

Sarvice Center Phone Number - 080-777-1550
 Information for Monitor - 02-3462-1550



Creating the affluent cyber world construction the netropolis and web community









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Communication 2002 to furnished the All softs the anged

TOPHEAD I Dong Praminations Building 27 so theoge-drog Boom-pa. Secul

If you need acme information on using our monitor or on early may produce, contrast our excelled central Mon-Fri : 06:30-19:00, Sat : 08:10-14:40; (exclusing sundays and holidays) Never fail to reed 'Salety Precautions' before using and use your monitor correctly!

Service Carter Representative Prome Number (Domestin)
069-777-1550 (Require no D.D.D. number)
0698 Bernder Intriprewa kapeanic comContact as Price need service due to mathericies of the product.
We will always provide kind and accurate service as soon as possible.

II Dong Pharmacoulcuss Building 21"
50 Yangle-dong
50 Yangle-dong
500-00-01, Sexui
Tal- 00-3462-1500
Fax: 00-3462-1500
Internet: http://www.tophead.com

TH150AV is the registered trademark of Tophead Co.



Note for User:

This equipment has been tested and found to comply with the limits for a electromagneto compatibility, and can be used in all area, including a residential installation. The equipment with electromagnetic compatibility in residential installation means it can be used in both the residential area and the commercial area.

Information to user: PART 15, PARAGRAPH 15.21 AND 15.105(b) Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

# FCC Notice

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

determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

interference received, including interference that

may cause undesired operation.

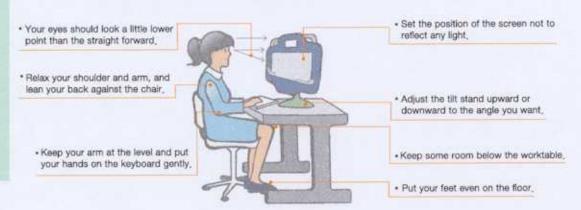


## User's Guide

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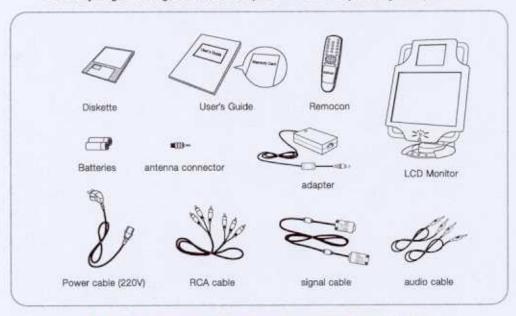
#### Correct Posture of Monitor User

- · Set the monitor in the convenient place and adjust the tilt stand upward or downward to any angle you want.
- As your eyes get tired if using the monitor for a long time, take enough rest (10 minutes per hour) while working with the monitor.
- Refering the following figure, sit comfortably in front of the monitor.



## **Checking Package Contents**

After opening the box, check the package contents that are supplied with the monitor, and if anything is missing, contact to the representative where you bought the product.



The design and components of the above product may be changed without any prior notification to improve the performance of the product,

#### **Features**

#### · Employs one-body dual display first in the world

- This is a dual display monitor in which you can select PC, TV, and Video signals in the main screen and, TV and Video signals in the sub-screen at the same time through one monitor.
- It can output up to three display signals by using the PIP function. For example, you can see
  TV in the sub-screen and PC+TV or PC+Video in the main screen. In addition, you can select audio
  signals you want among display signals.
- The customized icon feature enables you use computers more easily and conveniently.

#### Concise and graceful design

On the whole, it provides elegant design and screen with smooth curve.

#### Ergonomic monitor

You can adjust the angle of inclination with the tilt stand as you want.

#### TV Display

You can see TV with TV tuner while using PC.

## **Safety Precautions**

- Be sure to observe 'safety precautions' that help users use the product safely and correctly to lengthen the life of the product and to prevent safety accident.
- Precautions are divided into 'Warnings' and 'Cautions', and the meanings of 'Warnings' and 'Cautions' are as follows:

#### CAUTIONS

If you don't observe the instruction, it is likely to incur injuries or damages to the product that are not serious.



