

User's Guide

H750D(B17DF)

TFT-LCD Monitor

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■ Regulatory Information - 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.

Caution

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

This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

As an ENERGY STAR partner, Hansol Electronics Inc. has determined that this product meets energy Star guidelines for energy efficiency.

Notice

The information contained in this document is subject to change without notice.

- Canadian Notice

- Avis Canadien

- Energy Star

■ Introduction

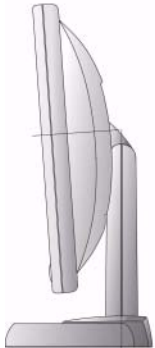
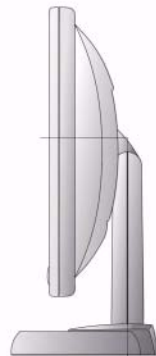
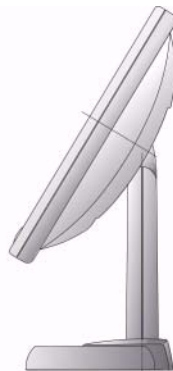
- Package

Congratulations on your purchase of this top quality color monitor!
 The items illustrated below are contained in the carton.
 First, be sure that your carton includes all of them.
 If any items are missing or damaged, please contact your local dealer or supplier.

				 UK  U.S./Canada  Europe  Australia  Korea
LCD Monitor	Signal Cable (Analog)	Stereo Cable (Option)		
				
Warranty Card	CD (User's Guide & etc)	Signal Cable (DVI)		

- The range of control Angle

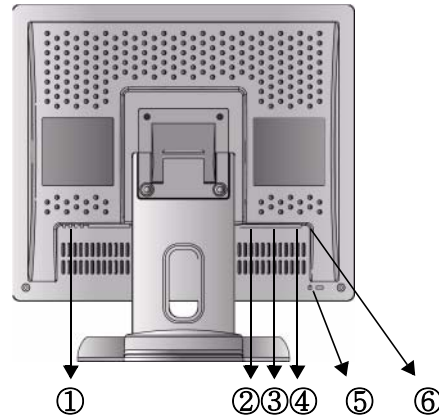
How to Adjust the Stand

		
▲ Forward 3°	▲ Default	▲ Backward 30°

■. Introduction

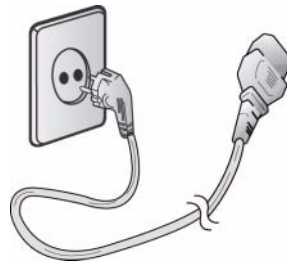
- Connection to Signal Source

Basic Connection



- ① Port for AC power cable.
- ② Port for Audio cable from audio source.
- ③ Port for Head Phone or External Speaker.
- ④ Port for signal cable from DVI signal source.
- ⑤ Kensington Lock.
- ⑥ Port for signal cable from analog signal source.

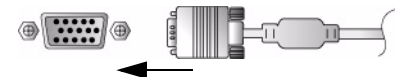
<Power Source Connection>



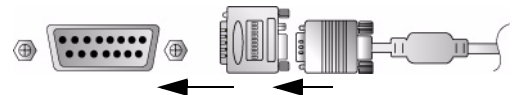
1. Use 220V or 110 V.(Free Voltage)
2. Connect monitor and Signal Source via Signal cable.
3. Power on the monitor and computer.
4. Connection is finished.

<Signal Cable Connection>

■ General

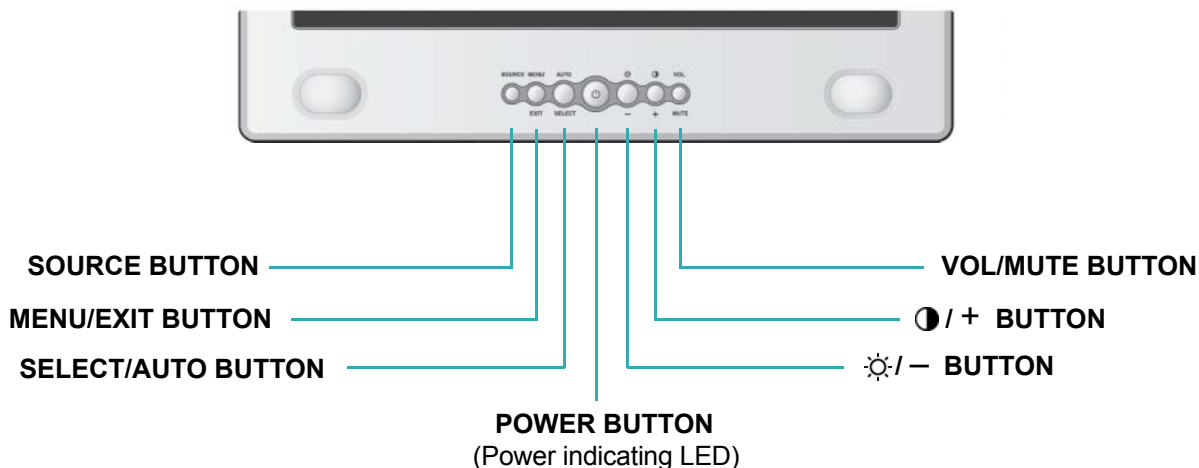


■ For Macintosh



Adapter for Macintosh(Optional)
Refer to the table on the rear side of the optional Macintosh adapter and adjust DIP switch by the resolution.

