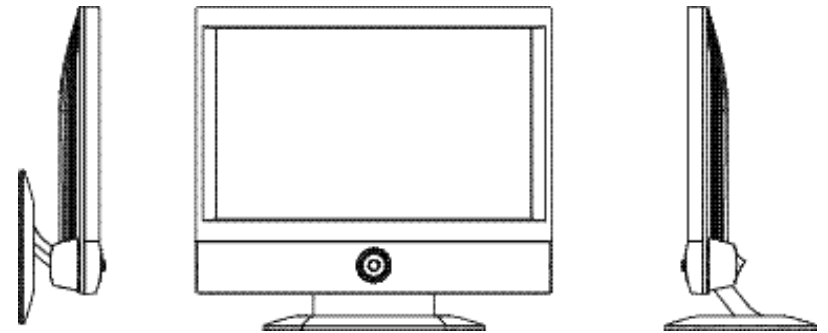


17" Wide TFT-LCD TV User's Manual

Model : DCM-17WT



Thank you for selecting our 17" TFT-LCD TV monitor. Please take a few minutes to read this user's manual for the best performance of this TV.

Please keep this user's manual for future reference.

The present home appliance is certified and approved by EMC/EMI and can be used in all places including residency area.

Information in this manual is subject to change without prior notice. Ver1.00E

FCC Information

This equipment has been tested and found to comply with 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 can generate, use, and 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 unacceptable interference to radio and 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.

Cation : Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Safety Instructions

To reduce the risk of fire, electrical shock, and other injuries, keep these safety precautions in mind when installing, using, and maintaining your machine.

Here is Notice mark with <Warning> & <Caution> and its meanings are as followed;

<Warning> : If you manipulate against the notice, it may cause serious injury or death to user.

<Caution> : If you manipulate against the notice, it may cause slight injury to user or appliance.

<Warning> for Power

1. Do not use damaged or loose plug and receptacle.
This may cause an electric shock or fire.
2. Do not touch the plug with wet hands.
This may cause an electric shock.
3. Do not connect too many extension cords or plugs to a wall outlet.
This may cause a fire.
4. Do not bend the plug and wire excessively or place heavy objects upon them, which could cause damage.
Failure to do so may cause an electric shock or fire.
5. Plug the power cord perfectly into a wall outlet.
Unstable connection of the power cord may cause a fire.

<Caution> for Power

1. Hold the head part of power cord when you unplug it from the wall outlet.
Its violation may cause unexpected heating or fire by wires damage.
2. Disconnect the plug from the outlet while cleaning the TV.
Its violation may cause an electric shock or fire.

<Warning> for Installation

1. Do not put a glass of water, chemical substances or any small metal object on the TV set.
This may cause damage, electric shock or fire. If a foreign substance gets into the set, unplug it and contact a service center.
2. Keep your TV set out of humidity and dust.
An electric shock or fire could occur in the TV set.
3. Do not use or store inflammable substances near the set.
This may cause an explosion or fire.
4. Do not place the TV on an unstable cart, stand, tripod, bracket or table.
Otherwise, it can fall.
The set can be damaged seriously if this happens.
Place the TV set on a stable surface.
5. Do not place or use any inflammable spray, materials, etc. near the TV set.
This may cause an explosion or fire.
6. Do not keep the set under feeble and bad ventilation condition such as on the bookshelf or in the wall closet.
This may cause a fire by increasing internal temperature of the set.
7. Do not place power cord near radiator or heat register.
This may cause an electric shock or fire by melting power cord's coating.
8. An outdoor antenna system should not be placed near overhead power lines, other electric lines, power circuits, etc.
This may cause an electric shock or fire.
9. Bend the outdoor antenna cable, which is located in the building. This is to prevent the rainwater from coming into through the antenna cable.
This may cause an electric shock or fire.
10. Do not place the TV set on an unstable cart, stand, tripod, bracket or table.
Otherwise, it can fall.
This can cause serious injury to a child or adult and serious damage to the appliance.
11. Do not incline the TV set over 15o.
This may cause serious injure to a child or adult and serious damage to the appliance.

<Caution> for Installation

1. Place the TV at a certain distance from the wall for ventilation.
If not, it may cause a fire by increasing internal temperature of the TV.
2. Do not cover the vents on the monitor cabinet.
Bad ventilation may cause a breakdown or fire.
3. Place the monitor on a flat and stable surface.
4. Lift the monitor using both hands when you move it.

<Warning> for Use

1. Disconnect the plug from the outlet during storms, lightening or your long absence.
Failure to do so may cause an electric shock or fire.
2. After you removing the batteries from remote control, keep them out of children's reach. Children or infants may swallow them.
If it happens, contact your doctor immediately.
3. Never insert any metal object into monitor openings.
This may cause an electric shock, fire or injury.
4. Do not remove its cover (or back). No user serviceable parts inside.
This may cause an electric shock or fire. Refer servicing to qualified service personnel.

<Caution> for Use

1. Unplug the TV from the wall outlet when not being used for a long period of time.
If not, the dust heated in the unit may cause an electric shock or fire.
2. Unplug the TV from the wall outlet and disconnect the antenna or cable system when moving it to other places.
If not, it may cause damage to cable system and cause an electric shock or fire.
3. Unplug the power cord from wall outlet if you notice strange smoke, sound or smell from the TV set, and refer servicing to qualified service personnel.
This may cause an electric shock or fire.
4. Unplug the TV from the wall outlet before cleaning. Use a damp cloth but not liquid or aerosol cleaners.
If not, an electric shock or fire may be provoked.

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Main Features

■ Easy & convenient Installation

Unlike conventional CRT TV, its slim size and design allow user to install and use without much limitation.