#### WARNING

If you don't observe the instruction, it is likely to incur serious injuries.



 Note: If the malfunction of the product is incurred due to the consumer's negligence, you should be charged for the service even if it is under the warranty.

### A Cautions

After reading this user's guide, keep the guide near the monitor, so that you can refer it when you need it at any time.

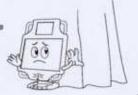
Place the monitor at a certain distance (above 10cm) from the wall, so that it may be well-ventilated.

It may cause the damage of the product due to increase of the internal temperature,



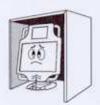
Be sure that the ventilation opening is not blocked by tablecloth or curtains.

It may cause the damage of the product due to increase of the internal temperature.



Do not set the monitor in such places as bookshelves where it is not well-ventilated.

It may cause the damage of the product due to increase of the internal temperature,



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

If you disconnect it by pulling the cord, some of core wire in the cord may be cut, in such case it may cause heating or fire,

Do not set the monitor in such places where the shelf is vibrating or tilted.

If it is dropped, the product may be damaged or the operator may be injured.



When cleaning the surface of LCD panel, unplug the power cord and wipe with soft cloth. Do not wipe it with damp cloth and do not use detergent.

If moisture may soak into any opening on the surface, it may incur electric shock or serious accident.





## Marnings

This is for safe usage of the product and prevention of dangers or loss of property. So, be sure to read and observe it carefully.

Never dissemble or reconstruct the monitor without qualified servicemen. If you want to check, calibrate, or repair the monitor, contact our agent or service center.

It may incur fire or electric shock.



Do not place such containers as flower vase, flowerpot, cups, or cosmetics, which is filled with chemicals or water.

It may soak into the product and damage the internal circuit,



Never insert anything metallic such as coins, hairpins, or ironware, and inflammables such as matches into the monitor openings.

Doing so may create the danger of electric shock or fire,



Plug the power cord firmly so that even the end part of the plug may not be shaken.

Unstable connection may cause fire.



Do not sprinkle water or detergent directly to any part of the body when cleaning the monitor.



When you move the monitor, never fail to switch the power off and disconnect the power cord. In addition, check that all connectors are disconnected from any external equipment, and then move the monitor.

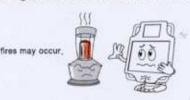
If the cord is damaged, it may cause fire or electric shock,

Never touch the power plug with wet hands.





Avoid exposing your monitor to direct sunlight or another heat source such as stove.



If smoke or strange odor is present, immediately stop using the monitor. In such case, switch the monitor off and call service center.

If you continue using the monitor, fire or electric shock may occur,



Avoid to wire the power cord near any heating appliance.



Unplug the monitor when it is going to be left unused for an extended period of time or you are going to go out.

If you left the monitor plugged into the power socket, if may cause electric shock and fire due to heating, ignition, or deterioration of insulation.



Never use your monitor if the power cord has been damaged or is plugged loosely into the power socket,

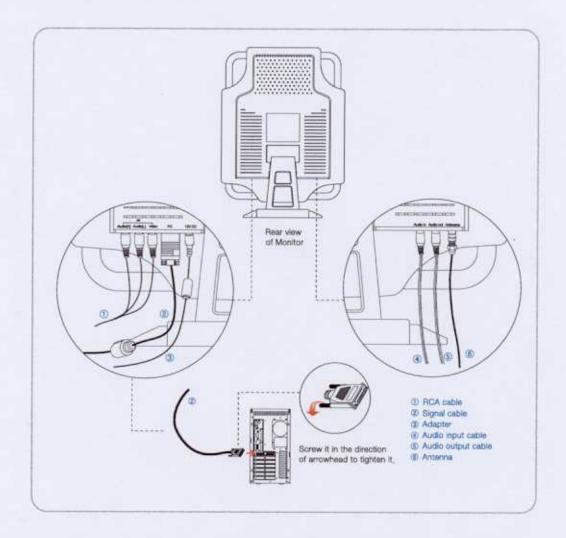
It may cause electric shock or fire



## Installation and Connection

#### (1) To connect with computers

Make sure the computer, the monitor, and peripherals are turned off, and then connect the signal cable and the power cord as shown below.