■ Controls - Front panel



- Functions

Power button

- Power button is located in the lower center of the Front Bezel.
- You can push the button to turn on/off the power.

Power Indicating LED

- Dark : Power off
- Green : Normal mode
- Green blinking : DPMS mode or Check Signal Cable mode.

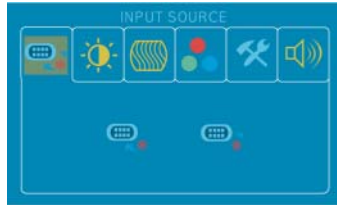
On Screen Display(OSD) Function Button

OSD buttons on the front of bezel perform the following functions.

- SOURCE : Press this button to change Analog/DVI display.
- MENU/EXIT : Press this button to display menus. if you press this button when OSD is displayed, you can switch display to the previous menu and exit menu.
- SELECT/AUTO : Press this button, when OSD is not displayed, to perform automatic setting.
When OSD is displayed, You can select icons.
- POWER : Power button.
- + / ● , - / ☀ : By pressing these button when OSD is displayed, You can move cursor into the menus which you want. After press the SELECT button, you can change gauge level or select submenus.
When OSD is not displayed, you can adjust brightness or contrast.
- VOLUME/MUTE : Press this button for volume control. When Control is displayed, You can control mute by pressing this button.

Controls - Adjusting OSD

Input Source

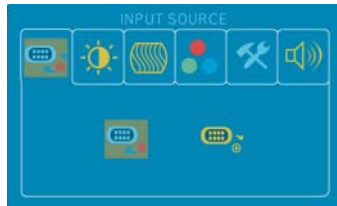


MENU → **- +** → **SELECT**

1. Press the MENU button to access main menu.
2. Use -,+ to move Input source ICON.
3. Press SELECT button into the submenu.

Digital Input

◆ Input Source Submenu

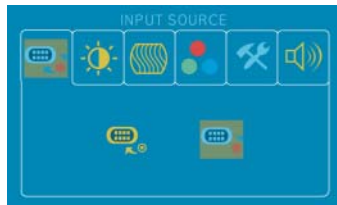


- + → **SELECT**

1. Use -,+ to move Digital input ICON.
2. Press SELECT button to select DVI display.

Analog Input

◆ Input Source Submenu



- + → **SELECT**

1. Use -,+ to move Analog input ICON.
2. Press SELECT button to select Analog display.

Brightness & Contrast

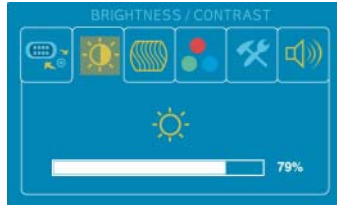


MENU → **- +** → **SELECT**

1. Press the MENU button to access main menu.
2. Use -,+ to move Brightness and Contrast ICON.
3. Press SELECT button into the submenu.

Brightness

◆ Brightness & Contrast Submenu

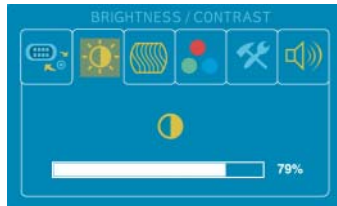


— + —→ **SELECT** —→ — +

1. Use —,+ to move Brightness ICON.
2. Press SELECT button to select it.
3. Use —,+ to adjust the brightness.

Contrast

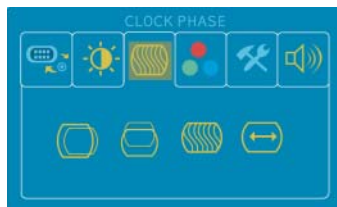
◆ Brightness & Contrast Submenu



— + —→ **SELECT** —→ — +

1. Use —,+ to move Contrast ICON.
2. Press SELECT button to select it.
3. Use —,+ to adjust the contrast.

Clock Phase

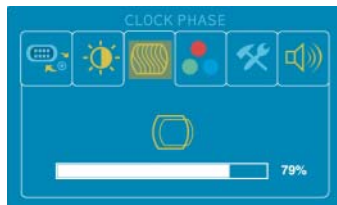


MENU —→ — + —→ **SELECT**

1. Press the MENU button to access main menu.
2. Use —,+ to move Clock Phase ICON.
3. Press SELECT button into the submenu.