■ Easy-to-use Function

User can enjoy using the product even more due to its easy-to-use remote control and rotary function buttons on TV

■ Simple installation on the wall

User can install the unit on the wall simply with three screws or nails.
(Attention: The wall should be solid enough to avoid that the unit is crooked or dropped.)

■ Auto Adjustment

You can simply adjust the TV to the best conditions with one button.

■ Remarkable Functional Extension

The unit carries out the functions of PC monitor as well as TV and can work in connection with various products such as DVD, VCR, Camcorder and Audio.

■ Perfect Image

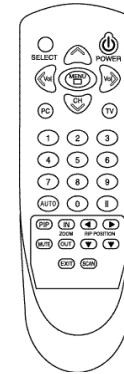
The most advanced TFT-LCD panel is adapted to the unit. It removes the screen flicker effect of Braun tube mode, which relieves eye fatigue to a considerable point and provides the user perfect images.

■ Profound and Rich Sound Effect

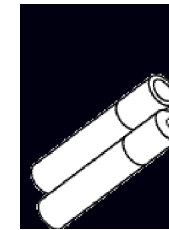
User can enjoy profound and rich sound without additional audio player thanks to the unit's audio part with its special speakers, which is of the best quality among the products of the same rank.

Package Contents

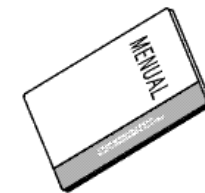
Please make sure the following items are included with your LCD TV. If any items are missing, contact with your dealer.



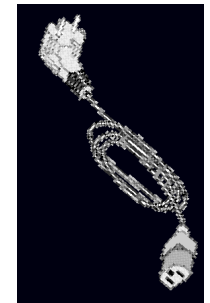
Remote Control



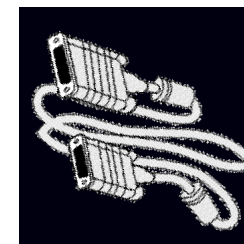
Batteries(AA×2)



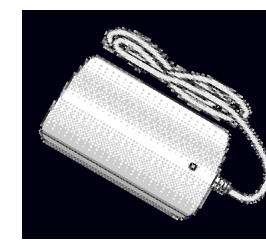
User's Manual



Power Cord



15Pin VGA Cable

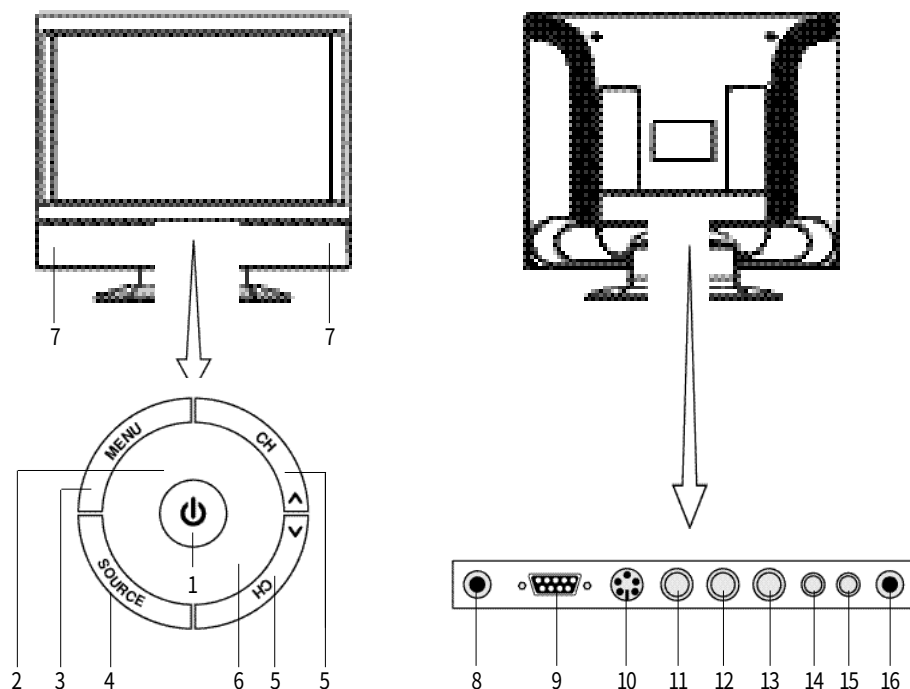


DC 12V Adapter



Audio Cable

TV Parts



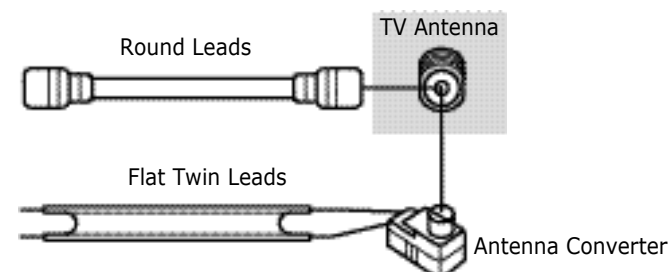
- | | |
|--------------------------|-----------------------------|
| 1. Power | 10. S-Video In jack |
| 2. Remote Control Sensor | 11. Composite Video In jack |
| 3. Menu | 12. Audio (L) In jack |
| 4. Input Mode | 13. Audio(R) In jack |
| 5. CH Up/Down | 14. Stereo Audio In jack |
| 6. Power indicator | 15. Stereo Audio Out jack |
| 7. Speaker | 16. TV Antenna |
| 8. Power Input Connector | |
| 9. PC Video Input | |