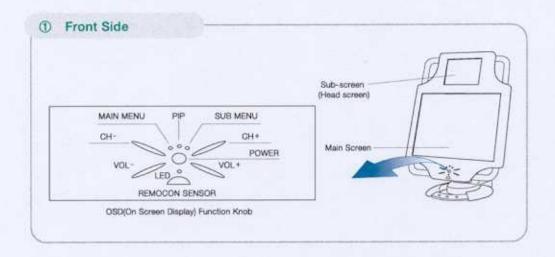
If the audio-out port of your PC sound card supports both speaker-out and line out, set it to line out by using the jumper of the card or any other program. (Refer to your sound card manual)

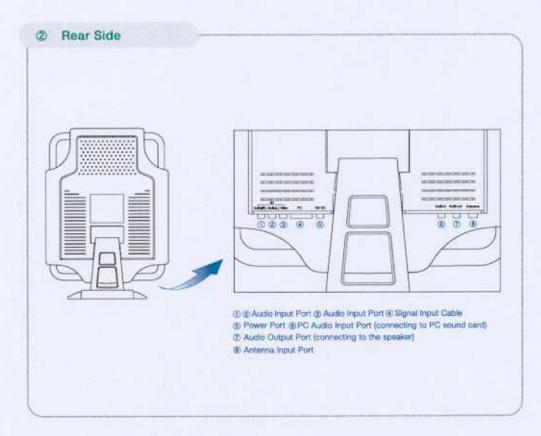
(If the audio-out port of your PC sound card supports only speaker-out, down the volume of PC sound.)

#### # Note

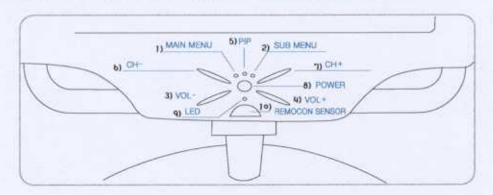
- Line out port: Port connecting to the speaker in which an amp is included.
- Speaker-out port: Port connecting to the speaker in which an amp is not included,
- Be sure to check the connecting port of PC sound card before connecting it,

#### (2) Names and Description of Each part





#### (3) Name and functional description of buttons in OSD Function Knob



#### 1) MAIN MENU (Main Screen)

Used to open and exit OSD MENU of MAIN (15") screen (cannot open this menu with SUB OSD functions simultaneously)

#### 2) SUB MENU (Sub Screen)

Used to open and exit OSD MENU of SUB (6.4") (cannot open this menu with MAIN OSD functions simultaneously)

#### 3) VOL -

Used to down the function level of OSE MENU to the level you want (decrease the value). In case of TV or Video, it decreases the volume.

#### 4) VOL +

Used to up the function level of OSE MENU to the level you want (increase the value). In case of TV or Video, it increases the volume.

#### 5) PIP (Picture in Picture)

If the 15" screen is used for PC output, you can see TV or Video signals in one screen.

#### 6) CH -

Used to move the icon of OSD MENU toward left and select it. In case of TV, it downs the channel.

#### 7) CH +

Used to move the icon of OSD MENU toward right and select it. In case of TV, it up the channel.

#### 8) POWER

Used to on/off the power.