Horizontal Position

◆ Clock Phase Submenu



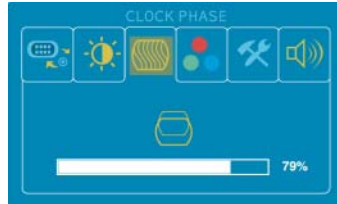
— + —→ **SELECT** —→ — +

1. Use —,+ to move H-Position ICON.
2. Press SELECT button to select it.
3. Use —,+ to adjust display left or right.

According to the characteristic of video card, control range can be changed.

Vertical Position

◆ Clock Phase Submenu



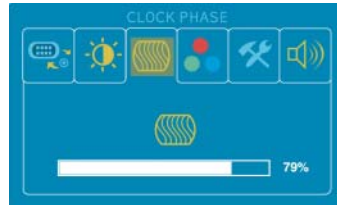
— + —→ **SELECT** —→ — +

1. Use —,+ to move V-Position ICON.
2. Press SELECT button to select it.
3. Use —,+ to adjust display upward or downward.

According to the characteristic of video card, control range can be changed.

Clock Phase

◆ Clock Phase Submenu

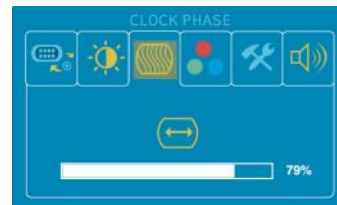


— + —→ **SELECT** —→ — +

1. Press —,+ to move Clock Phase ICON.
2. Use SELECT button to select it.
3. Use —,+ to correct fine trembling or Video noise.

Clock

◆ Clock Phase Submenu



— + —→ **SELECT** —→ — +

1. Use —,+ to move Clock ICON.
2. Press SELECT button to select it.
3. Press — or + to remove vertical noise.
(Adjusting clock phase is required after the adjustment of clock.)

Color

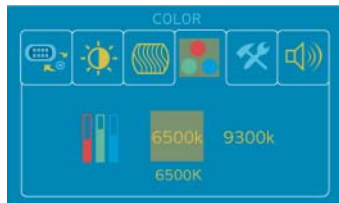


MENU —→ — + —→ **SELECT**

1. Press MENU button to access main menu.
2. Use —,+ to move Color ICON.
3. Press SELECT button into the submenu.

Preset Color

◆ Color Submenu



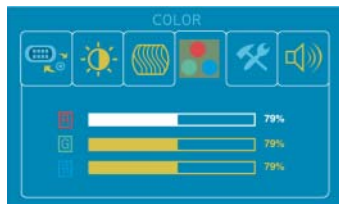
— + —→ **MENU**

1. Use —,+ to select the 6500K, and 9300K.
2. Press the Menu button to return previous state.

※ 6500K : Reddish white / 9300K : Bluish white

User Color

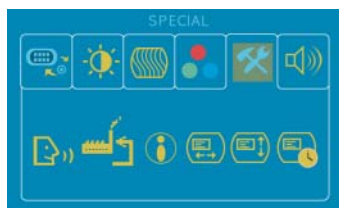
◆ Color Submenu



— + —→ **SELECT** —→ — + —→ **MENU**

1. Use —,+ to move User color ICON.
2. Press SELECT button to select it.
3. Use —,+ to Shift the color what you want.
4. Use select button to select it.
5. Use —,+ to increase or decrease each color.
6. Press the menu button to return previous state.

Special



MENU —→ — + —→ **SELECT**

1. Press MENU button to access main menu.
2. Use —,+ to move Special ICON.
3. Press SELECT button into the submenu.

Language

◆ Special Submenu

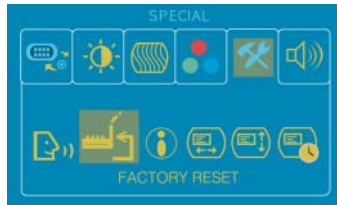


MENU —→ — + —→ **SELECT** —→ — +

1. Use —,+ to move Language ICON.
2. Press SELECT button to select it.
3. Use —,+ to select language.

Factory Reset

◆ Special Submenu



- + → **SELECT**

1. Use -,+ to move the Factory Reset ICON.
2. Press SELECT button to return to default setting.

Information

◆ Special Submenu



MENU → - + → **SELECT**

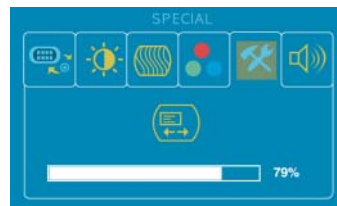
1. Use -,+ to move the Information ICON.
2. Press SELECT button to select it.