Connection

1.Power Connection

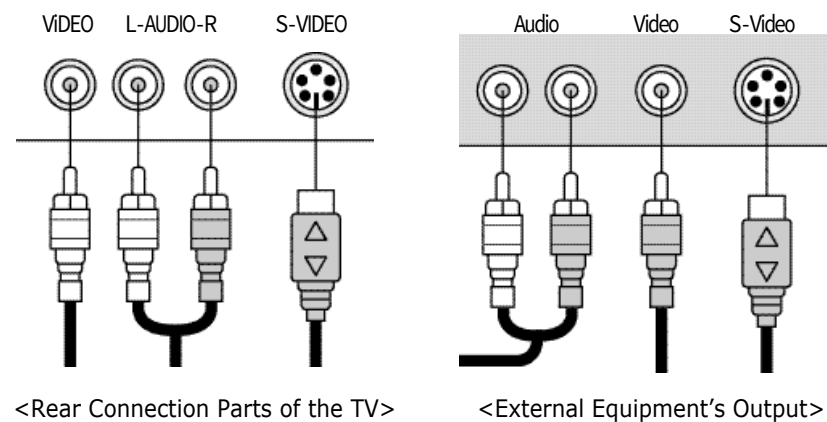
- The present unit adjusts the voltage automatically.
If you use 110V power, please connect the adapter convertible to 110V to AC cord before use.
- Please check that the AC cord is plugged in correctly when you connect it to an outlet or DC adapter.

2.Connection of Antennas



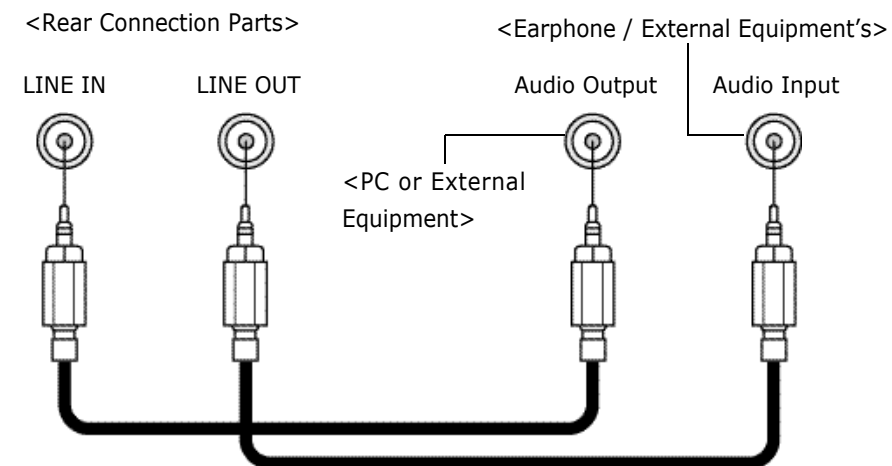
- Make sure that the copper wire does not be bent if you use Round Leads (75-ohm)
- Round Leads, Flat Twin Leads and antenna converter are separate purchasing items.

3. Connecting of Composite Connector / S-Video connector

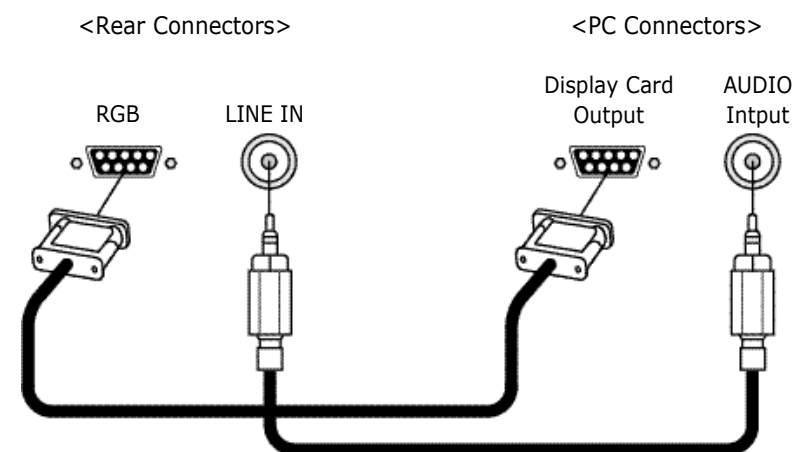


- Connect a set of audio cables between the L, R AUDIO INPUT jacks on the TV and various players (VTR, DVD, Set Top Box, etc).
- Make sure that all connectors are connected with same color of input and output.
- S-Video outputs give you better images than Composite Video outputs.

4. Connecting of Audio Line IN / OUT

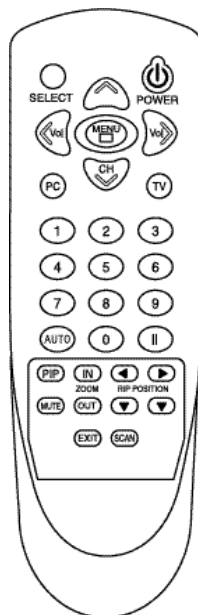


5. Connecting to PC



Remote Control

1. Buttons



- ① POWER : Turns the LCD TV on and off
- ② SELECT : Change input source
- ③ CHANNEL UP / DOWN : Change TV channel
- ④ MENU : MENU control
- ⑤ VOLUME UP / DOWN : Volume control
- ⑥ PC / TV : Change PC / TV signal
- ⑦ 0 ~ 9 : Select TV channels directly
- ⑧ AUTO : Auto adjustment of PC Mode
- ⑨ || : Pause
- ⑩ PIP : PIP select
- ⑪ MUTE : Silent of sound
- ⑫ ZOOM IN / OUT : Control screen size
- ⑬ ▲▼◀▶ : Change PIP position
- ⑭ SCAN : Auto TV channel selection
- ⑮ EXIT : Exit menu or function

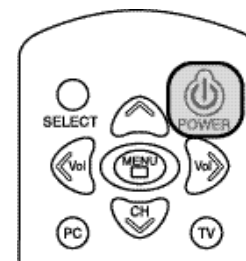
The remote control can be used up to about 7m, 15o (R/L) from remote control sensor.