#### 9) LED

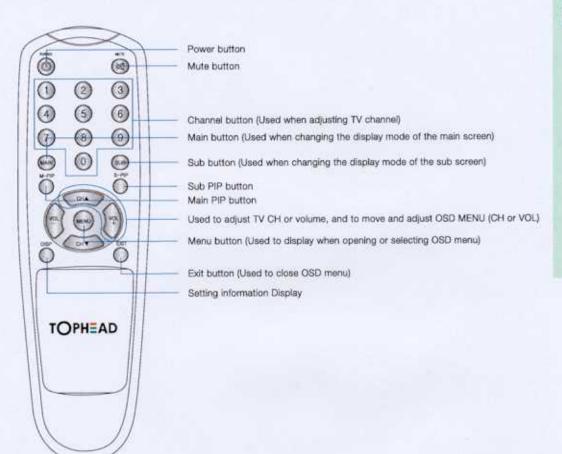
It lights in green during normal operation and in amber during abnormal operation.

#### 10) REMOCON SENSOR

It is the sensor screen for remote control.

## **Description and Usage of Remocon**

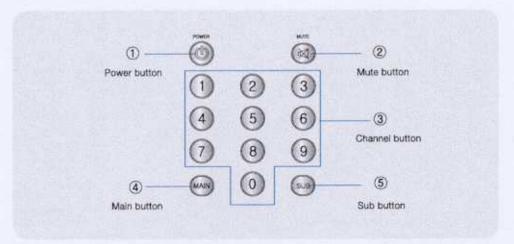
#### (1) Name of remocon buttons

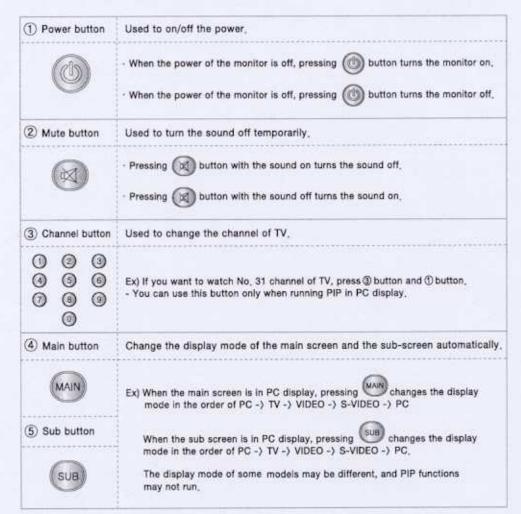


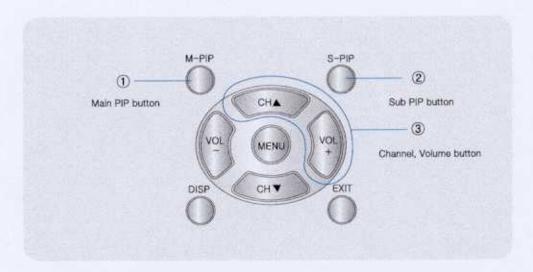
#### The remocon doesn't work

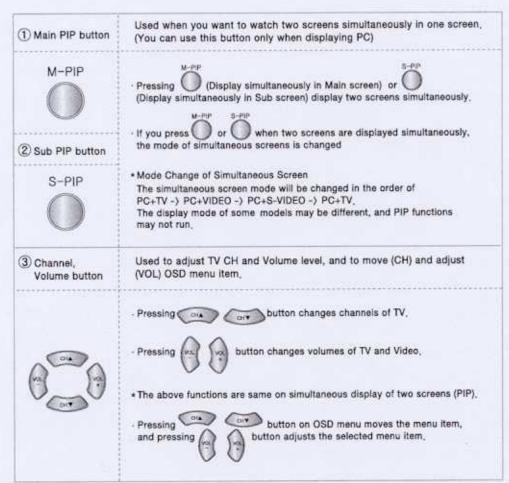
- 1. Is the polarity of the battery correct?
- 2. Is not the battery consumed completely?
- 3. Is the power supplied correctly?
- 4. Is the power cord connected correctly?
- 5. Is the special fluorescent light or neon sign lit around it?