You can know display information

* According to the characteristic of video card, display information can be incorrect.

OSD H-Position

◆ Special Submenu



- + → **SELECT** → - +

1. Use -,+ to move OSD H-Position ICON.
2. Press SELECT button to select it.
3. Use -,+ to adjust OSD left or right.

OSD V-Position

◆ Special Submenu

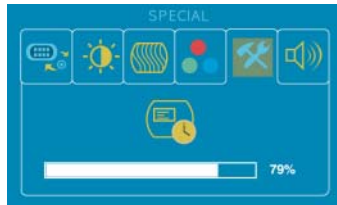


- + → **SELECT** → - +

1. Use -,+ to move OSD V-Position ICON.
2. Press SELECT button to select it.
3. Use -,+ to adjust OSD upward or downward.

OSD Time

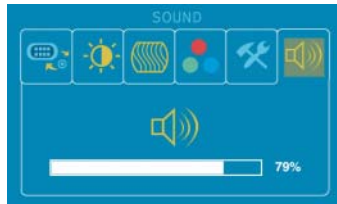
◆ Special Submenu



- + → **SELECT** → - +

1. Use -, + to move OSD Time ICON.
2. Press SELECT button to select it.
3. Use -, + to adjust OSD display time.

Sound(Optional)



MENU → - + → **SELECT or VOL BUTTON**

1. Use -, + to move Sound ICON.
2. Press SELECT button to select it.
3. Use -, + to control volume.
4. Press MENU button to return previous state.

- HOT KEY

ANALOG & DVI

- When change DVI display into Analog display, select source button located in the left.
Analog display will be showed after Analog input message.
- When change Analog display into DVI display, select source button located in the left.
DVI display will be showed after DVI input message.
- No signal input message will be displayed when video card output is not mated with monitor source.

Power Management Feature

The monitor is equipped with a power saving circuit that confirms to the world-standard Display Power Manager Signalling (DPMS) mode of Video Electronics Standard Association(VESA).
The power management feature requires that the video card of the computer should support DPMS function.

Status	LED Sign	Power Consumption
Normal mode	Green ON	Normal Power
DPMS mode	Green Blinking	1 W or Below(Analog)/ 3.5 W or Below(DVI)

DPMS with Audio(Optional)	
Mute ON	1W or Below(Analog) / 3.5 W or Below(DVI)
Mute OFF	10W or Below

No image is displayed with Green blinking.

Monitor is in power saving mode.

Use mouse or keyboard to release power saving mode.

No image is displayed without LED on.

Power cable plug must be pulled out.

Check the power plug on monitor and on the wall.

"Out of range" displayed on the screen.

This message is displayed when the signal from video card exceeds the maximum frequency of the monitor. Readjust resolution and frequency in accordance with the monitor capacity.(Refer to Standard Signal Table)

Standard Signal Table

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)	Clock Frequency (MHz)	Sync Polarity (H/V)
VGA (720 x 400)	31.469	70.087	28.322	- / +
VGA (640 x 480)	31.469	59.940	25.175	- / -
VGA (640 x 480)	37.500	75.000	31.500	- / -
SVGA (800 x 600)	37.900	60.320	40.000	+ / +
SVGA (800 x 600)	46.875	75.000	49.500	+ / +
XGA (1024 x 768)	48.363	60.004	65.000	+ / +
XGA (1024 x 768)	60.023	75.029	78.750	+ / +
SXGA (1280 x 1024)	63.981	60.020	108.000	+ / +
SXGA (1280 x 1024)	79.976	75.025	135.000	+ / +
MAC (640 x 480)	35.000	66.667	30.240	- / -
MAC (832 x 624)	49.726	74.551	57.284	- / -
MAC (1152 x 870)	68.681	75.062	100.000	- / -