2. Installing Batteries in the Remote Control

- 1) Slide the cover out completely.
- 2) Make sure to match the " +/ - " Ends of the batteries with the diagram inside the compartment and install 2 batteries.
- 3) Replace the cover.
- 4) Battery : 2 x DC 1.5V AA type

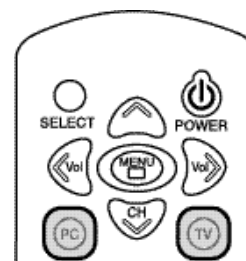
Be sure to put the battery correctly in order to avoid all dangers including blowout, water leakage or injury.

For environmental protection, please dispose of dead batteries to their separate collection can.



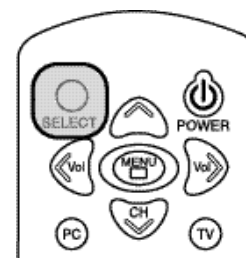
3. Power On/Off

- Turns the TV on and off



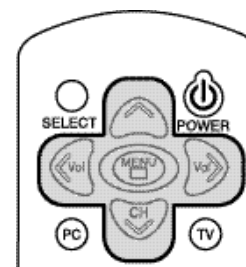
4. TV mode / Monitor mode

- Power on and press TV button to enter the TV mode.
- Power on and press PC button to enter the PC mode



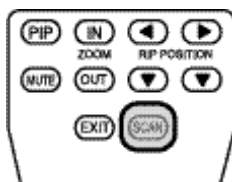
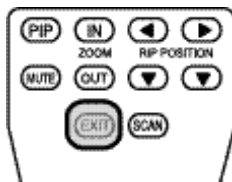
5. Change Input Source

- If you want to change external input source while watching TV, please press the SELECT button on remote control. At each time you press it, the signal will change as follows: PC -> TV -> Composite -> S-Video -> PC.



6. How to use MENU

- Press <MENU> button to enter main menu. Use <CH> button to select up and down menu.
- To move to sub-menu, press <MENU> button again or press <VOL> menu of right side.

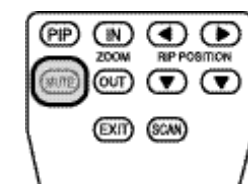
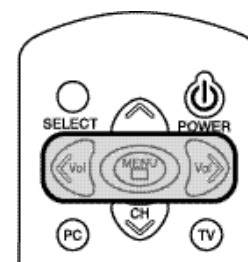
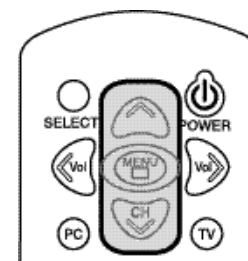


- In sub-menu, use <CH> button to select up and down menu like main menu operation.
- To control function of menu, use <VOL> button.
- If you finished all controls of menu, press <MENU> button in sub-menu to enter main menu and then press <MENU> button again to exit menu control.
- Or use <EXIT> button of the bottom of remote control to finish current controlling menu.

7. Memorizing TV Channels

- To search TV channel, press <SCAN> button in TV mode.
- To stop searching TV channel and to store searched TV channel, press <MENU> button.
- TV channel memory function works only during the airtime. If TV signal is very weak, it is hard to search signals.
- When the power is cut off or the unit system is reinitialized, all the recorded channel information disappears. In this case, you need to record the channels again.
- To erase searched TV channel, use channel edit function of menu mode

* Channels 2~69 are for "off-air"(antenna) and channels 1 and 14~69 are for cable channels. Channels 14~69 are for both antenna and cable channels. To select one of them, use source menu of TV menu.



8. Changing TV Channel

- If some channels are stored, you have only stored channels to explore by pressing these buttons. If you have not saved any channel yet, you go through all the channels with these buttons. For your convenience, it is recommended to store some channels before use.
- When you press <CH> buttons in TV Mode (including PIP mode), the TV changes channels in sequence.
- You can view any channel directly by using number buttons on the remote control.
- You can change TV channel in menu mode, too.

9. Volume Control / MUTE

- You can control volume when audio signal is connected such as TV, PC and external signal.
- Press to increase or decrease the volume.
- The system volume can be controlled by OSD button.
- Press < MUTE > button to cut off the sound temporarily and press it again to revive the sound.

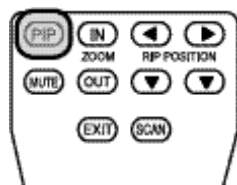
10. Auto Adjustment of PC Mode

- Press <AUTO> button of remote control to adjust the size of monitor screen and resolution to the best conditions automatically.



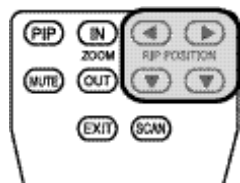
11. Freezing the Picture

- Press <II> button to freeze the picture and press again to continue.



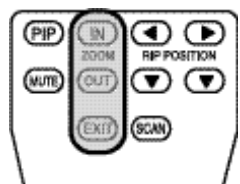
12. PIP function and changing the screen size

- Press <PIP> button to create PIP screen.
- Press < PIP > button to change the screen size. The size changes as following order (off->small-> middle->large)
- PIP is only available in PC monitor mode.
- PIP is available with TV mode and external signals (Composite, S-Video).
- You can adjust PIP input signals in menu mode.