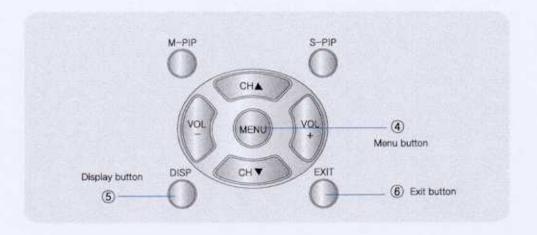
#### (2) How to use the remocon

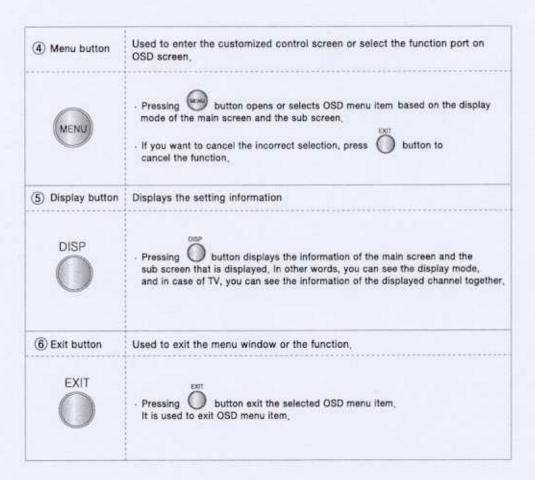












## TM150AV - 15"OSD MENU (Key or Remocon)







TV/Video Mode

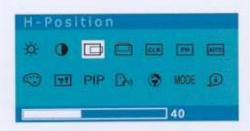
#### (1) PC Mode

Adjusting Brightness and Contrast





- Open OSD with Main key, and move the icon to Brightness or Contrast with Channel key, and set the brightness and contrast with Volume key.
- After finishing the adjustment, the adjusted value will be stored automatically.
   Pressing Main key once again will exit the Menu.
- Adjusting H-position and V-Position of the screen





- Open OSD with Main key, and move the icon to H-Position or V-Position with Channel key, and set the horizontal position and the vertical position with Volume key.
- After finishing the adjustment, the adjusted value will be stored automatically.
   Pressing Main key once again will exit the Menu.

#### 3 Adjusting H-size of the screen



- · Open OSD with Main key, and move the icon to CLOCK with Channel key, and set the clock with Volume key.
- After finishing the adjustment, the adjusted value will be stored automatically.
   Pressing Main key once again will exit the Menu.

#### Adjusting Phase



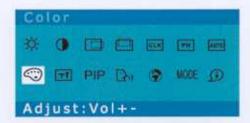
- · Open OSD with Main key, and move the icon to Phase with Channel key, and set the phase with Volume key.
- · This is used when there is noise in the screen or the character line is overlapped, and after adjusting clock.
- After finishing the adjustment, the adjusted value will be stored automatically.
   Pressing Main key once again will exit the Menu.

#### S Adjusting Auto-config



- Open OSD with Main key, and move the icon to AUTO with Channel key and press Volume key.
   Now, Auto-config will start.
- Adjusts the top/down and right/left position of the screen, the frequency, and the phase automatically to make the optimum condition.
- After finishing the adjustment, the adjusted value will be stored automatically.
   Pressing Main key once again will exit the Menu.

#### Adjusting Color



 Open OSD with Main key, and move the icon to COLOR with Channel key and press Volume key. Now, the Color adjustment Sub Menu appears.



· If you move the icon with Channel key and press the Volume key, you can open the color setting.



- · You can adjust any color by moving the icon with Channel key and using the Volume key.
- After finishing the adjustment, the adjusted value will be stored automatically.
   You can exit the Menu by pressing Main key once again, or can move to the main menu by moving the icon to EXIT and pressing Volume key.

Adjusting Special Color



 Open OSD with Main key, and move the icon to COLOR with Channel key and press Volume key. Now, the SPECIAL adjustment Sub Menu appears.



The Video level is the input signal level of Video for adjusting contrast. If you press Volume key, the status of the screen will be changed with "0.7V" / "1.0V" displayed in the bottom of the Menu, and the corresponding information will be stored.

