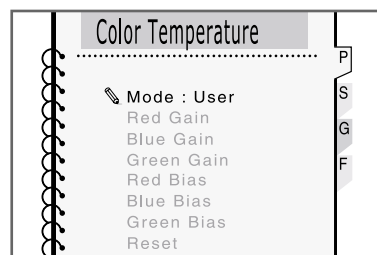
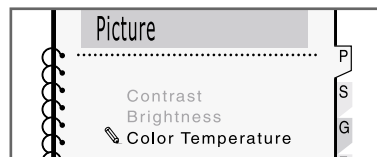
Adjusting the Picture settings

6500K	STANDARD	9300K	USER	RESET
Redish white	Plain white	Blueish white	User customizable	Factorn default value

Adjusting the Color Temperature setting

1. Press the **CH ▼** or **CH ▲** button to select “**Color Temperature**” in Picture mode.
2. Press the **VOL ◀** or **VOL ▶** button.
3. Press the **VOL ◀** or **VOL ▶** button to select “User”.
4. Press the **MENU** button.
Result : User menu is displayed.
5. Press the **CH ▼** or **CH ▲** button to select one of the following options:
Red Gain, Blue Gain, Green Gain, Red Bias, Blue Bias, Green Bias
6. Press the **VOL ◀** or **VOL ▶** button.
7. Adjust to satisfy your preference by pressing the **VOL ◀** or **VOL ▶** button.

- 6 When you are satisfied with the settings, press the **MENU** button repeatedly to return to normal viewing.



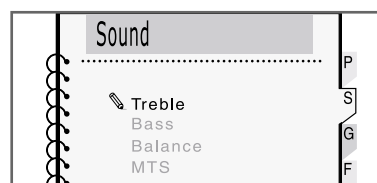
Adjusting the Sound settings(Optional)

Adjusting the sound settings

The sound settings can be adjusted to suit your personal preference :

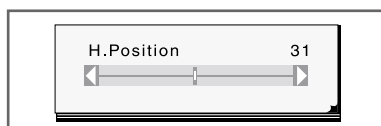
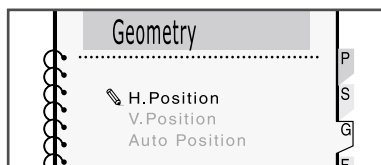
Treble, Bass, Balance, MTS

- 1 Press the **MENU** button.
Result: The **INDEX** menu is displayed.
- 2 Press the **CH ▼** or **CH ▲** button to select the “**SOUND**”.
- 3 Press the **CH ▼** or **CH ▲** button to select one of the following options:
Treble, Bass, Balance, MTS
- 4 Press the **VOL ◀** or **VOL ▶** button.
Result : The horizontal bar is displayed.
- 5 Adjust to satisfy your preference by pressing the **VOL ◀** or **VOL ▶** button.
(MTS) : To select **Stereo** or **Mono** .
- 6 When you are satisfied with the settings, press the **MENU** button repeatedly to return to normal viewing.



Adjusting the Geometry settings

The geometry settings can be adjusted to center your viewing screen.

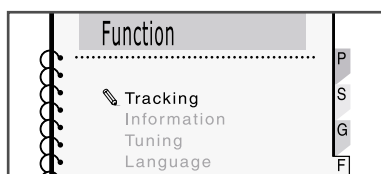


- 1 Press the MENU button.
Result : The INDEX menu is displayed.
- 2 Press the CH ▼ or CH ▲ button to select "GEOMETRY".
- 3 Press the VOL ◀ or VOL ▶ button.
- 4 Press the CH ▼ or CH ▲ button to select one of the following options:
H.Position, V.Position, Auto Position
- 5 Press the VOL ◀ or VOL ▶ button.
Result : The horizontal bar is displayed.
- 6 Adjust to satisfy your preference by pressing the VOL ◀ or VOL ▶ button.