13. Changing the position of PIP

- Use <direction-key> of remote control to change the PIP position.
- PIP position is also changeable in menu mode.

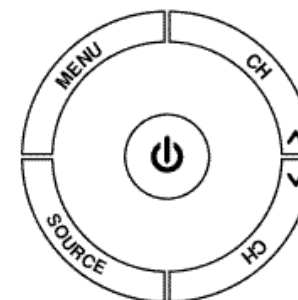


14. Changing the Screen Size

- Use ZOOM <IN> button to magnify the size of the screen.
- Use ZOOM <OUT> button to diminish the size of the screen.
- Changing screen size is done with the central part of the screen as base point. You can not make screen size smaller than actual size.
- To finish changing the screen size, press <EXIT> button.

Function Button

Function button work as follows



1. : power and volume adjustment (rotary button)

- This button turns on and off.
- You can control the volume by turning this button.
- You can choose the desired value of selected menu by turning the button.

2. CH ▲ / CH ▼ : change of channel and menu

- It changes TV channel.
- It selects main/sub menu (up and down).

3. MENU : Menu selection

- You use the button to start or quit the menu mode.
- You can enter sub-menu or return to main-menu section by this button.

4. SOURCE : Selection among TV, PC monitor and other external inputs (Composite, S-Video)

- By pressing the button, you can have PC monitor signal -> TV -> Composite signal -> S-Video signal -> PC monitor signal in turn.

TV MENU

Picture



1) Brightness

This controls the brightness of the LCD.

2) Contrast

This controls the contrast of the LCD.

3) Color

This adjusts the depth of TV image color.

4) Tint

This adjusts the tint of TV image color.

5) Image

This adjusts the clarity and the focus of screen image.

6) Scaling

Normal : Image displayed in full screen.

zoom2 : Image enlarged by 200% from the center of the screen.

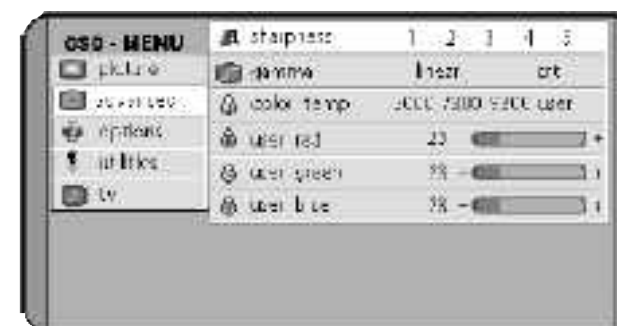
Anamorphic : Image displayed in panoramic view.

Zoom : Image enlarged by 150% from the center of the screen.

Fill aspect ratio : Image displayed with an aspect ratio 4:3

Wide : Image displayed with an aspect ratio 4:3 depending on the horizontal size

Advanced



1) Sharpness

This adjusts the clarity and the focus of screen image.

SHARP 1 -> 2 -> 3 -> 4 -> 5 SOFT

2) Gamma

Linear : It shows gamma pattern of LCD TV type.

CRT : It shows gamma pattern of CRT TV type.

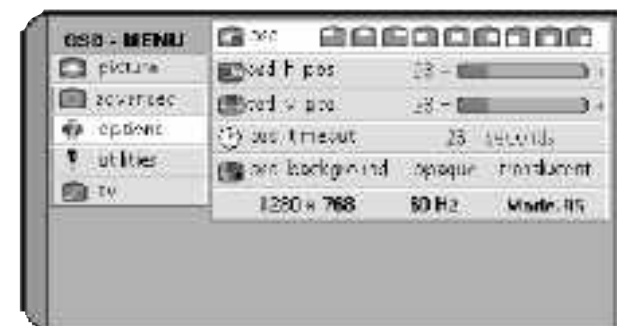
3) Color temp

This provides three preset color adjustments.

Warm 5000-> 7300-> 9300 Cool

USER : User can adjust each of R, G, B.

Options



1) osd

It provides nine preset OSD positions.

2) osd h / v pos

It controls OSD position.

3) osd timeout

User can select the time up to 60 seconds.

4) osd background

It controls the color of OSD background.

Opaque (gray), translucent (transparent)

■ Utilities**1) Language**

User can select OSD language.

2) Volume

This controls audio volume.

3) Freeze frame

This pauses the image.

4) Auto adjust

This adjusts the screen automatically to the best condition.

You can do this by pressing the VOL button of remote control or by turning the OSD power button to the right.

5) Source

You can select a source.

PC -> TV -> Composite -> S-Video

6) Factory reset

This allows you to reset all the OSD control settings back to the factory settings.

For this, either press the VOL button of remote control or turn the OSD power button to the right.

■ TV**1) Source**

It selects a TV broadcasting signal (antenna / cable).

2) Channel

You can move through TV channels by this.

3) Tune option

It selects channel-tuning mode (manual/auto).

4) Fine tuning

When you chose manual tuning mode, fine tuning function works.

5) Channel edit

It adds new entries or deletes stored channels.

You can edit channels either by pressing VOL button on the remote control or turning POWER button to the right..

6) Channel search

This searches and stores channels as remote control (SCAN button function). To search for channels, either press the < VOL > button on the right side of the remote control or turn the rotary button to the right.

To stop channel search, press the < MENU > button on the remote control or on the function button.

* 2Channels 2~69 are for "off-air"(antenna) and channels 1 and 14~69 are for cable channels.

Channels 14~69 are for both antenna and cable channels. To select one of them, use source menu of TV menu.