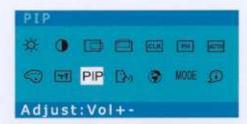


It is to adjust the frequency in MS-DOS mode. In case of MS-DOS, if you press the Volume key, the size of the screen will be changed with "640M" / "720M" displayed in the bottom of the Menu, and the corresponding information will be stored.

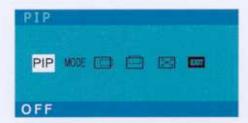


This is to adjust the sharpness of the screen that is not 1024X768, and if you press the Volume key
the sharpness will be adjusted and the corresponding information will be stored.

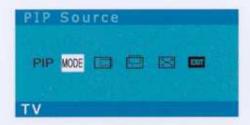
#### Adjusting PIP



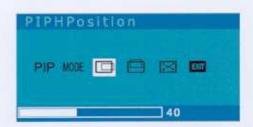
Open OSD with Main key, and move the icon to PIP with Channel key and press Volume key.
 Now, the SPECIAL adjustment Sub Menu appears.



 This is to on/off the PIP screen. If you press Volume key, the PIP screen will appear or disappear with "ON/OFF" displayed in the bottom of the Menu.



 This is to change the input source of PIP screen. If you press the Volume key, the PIP screen will be changed with "TV/Video" displayed in the bottom of the Menu.





 This is to change the position of the top/down or right/left of the PIP screen. If you press the Volume key, you can set the PIP screen at any position in top/down or right/left.



 This is to change the size of the PIP screen. If you press the Volume key, the size of the PIP screen will be changed with "SMALL" / "LARGE" displayed in the bottom of the Menu.

#### Selecting Audio Source



- Audio out is basically based on the mode of the Main (15") screen. However, you can change it if you want to hear other kinds of audio.
- Open OSD with Main key, and move the icon to Audio Source with Channel key and press Volume key.
   Now, the Audio Source adjustment Sub Menu appears.



Move the icon to the corresponding audio source with Channel key, and press Volume key.
 Now, you can hear the corresponding sound through audio output.

#### Selecting Language





Open OSD with Main key, and move the icon to Language with Channel key and press Volume key.
 Now, the corresponding language is indicated in the bottom of the menu, and the language that is displayed in OSD will be changed and stored.

#### ® Selecting Source





Open OSD with Main key, and move the icon to Source with Channel key and press Volume key.
 Now, the Source adjustment Sub Menu appears.



Move the icon to the corresponding source with Channel key, and press Volume key. Now, the corresponding screen will appear in the Main screen.

#### 1 Information



 Open OSD with Main key, and move the icon to Information with Channel key. Now, the Resolution / Vertical frequency of the current mode will be displayed.

#### (2) TV/Video Mode

Adjusting Brightness and Contrast of Video Mode





- Open OSD with Main key, and move the icon to Brightness or Contrast with Channel key. And then using Volume key, set brightness and contrast.
- After finishing the adjustment, the adjusted value will be stored automatically. You can exit the Menu by pressing Main key once again.

#### 2 Adjusting horizontal or vertical position of the screen





- Open OSD with Main key, and move the icon to H-Position or V-Position with Channel key. And then
  using Volume key, set the horizontal position and the vertical position.
- After finishing the adjustment, the adjusted value will be stored automatically. You can exit the Menu by pressing Main key once again.
- 3 Adjusting Saturation (SA) and Hue (HU) of the screen





- Open OSD with Main key, and move the icon to SA or HU with Channel key. And then using Volume key, set saturation and hue.
- After finishing the adjustment, the adjusted value will be stored automatically. You can exit the Menu by pressing Main key once again.

Adjusting Channel Value in TV Mode



 Open OSD with Main key, and move the icon to Channel Menu. And then using Volume key, Open the Channel adjustment Sub menu.



- · This is used to store the current TV Channel into the memory.
- You can select Volume key by moving the icon with channel key.



- . This is used to delete the current TV channel from the memory.
  - You can select Volume key by moving the icon with channel key.