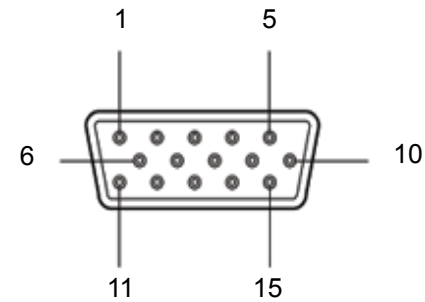
■ Specifications

ITEM		H750D(B17DF)
LCD Panel	Type	Amorphous active matrix super TFT LCD
	Screen Size	43.2cm (Diagonal)
	Maximum Resolution	1280 X 1024 @ 75Hz
	Pixel Range	0.264mm X 0.264mm
	Display Colors	16.7M Color
	Contrast Ratio	350 : 1
	Viewing Angle	70° / 70° / 60° / 60° (Left / Right / Up / Down)
	Response Time	25 msec
	Luminance	250 cd/m ²
Synchronization	Horizontal Frequency	79.9 kHz(Max.)
	Vertical Frequency	75 Hz-Analog / 72Hz-DVI(Max.)
Video Input	Video Signal	Analog RGB (0.714 Vpp) 75 ohm
	Synchronous Signal Mode	H, V Separate TTL Sync.
Power Consumption	Maximum	48 W
	Power Saving Mode	Under 1 W(Analog)/Under 3.5 W(DVI)
Contol Key	Front Part	SOURCE, MENU/EXIT, AUTO/SELECT, POWER, - / ☼ , + / ● , VOL/MUTE
Audio Output	Normal	1W / Ch
	Max	1.5W / Ch
Power Supply		Input : 100~240 Vac(50~60Hz), 0.6A
Wall Mount		VESA Standard
Safety Standard&EMI	Safety Standard	UL, CE, TUV, CB
	EMI	FCC, RRL
	Low Radiation	MPR - II
Dimension	Size and Weight	380 X 176 X 368 / 5.8Kg

Pin assignment table D-Sub Mini 15pin connector

Analog Cable

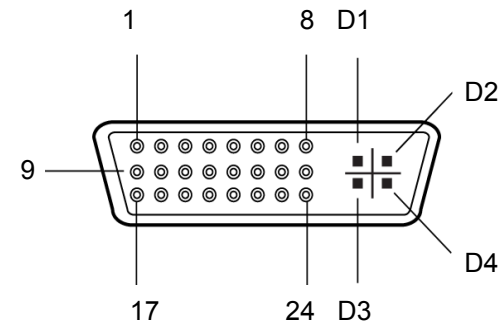
Pin No.	Assignment	Pin No.	Assignment
1	Red Video	9	5V Input
2	Green Video	10	Ground
3	Blue Video	11	Ground
4	N.C	12	SDA
5	Ground	13	H-Sync.
6	Red Video Ground	14	V-Sync.
7	Green Video Ground	15	SCL
8	Blue Video Ground		



(15 pin D-Sub)

DVI Cable

Pin No.	Assignment	Pin No.	Assignment
1	TX2 -	15	Ground
2	TX2 +	16	5V input
3	DVI input detect	17	TX0 -
4	NC	18	TX0 +
5	NC	19	Ground
6	(D_DSCL)	20	NC
7	(D_DSDA)	21	NC
8	NC	22	Ground
9	TX1 -	23	TXC +
10	TX1 +	24	TXC -
11	Ground	25	NC
12	NC	26	NC
13	NC	27	NC
14	DVI_I ground	28	NC



Troubleshooting

Problem	Solution
Power LED is dark. No picture.	■ Check the power connection (Refer to Introduction)
OSD, “check signal.” is displayed on the screen.	■ Check the computer power is on.
Message, “check cable.” is displayed on the screen.	■ Check the signal cable between monitor and computer. (Refer to Introduction)
Screen looks to be run down.	■ Perform Auto-config.
Screen is not clear.	■ Remove attaches to the signal line(Video extension cable and others) and switch on. ■ Perform Auto-config. ■ Adjust clock and PHASE.
Display is unstable and trembling.	■ Check the resolution and frequency of computer and video card, and set up again refer to the current monitor mode and standard signal mode table.
Color is irregular.	■ Adjust COLOR at User Mode in OSD Color Menu.
Double images or ‘ghosts’.	■ Check the resolution and frequency of computer and video card, and set up again in reference to the current monitor mode and standard signal mode table.
Picture is dark.	■ Adjust COLOR at User Mode in OSD Color Menu.
Picture is biased or cut or too wide.	■ Perform Auto-config.
Power LED turns into Green blinking.	■ Monitor is in DPMS mode.
No SOUND.	■ Check the voice signal connection code or adjust volume.

User's Guide

TFT-LCD MONITOR



Visit for more Information www.hansollcd.com

THE NEW LEADER
IN DIGITAL IT

■ Table of Contents

■ Introduction - Good Posture Guide

Introduction

Good Posture Guide	2
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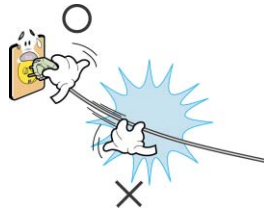
- * Place the monitor to face the user and then adjust the monitor angle.
- * Take a break(for about 10 minutes) at every hour during the work with monitor.
- * Refer to the following figure to take the correct posture



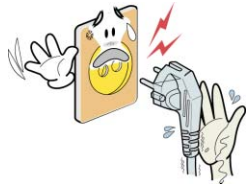
- Look down the monitor below the horizon.
- Adjust the monitor to prevent reflection.
- Relax shoulders and arms, and sit back on the chair.
- Adjust the monitor stand to acquire required angle.
- Maintain the arms horizontally and place hands softly on the keyboard.
- Keep feet flat on the ground.