7) Channel swap

It changes stored channel numbers at will.

You can do this by either pressing the < VOL > button on the right side of the remote control or by turning the rotary button of function button to the right.

After the Channel Swap window appears on the screen, you can change the current channel number to a new one you want. You can select new channel numbers to store by pressing the right < VOL > button on the remote control. You can restore former state by pressing the left < VOL > button.

8)TV system

It selects TV broadcasting system of the area. KOREA / USA / JAPAN

PC Monitor Menu

■ Picture



1) Brightness

It controls the LCD brightness.

2) Contrast

It controls the LCD contrast.

3) h position

It controls horizontal image position.

4) v position

It controls vertical image position.

5) phase

It adjusts the focus, clarity and stability of image.

6) clock

It adjusts the horizontal size of display.

7) Scaling

Fill all : Image displayed in full screen regardless the resolution.

Fill aspect ratio : Image displayed in full screen horizontally or vertically.

One to one : Image displayed in original size as received from input.

■ Advanced



1) Sharpness

It adjusts the clarity and the focus of screen image.

SHARP 1 -> 2 -> 3 -> 4 -> 5 SOFT

2) Gamma

Linear : It shows gamma pattern of LCD monitor type.

CRT : It shows gamma pattern of CRT monitor type.

3) color temp

It provides three preset color adjustments.

Warm 5000-> 7300-> 9300 Cool

USER : User can adjust each of R,G,B.

■ PIP(Picture in Picture)



* PIP mode is available only in PC monitor mode.

1) Size

It selects the PIP size.

2) Pos

It selects the PIP position.

3) SOURCE

It selects the source of video signal.

(1) Auto: It searches and selects automatically the signal currently being inserted among Composite, S-video and TV signals. The priority is given in the following order: TV, Composite, S-Video.

(2) Comp, S-video, TV : It selects manually Composite, S-Video and TV signals. If the signal manually selected is feeble or does not exist, PIP screen cannot be displayed normally.

* Only when the PIP mode is "ON", you can adjust brightness , contrast , color, tint and sharpness.

4) Brightness (of PIP screen)

5) Contrast (of PIP screen)

6) Color (of PIP screen)

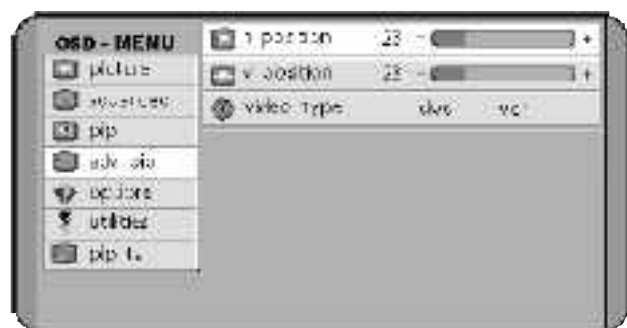
7) Tint (of PIP screen)

8) Sharpness (PIP screen)

* The conditions of PIP screen such as brightness, contrast, color, and clarity may be somewhat inferior to those of normal screen.

* Use PIP TV menu if you need to control TV menu when monitor mode is PIP TV.

■ Adv PIP



* You can control adv pip menu only when the PIP mode is "ON".

1) H Position

It controls the horizontal PIP screen position.

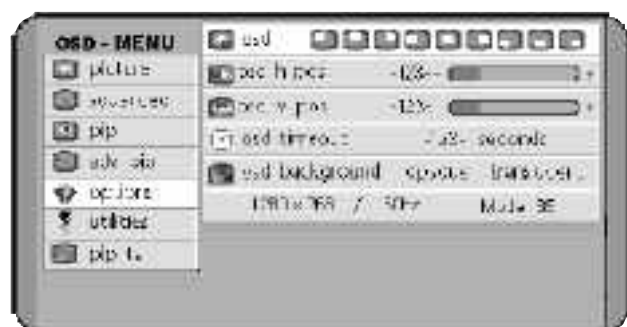
2) V Position

It controls the vertical PIP screen position.

3) Video type

It adjusts PIP video input signal type.

■ Options



1) osd

This provides nine preset OSD positions.

2) osd h / v pos

This controls the position of OSD.

3) osd timeout

You can select the time up to 60 seconds.

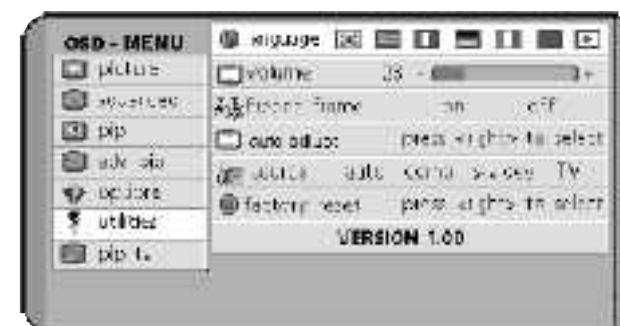
4) osd background

This controls the color of OSD background.

5) Opaque, translucent

This provides the current PC signal resolution and vertical frequency.

■ Utilities



1) Language

It selects language of OSD menu.

2) Volume

It controls the volume of audio.

3) Freeze frame

It pauses the image by selecting "ON".

4) Auto adjust

It adjust the screen to the best condition automatically.

For this, press the VOL button of remote control or turn the power button of OSD to the right.

5) Source

You can select a source in the following order:

PC -> TV -> Composite -> S-video

6) Factory reset

This allows you to reset all the OSD control settings back to the factory settings.

For this adjustment, press the VOL button of the right side of remote control or turn the OSD power button to the right.

■ PIP TV**1) Source**

It selects a TV broadcasting signals (antenna / cable).