- · This is used to store into the memory the channel that you can see at that time.
  - You can select Volume key by moving the icon with channel key.

## TM150AV - 6.4" OSD MENU (Key or Remocon)

- (1) Description of Menu
- **1 TV SOURCE**

TV SOURCE

→ ADD/ERASE Add AIR/CABLE Ca AUTO SCAN EXIT

- ADD/ERASE: If you press Volume key after selecting the menu, the memorized condition of the current selected channel is changed.
- AIR/CABLE: If you press Volume key after selecting the menu, the condition of the broadcasting is changed to Air or Cable (ca).
- AUTO SCAN: If you press Volume key after selecting the menu, automatic channel setting starts.
   If you press Sub Menu while setting it, automatic check is stopped.
- · EXIT : If you press Volume key after selecting the menu, it exits from the menu.
- **② INPUT SOURCE**

INPUT SOURCE

→ TV On VIDEO Off EXIT

- If you watch TV currently, TV is On and VIDEO is Off. If you watch VIDEO currently, TV is Off and VIDEO is On. If you press Volume key after selecting the menu that is Off, the selected SOURCE is changed to On and it is displayed on the screen.
- · EXIT: If you press Volume key after selecting the menu, it exits from the menu.

#### **3 DISPLAY SOURCE**

· EXIT

DISPLAY SOURCE

→ BRIGHT 50 CONTRAST 50 COLOR 50 EXIT

BRIGHT : After selecting the menu, adjust the brightness of the screen by using Volume key.

· CONTRAST: After selecting the menu, adjust the contrast of the screen by using Volume key.

· COLOR : After selecting the menu, adjust the color density of the screen by using Volume key.

: If you press Volume key after selecting the menu, it exits from the menu.

## Other Information

## (1) Checkpoints when reporting malfunctions

Check	Doing this	Note
1. There is no screen image.		
Is the power cord of the monitor disconnected?	Plug the power cord in the power socket correctly,	
Is the power indicator off?	Push the power button.	
is the power on and the power indicator green?	Adjust brightness and contrast again.	
is the power on and the power indicator yellow?	The monitor is using the power management system. Try to move the mouse or press a key in the keyboard.	
is a message 'CHEKC SIGNAL' displayed?	Check to see that the SIGNAL CABLE connector is connected correctly to the VGA card,	
is a message 'Out of Frequency' displayed?	The signal transmitted from PC (Video card) exceeds the range of horizontal or vertical frequency of the monitor, Refer to the (Product Specification) section in this Guide and reset the frequency.	
2. The colors of the screen is abno	ormal	
is the colors of the screen discolored (to 16 colors)?	Reset the number of colors to above 16-bit color, In Window/98/NT, [Control Panel] - [Display] - [Settings] - [Colors]	
Is the colors of the screen unstable or Does it look like monochrome colors?	Check the connection of the signal cable and connect it correctly again. Reinsert the video card on PC. (Refer to the manual of the video card.)	
Is there some specks in the screen?	There may appear some color specks (red, green, white, and black) on the screen.  This is natural in the LCD panel, in other words, it is not a defect and unrelated with the performance of the monitor.	
3. After connecting the monitor, th	ne phrase "unknown monitor" is disp	layed
Have you installed the driver for the monitor?	Install the driver for the monitor by using the monitor driver diskette supplied with the product, or using our homepage in the internet (http://www.tophead.com).]	
4. The characters are too light or t	there is horizontal noise.	
Have you performed PHASE adjustment well?	Run AUTO function in the MENU screen, Then it is adjusted automatically to the optimum screen for the current mode, If you are not satisfied with the adjusted TOP/DOWN, adjust the PHASE in the OSD menu manually.	
- Is the screen set to the optimum condition?	The optimum resolution of this product is 1024 X 768@60Hz. If you set it to SVGA(800 x 600) or else, the line of the character may look dimmed or uneven.	