■ Introduction - Safety information

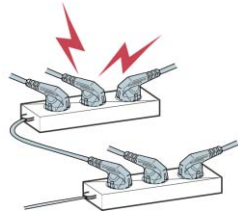
To prevent damage or loss, please read this warning carefully.



- When connecting/disconnecting the plug, pull out the plug itself, and never pull the cord to prevent fire caused by short.



- To prevent electric shock, do not connect/disconnect the plug with wet hand.



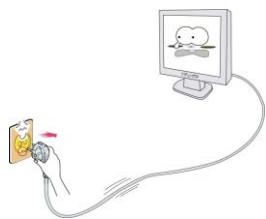
- To prevent fire, do not connect a large number of equipments in a single line.



- If you see smoke or smell something burning, stop using the unit, switch off the power, pull out the plug, and then contact your local service station.



- To prevent fire and electric shock, pull out the plug in case of thunder and lightening.



- Install the monitor near an outlet that you can reach easily. Disconnect the product by grasping the plug firmly and pulling in from the outlet. Never disconnect it by pulling the cord.



- Slots and openings in the cabinet are provided for ventilation; these openings must not be blocked or covered. Never push objects of any kind into cabinet slots or other openings.



- Never insert anything metallic into the monitor openings. Doing so may create a danger of electric shock



- To prevent fire and electric shock, do not try to take the monitor apart or repair it yourself. Contact your local service station or customer service center for inspection, modification or repair.

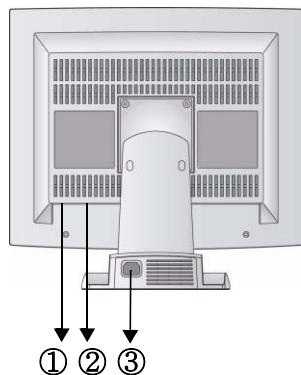


- Unplug the monitor from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp, lint-free cloth for cleaning.

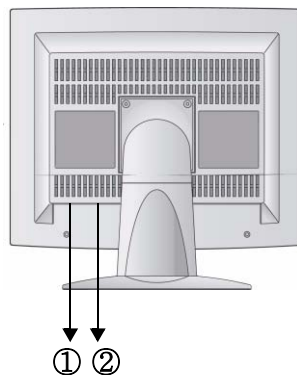
■ Introduction

- Connection to Signal Source

Basic



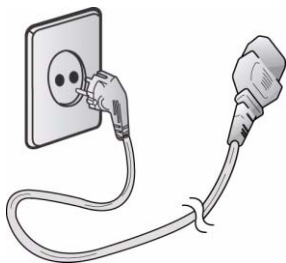
Option



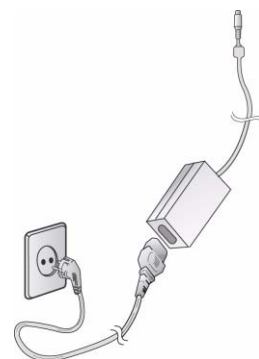
- ① Port for 12V DC cable from adapter or stand.
- ② Port for signal cable from signal source.
- ③ Port for AC power cable.

<Power Source Connection>

Basic



Option



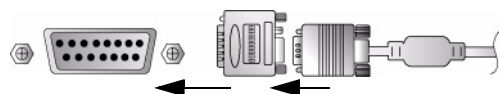
1. Use 220V or 110 V.(Free Voltage)
2. Connect monitor and Signal Source via Signal cable.
3. Power on the monitor and computer.
4. Connection is finished.

<Signal Cable Connection>

■ General



■ For Macintosh



Adapter for Macintosh(Optional)
Refer to the table on the rear side of the optional Macintosh adapter and adjust DIP switch by the resolution.

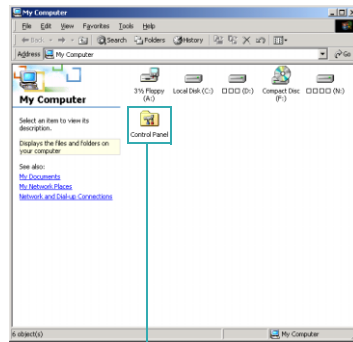
■ Installing Monitor Driver

- Automatic Installation

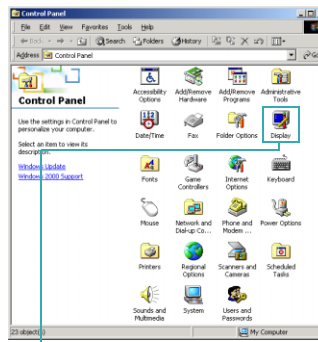
- Manual Installation (Windows 2000)

1. Insert the CD to the CD-ROM driver.
2. Double-click "Install.exe".
3. Select the model and click "OK" button.
4. Select inf file, and then click "OK" button.
5. Click "Exit" button to close the installation.