2) Channel

It allows you to change TV channels.

* Channels between 2 and 69 are for "off-air"(antenna) and channel 1 as

well as those between 14~69 are for cable channels.

Channels between 14 and 69 are for both antenna and cable. To select one of them, use the source menu of TV menu.

3) Tune option

It selects a channel search mode (manual/auto).

4) Fine tuning

Please change to manually to match the OSD description.

5) Volume

Control volume of TV signal.

- * Some points to keep in mind when using Menu
- * You must check if all menus are adjusted properly before use.

■ Some point to keep in mind when using Menu

You must check if all menus are adjusted properly before use.

1. TV Mode

You should verify :

- 1) The TV Source (Antenna / Cable).
- 2) That the TV area (TV system) is set as USA, KOREA or JAPAN.
- 3) That TV channels are stored normally.
- 4) That the image signal input is set as TV.
- 5) Whether the Mute function is set or not.

2. PC Monitor mode

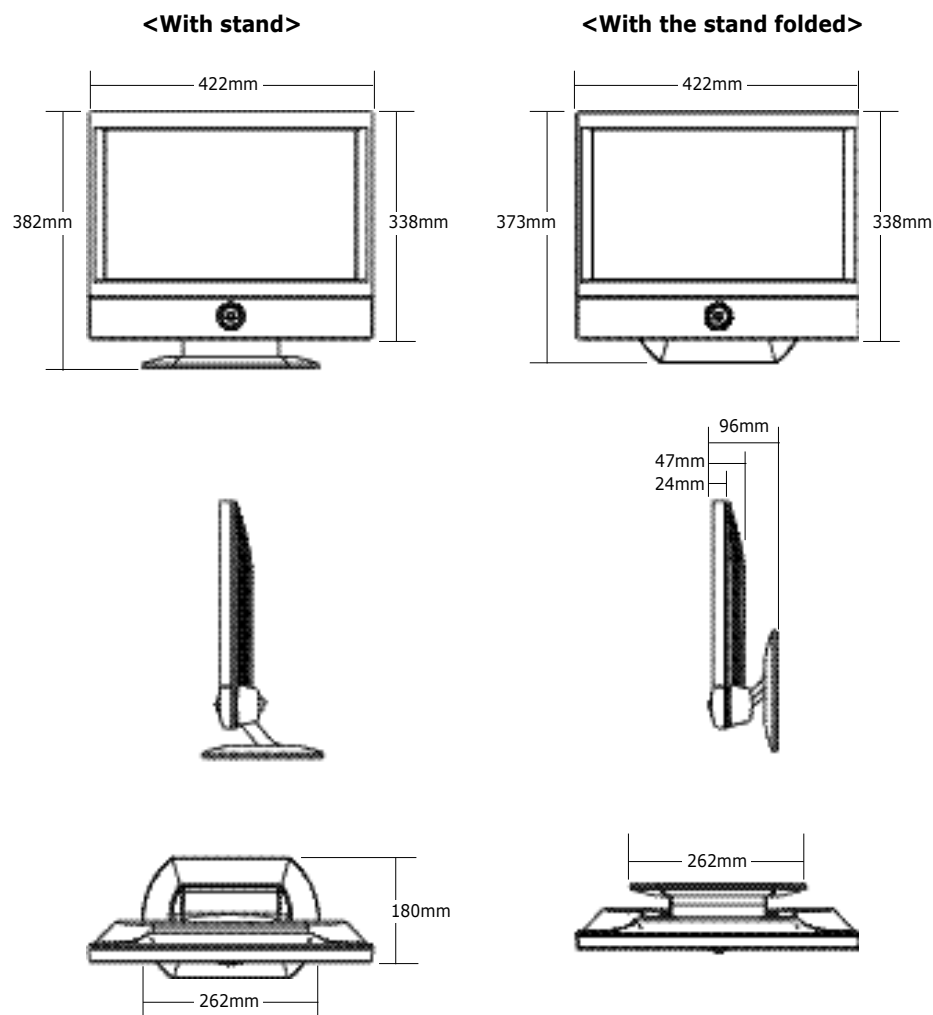
You should verify:

- 1) Resolution (1280*768 is the best setting).
- 2) Vertical frequency (60 Hz is the best).
- 3) That the image signal input is set as PC.

<Note>

- * If your PC does not support resolution 1280*768, please use it after upgrading the PC graphic card to the newest driver. If your graphic card cannot support resolution 1280*768 60Hz, please use your PC in the resolution 1024*768 or 1280*1024.

SIZE



- * Weight : around 5.8kg (Net) / around 7.8kg (Gross)
- * The present unit can bend backward up to 15 degrees (Tilt Angel)

Specification

1.Specification

Design and all specifications are subject to change without notice.

Product Name		17" Wide TFT-LCD TV
LCD	Type	a-Si TFT-LCD
	Screen Size	17" Wide (diagonal length)
	Pixel Pitch	0.291mm x 0.291mm
	Contrast Ratio	400 : 1(Typ.)
	Luminance	450 cd/m2
	Active Display Area	372.48 mm (H) x 223.49 mm (V)
	Viewing Angle	L/R:75°/75°, High/Low:50°/ 70°D
	Interface	LVDS
TV receiving channels		VHF:Channels 2~13 UHF:Channels 14~69
		Cable : Channels 1, 14~125
TV broadcasting system		NTSC-M mode
Audio Output		MAX 5W x 2 / Stereo
PC Monitor	Horizontal Frequency	30 ~ 61 kHz
	Vertical Frequency	56~ 85 Hz
	Colors	16.2M colors (6bit + FRC 2bit)
	Maximum Resolution	WXGA : 1280(H) x 768(V)
	Other Resolution	XGA, SVGA, VGA
Power Supply Adapter	Input	AC 100V~240V, 50~60Hz
	Output	DC 12V
Power Consumption	Maximum	< 40W
	Power Saving/OFF	< 5W
Power Saving Mode		VESA DPMS

- * The present home appliance is certified and approved by EMC/EMI and can be used in all places including residency area.