### (2) Specification of Product

		15*(LCD)	6,4"(LCD)
LCD	Screen Size (diagonal length of visible screen)	380,1mm	163,2mm
	Pixel Pitch	0,297(width) x 0,297(length)	0,136(width) x 0,136 (length)
	Viewing angle (CR) 10)	top 407/down 607/left 607/right 607	top 15*/down 357left 55*/right 55
Maximum Color of Display		16,777,216 colors	
TV/VIDEO	image signal audio signal Video format	NTSC Stereo CVBS	
Video signal	Horizontal frequency Vertical frequency Recommended resolution Sychronizing format	31-61 KHz 56-75Hz 1024x768@60Hz Seperate	
Signal Input Cable	Detachable	15pin D-Sub, RCA, TV Tuner	
Power	nominal voltage nominal current consumption	DC12V(4,5A) 54W	
Product Dimension	Including Support	235,5(D) x 372(W) x 515(H)	
Weight	Body (excluding packaging) (including packaging)	5kg 8,6 kg	
Operational condition	Temperature Humidity	10 C - 35 C 10% - 80%	

This specification may be changed without any prior notification for the improvement of the product,

#### Standard Signal Mode

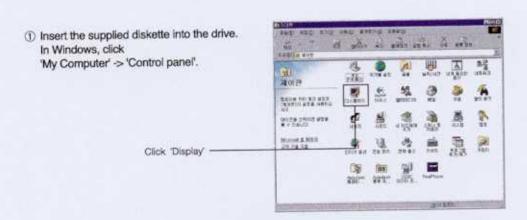
NO	RESOULTION	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
1	VGA 640x350	31,47	70
2	VGA 720x400	31,47	70
3	VGA 640x480	31,47	60
4	MAC 640x480	35,00	67
5	VESA 640x480	37,86	73
6	VESA 640x480	37,50	75
7	VESA 800x600	34,16	56
8	VESA 800x600	37,88	60
9	VESA 800x600	48,08	72
10	VESA 800x600	46,88	75
11	MAC 832x624	49.72	75
12	VESA 1024x768	48,36	60
13	VESA 1024x768	56,48	70
14	VESA 1024x768	60,02	75

**AC Adapter** 

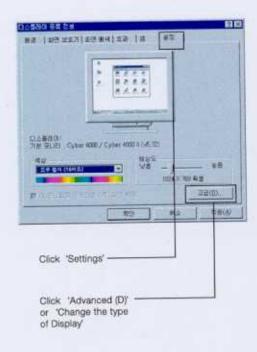
nominal input: AC110~220V 50/60Hz
nominal output: DC12V = = 4,5A () (Be sure to use only the product we supplied.)

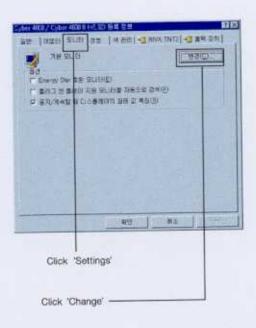
## Installing drivers for the monitor

If you install the driver for the monitor, the resolution and frequency is set for the monitor and you can work in the sharp screen.



② This may be different according to the type of the video card.





3 If 'Select device' window appears, click 'Have disk'

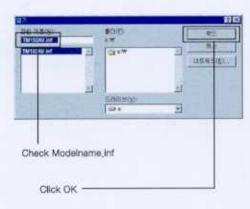






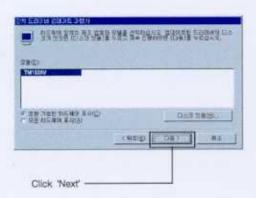


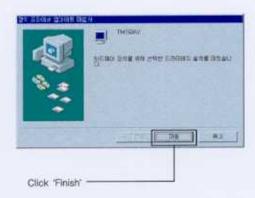
(5) This may be different according to the type of the video card in PC.





⑤ If your model doesn't exist in the list, select <Display all hardware>. And then select your model and press 'OK'. (For example, in case you used a different monitor)





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