*If the position of screen is horizontally off-centered, use **H.Position**.
If the position of screen is vertically off-centered, use **V.Position**.
Use the **Auto Position** to position the screen to be horizontally and vertically centered automatically.*
- 7 When you are satisfied with the settings, press the MENU button repeatedly to return to normal viewing.

PC stable adjustment

When the screen is unstable in PC settings, or to make your PC stable by adjusting the Clock and Phase, set the PC in the following sequence:



- 1 Press the MENU button.
Result : The INDEX menu is displayed.
- 2 Press the CH ▼ or CH ▲ button to select "FUNCTION".
- 3 Press the VOL ◀ or VOL ▶ button.
Result : The Function menu is displayed.
- 4 Press the VOL ◀ or VOL ▶ button to select "Tracking".
Result : The Tracking menu is displayed.
- 5 Press the CH ▼ or CH ▲ button to select one of the following options:
Auto Tracking, Clock, Phase

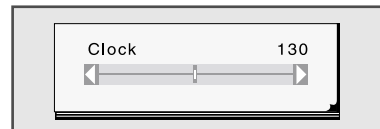
PC stable adjustment

- | | | |
|----------|--|---|
| 6 | To adjust the..
Auto Tracking | Press the...
VOL ◀ or VOL ▶ button.
The message “ Auto Tracking Processing... ”
appears on the screen to stabilize the screen. |
| | CLOCK | VOL ◀ or VOL ▶ button. |
| | PHASE | VOL ◀ or VOL ▶ button. |

NOTE : **Auto Tracking :**
Automatically optimizes the status of screen.
This is recommended to perform for new PC.

Clock :
Adjusts the horizontal size of screen by increasing /
decreasing the number of pixels.

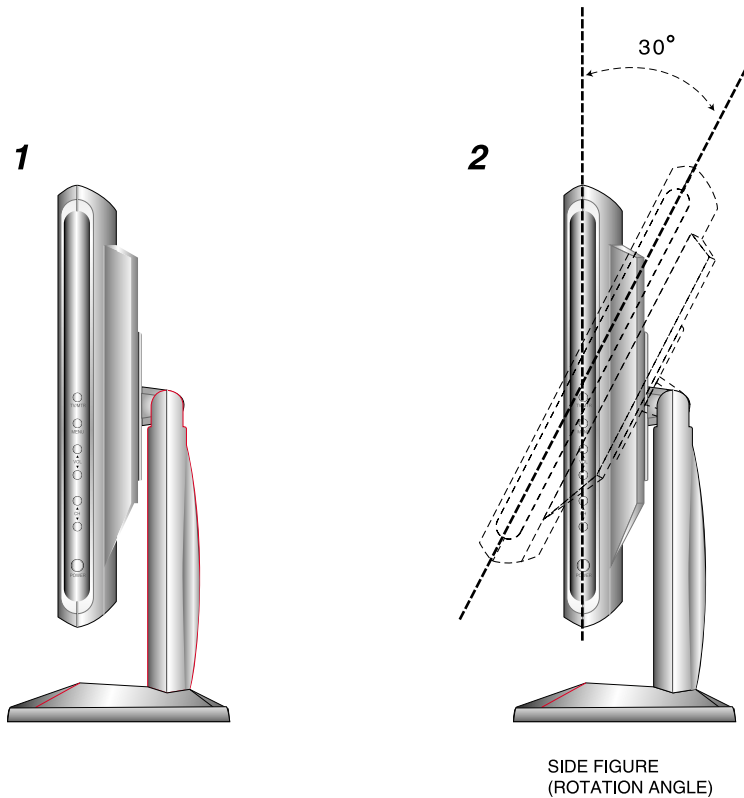
Phase :
Sets the focus of screen.
Adjusts when some noise exists or the character lines are
seen overlapped.



- 7** When you are satisfied with the settings, press the **MENU** button repeatedly to return to normal viewing.