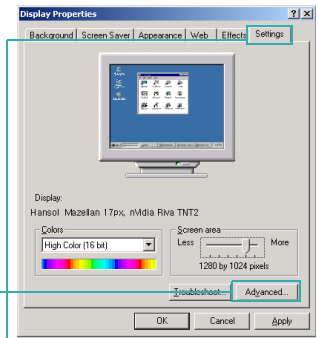
1. Insert the CD to the CD-ROM driver.
2. Click 'My Computer' and follow the procedure below.



① Click 'Control Panel'.

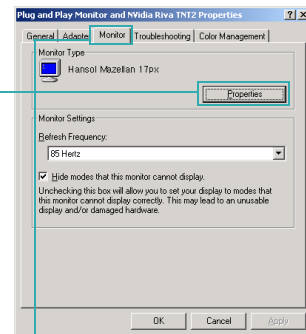


② Click 'Display'.



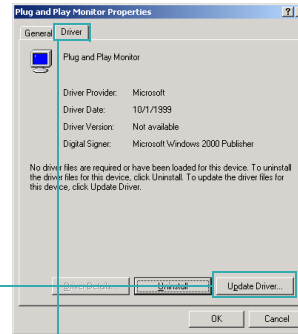
③ Click 'Settings'.

④ Click 'Advanced..'



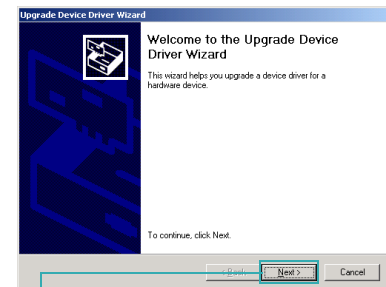
⑤ Click 'Monitor'.

⑥ Click 'Properties'.



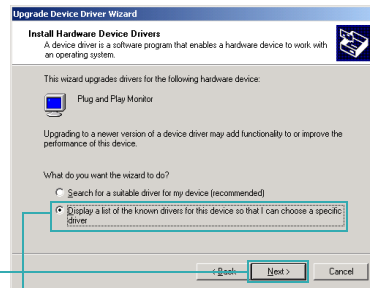
⑦ Click 'Driver'.

⑧ Click 'Update Driver'.

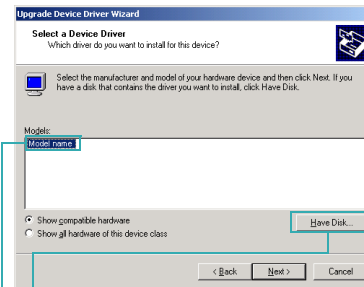


⑨ Click 'Next>'.

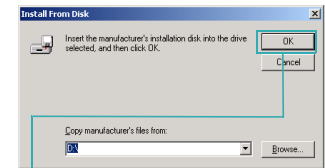




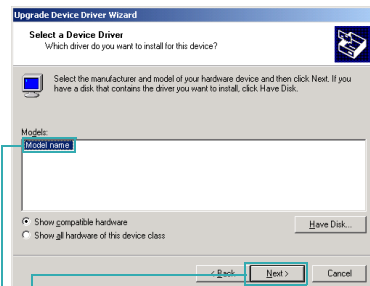
⑩ Click 'Display a list of all...'.
⑪ Click 'Next>'.



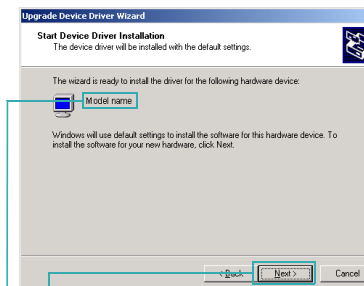
⑫ Click 'Have Disk...'
(ex : H711, 730ED...)



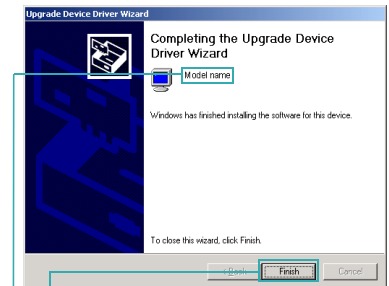
⑬ Select the driver and click 'OK'.