2.The Standard Signal Mode for PC Monitor

If the signal from the system corresponds to the standard signal mode, the screen is adjusted automatically. However, if the signal discords with it, the screen may go blank with the power LED on or display <Out of Range> error message.

Refer to the display card manual and adjust the screen as follows.

Resolution (H x V)	Horizontal Frequency(KHz)	Vertical Frequency(Hz)	Clock Frequency(MHz)	Sync Polarity (H/V)
640 x 480	31.469	59.94	25.175	- / -
640 x 480	35	66.66	30.24	- / -
640 x 480	37.861	72.809	31.5	- / -
640 x 480	37.5	75	31.5	- / -
720 x 400	31.469	70.087	28.322	- / +
800 x 600	37.879	60.317	40	+ / +
800 x 600	48.077	72.188	50	+ / +
800 x 600	46.875	75	49.5	+ / +
1024 x 768	48.363	60.004	65	- / -
1024 x 768	56.476	70.069	75	- / -
1024 x 768	60.023	75.029	78.75	+ / +
1280 x 768(the best)	47.712	60.015	80.136	- / +

* The table of standard signal modes presented above shows only primary mode suitable for each resolution level concerned. In most of the cases, the resolution degrees up to WXGA (1280*768), whether they are included in the table or not, are adjusted automatically to their best suitable signal mode without additional adjustment by PC graphic card. If the resolution is not adjusted automatically, please set graphic card's output mode to signal mode.

* If your PC graphic card does not support resolution 1280*768, please reinstall it by downloading the newest driver from graphic card manufacturer and setting it to resolution 1280*768, vertical frequency 60Hz, color 16 or 24 bites.

* The present unit has Plug and Play function. The computer perceives the monitors as "Basic Monitor", "Plug and Play Monitor" or "LCD Monitor".

Troubleshooting

If the TV seems to have a problem, follow the list of possible problems and solutions presented below. If none of these troubleshooting tips applies, call your nearest service center.

1. TV Troubleshooting

- Poor picture or sound quality
 - Check all wire connections & adjust the antenna.
 - In the areas of poor TV reception conditions or of long distance from TV stations, you can have quality problems in the image and sound received.
- No picture or sound
 - Make sure that the TV is plugged in and check the antenna connections.
 - Check its input source such as PC, TV, Composite, S-Video.
- Screen with lines or unstable image
 - Check if there is an appliance in use disturbing electric waves.(radiophone, hair drier, electric drill, etc.)
 - Do fine tuning by manual adjustment.
- Unable to receive certain channels
 - Check if the channel is set correctly.
 - Redirect the antenna by moving it right and left.
- Picture without sound
 - Press MUTE button
 - Control the volume

2. PC Monitor Troubleshooting

- No image on the screen
 - The VGA cable should be connected completely to the TV and computer.
 - The display card should be inserted fully in its slot.
 - Power switch of both PC and TV should be turned on.
 - Make sure that a supported mode has been selected on the display card or system in use.
 - Modify the graphic card mode properly referring to the table of standard signal modes presented in the previous page.
 - Check if VGA cable pin is not bent or took off.

- Unable to turn on the equipment
 - Check if the AC cord is plugged in correctly and retry to turn on the unit.
 - Plug the monitor AC cord off the power socket. Connect the AC cord again in 10~20 minutes.
- LED on TV is red flickering without image
 - Check if the VGA cable is connected to the TV and computer correctly.
 - Check if the computer is in power-saving mode by touching the keyboard or mouse.
- Image is unstable and out of focus
 - Check if the VGA cable is connected to the computer correctly.
 - You need to readjust the image when computer display mode changes. Please readjust the image by using Auto setting or adjustment menu.
 - Check if the monitor and graphic card are compatible and if they are set at the proper refresh rate. If the characters appear distorted, please reset the refresh rate to 60Hz.
- Image size is strange
 - Please reset the image size using vertical and horizontal positions function of screen adjustment menu.
 - Please try Auto Adjust function.

Concerning services

For the product's functional trouble occurred in use, client can benefit from the warranty during one year from the date of purchase. However, all services for the troubles caused by client's erroneous use or by natural calamity will be charged even during the term of warranty validity.

Situations of charged services (client's responsibility to pay)

All services will be charged even during the term of warranty validity if requested in the situations as below

1. The product went out of order because you had put foreign objects (water, liquor, coffee, etc.).
2. The product is damaged or out of order because you dropped it or the unit was exposed to a shock.
3. The product's external cover is harmed or degraded by organic substances such as thinner or benzene.
4. Some accessories are lost or damaged due to the client's voluntary disassembly of the product.
5. The product fell out of order due to the accessories used other than those supplied by manufacturer. (adapter, etc.)
6. The product fell into trouble due to the wrong voltage applied.
7. The product fell out of order after being serviced by someone other than our client service staff.
8. Natural calamity (thunderbolt, fire, storm, flood, gas, sea wind, earthquake, etc.) caused trouble to the product.
9. User did not respect the present instructions manual and caused trouble to the product.
10. The product has trouble due to client's other faults.
11. If the purchase date cannot be recognized, we count the quality guarantee term from the first day of the third month after the date of manufacture.

The places of nails to install the unit on the wall