When using as desk-top type

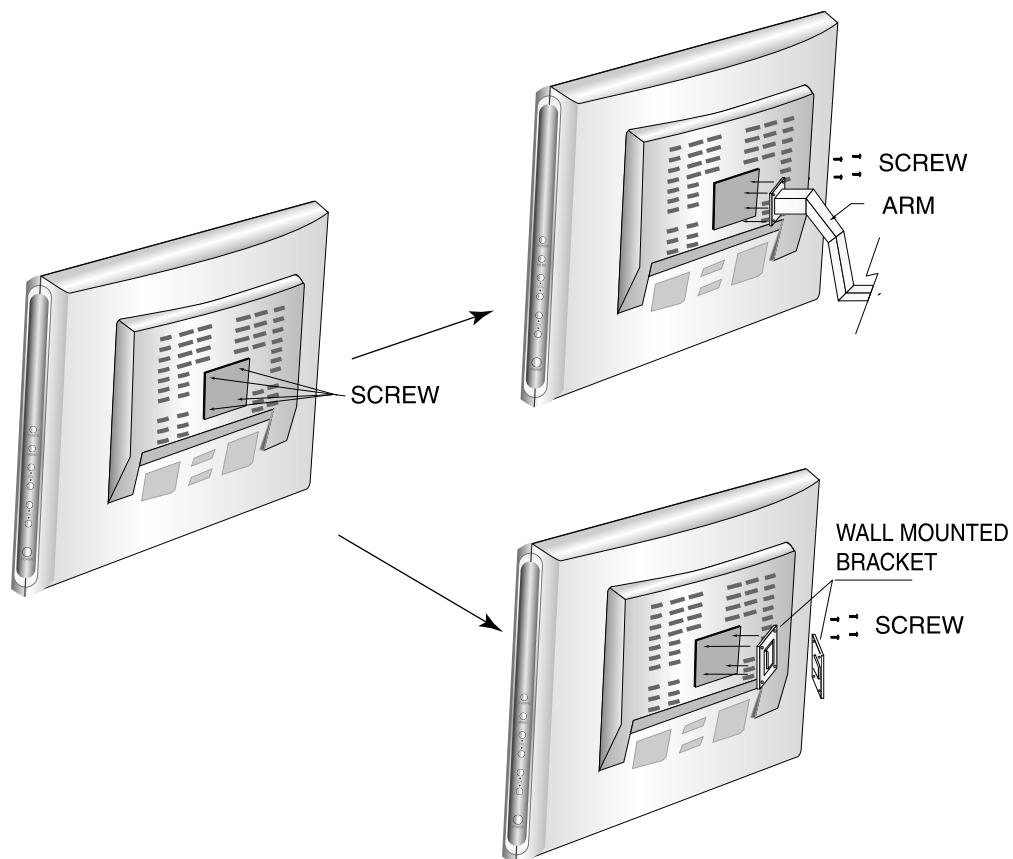
Rotate the stand as shown in the below figure with pressing the Fold Button, and stand LCD TV.



Caution!

- Make slope up to 20 degree after standing up the LCD TV. In this case, you need not press the Fold Button.
 - Press and rotate the Fold Button once again in case of entirely folding the stand backward.
 - Do not rotate the stand by applying excessive force with the Fold Button not pressed. The connection part between stand and liquid monitor may be damaged.
-

When using VESA standard wall-mounting devices



1. Remove a hinge cover.
2. Remove the stand after loosening screws fixing the stand.
3. Fix Arm or wall-mounted bracket at the screw holes (4 places) located in the middle part of the rear LCD TV, with screws.

APPENDIX A: Power saver

This monitor has a built-in power management system called Power saver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain period of time. The available modes are "On", "Standby", "Sleep" and "Deep Sleep". Power Saver operates with a VESA DPMS compliant video card installed in your computer. You use a software utility installed on your computer to set up this feature. See below table for details.

State	Normal Operation	Power-Saving Function mode (EPA / ENERGY 2000)		
		Standby Mode	Sleep Mode Position A1	Deep Sleep Mode Position A2
Horizontal Sync Vertical Sync Video	Active Active Active	Inactive Active Blanked	Active Inactive Blanked	inactive Inactive Blanked
Power Indicator	Green	Amber	Amber Blinking (0.5 sec interval)	Amber Blinking (1 sec. interval)
Power Consumption	30W (Max.)	Less than 3W	Less than 3W	Less than 3W

NOTE : This monitor automatically returns to normal operation when horizontal and vertical sync return. This occurs when you move the computer's mouse or press a key on the keyboard.

APPENDIX B : Display modes

If the signal from the system equals to the standard signal mode, the screen is adjusted automatically. If the signal from the system doesn't equal to the standard signal mode, adjust the mode with referring to the Videocard user guide because the screen might not display or only the power LED might be on. For the display modes listed below, the screen image has been optimized during manufacture.

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	
VGA	720 * 400	31,469	70,087	28,322	
	640 * 480	31,469	59,940	25,175	
	640 * 480	37,500	75,000	31,500	
	640 * 480	43,269	85,008	36,000	
SVGA	800 * 600	46,875	75,000	49,500	
	800 * 600	53,674	85,061	56,250	
XGA	1024 * 768	48,363	60,004	65,000	
	1024 * 768	60,023	75,029	78,750	
	1024 * 768	68,677	84,997	94,500	
SXGA	1280 * 1204	63,337	59,980	108,180	
	1280 * 1204	79,976	75,020	134,999	

APPENDIX D : Specification

		20.1"	15.1"
Panel	Panel Type	20.1" (51cm) TFT Color LCD	15.1" (38cm) TFT Color LCD
	Display Area	408.0mm × 306.0mm	307.2mm × 230.4mm
	Display Color	16.7million	16.7million
	Pixel Pitch	0.6375mm × 0.6375mm	0.3mm × 0.3mm
	Recommended Resolution	640 × 480 @ 85Hz, 69KHz	1024 × 768 @ 85Hz
	Contrast Ratio	400:1 (Typical)	350:1 (Typical)
	Brightness	400 cd/m ²	400 cd/m ²
	Viewing Angle	H:140° V:120°	H: 120° V: 90°
	Scanning Frequency	H:31-69kHz V:56-85Hz	H: 31-69 kHz V: 56-85 Hz
In/ Out	PC	Analog RGB 15 pin D-Sub	Analog RGB15 pin D-Sub
		PC Audio Input	PC Audio Input
	Video	Composite Input	Composite Input
		S-Video In DVD (Y,P _b ,P _r) Input	S-Video In
	Audio	Composite Input DVD Input Head-phone Out	Composite Input Headphone Out
TV Signal	Antenna	75ohm Coaxial cable	75 ohm Coaxial cable
	Color System	NTSC - M	NTSC - M
	Stereo Type	MTS	MTS
	Surround Sound	Multi Channel Sound Virtual Surround Sound	
	Text	Caption	Caption
	V-Chip	Yes	Yes
Others	Certifications	UL, CSA, FCC, CE, EIAJ	UL, CSA, FCC, CE, EIAJ
	Power Consumption	50watts	30 watts
	Power Save Mode	3watts	3 watts
	Speaker	5 watts × 2	3 watts × 2
	Plug & Play	DDC 1/2 B	DDC 1/2B
	Screen Control	On Screen Display Menu	On Screen Display Menu
	Weight	Net 13kg / Gross 15kg	Net 4.6kg / Gross 5.5kg
	Power Supply	DC12 volts	DC 12 volts
	Remote Controller	Yes	Yes
	Dimension	646mm(W) × 430mm(H) × 200mm(D)	380mm(W) × 297mm(H) × 168mm(D)