⑭ Click 'Next>'.
(ex : H711, 730ED...)



⑮ Click 'Next>'
(ex : H711, 730ED...)



● Click 'Finish'.
(ex : H711, 730ED...)

3. Select "Exit" if the monitor model is changed, and then reboot the Windows.

(Windows XP)

Microsoft® Windows® XP Operating System

1. Insert CD into the CD-ROM driver.
2. Click **"Start"** → **"Control Panel"** then click the **"Appearance and Themes"** Icon.
3. Click **"Display"** icon and choose the **"Settings"** tab then click **"Advanced.."**.
4. Click the **"Properties"** button on the **"Monitor"** tab and select **"Driver"** tab
5. Click **"Update Driver.."** and select **"Install from a list or.."** then click **"Next"** button.
6. Select **"Don't search ,I will.."** then click **"Next"** and then click **"Have disk"**.
7. Click the **"Browse"** button then choose A:(D:\Driver) and choose your monitor model in the model list and click the **"Next"** button.
8. Click the **"Close"** button then click **"OK"** button continually.
9. Monitor driver installation is completed.

(Windows Me)

Microsoft® Windows® Millennium Operating System

1. Click **"Start"** , **"Setting"** , **"Control Panel"**.
2. Double click **"Display"** icon.
3. Select the **"Settings"** tab and click **"Advanced Properties"** button.
4. Select the **"Monitor"** tab.
5. Click the **"Change"** button in the **"Monitor Type"** area.
6. Choose **"Specify the location of the driver"**.
7. Choose **"Display a list of all the driver in a specific location.."** then click **"Next"** button.
8. Click the **"Have Disk"** button.
9. Specify A:\(D:\driver) then click **"OK"** button.
10. Select **"Show all devices"** and choose the monitor that corresponds to the one you connected to your computer and click **"OK"**.
11. Continue choosing **"Close"** button and **"OK"** button until you close the Display Properties dialogue box.
(You can get some other screen for warning message or others, then click the appreciate option for your monitor.)

(Windows 98)

Microsoft® Windows® 98 Operating System

1. Click **"Start"** , **"Setting"** , **"Control Panel"**.
2. Double click **"Display"** icon.
3. Select the **"Settings"** tab and click **"Advanced Properties"** button.
4. Select the **"Monitor"** tab.
5. Click the **"Change"** button in the **"Monitor Type"** area then click **"Next"** button.
6. Choose **"Display a list of all the driver.."** then click **"Next"** button.
7. Click the **"Have Disk"** button, then click **"browse.."** button.
8. Specify A:\(D:\driver) then click **"OK"** button.
9. The **"Select Device"** dialogue box will appear. Select **"Show all devices"** then choose the monitor that corresponds to the one you connected to your computer and click **OK**.
10. Continue choosing **"Close"** button and **"O.K"** button until you close the Display Properties dialogue box.

(Windows 95)

Microsoft® Windows® 95 Operating System

First determine the Windows 95 version installed on your computer by right-clicking the My Computer icon on PC and selecting Properties. The version number is listed under System. Perform the steps for the appropriate version.

Version 4.00.950A

1. Click **Start, Settings, Control Panel**, and then double-click "Display" icon.
2. In the "Display Properties" window, click the "Settings" tab and click "Change Display Type".
3. In the "Change Display Type" window, click "Change" and then click "Have Disk".
4. Click "browse.." button and specify A:\(D:\driver) and click "OK".
5. In the Select Device window, click the appropriate monitor model and then click OK.
6. Continue choosing "Close" button and "OK" button until you close the "Display Properties" dialogue box.

Version 4.00.950B

1. Click **Start, Settings, Control Panel**, and then double-click "Display" icon.
2. In the "**Display Properties**" window, click the Settings tab and then click "**Advanced Properties**" button.
3. In the "**Advanced Display Properties**" window, click the "**Monitor**" tab and then click "**Change**" button.
4. In the "**Select Device**" window, click "**Have Disk**" button.
5. Click "**browse..**" button and specify A:\(D:\driver) and click "**OK**".
6. In the "**Select Device**" window, click the appropriate monitor model and then click "**OK**".
7. Continue choosing "**Close**" button and "**OK**" button until you close the "**Display Properties**" dialogue box.

(Windows NT)

Microsoft® Windows® NT Operating System

1. Click **Start, Settings, Control Panel**, and then double-click **Display** icon.
2. In Display Registration Information window, click Settings Tab and then click All **Display Modes**.
3. Select a mode that you wish to use (Resolution, Number of colors and Vertical frequency) and then click **OK**.
4. Click **Apply** button if you see the screen working normally after clicking Test. If the screen is not normal, change to a different mode (lower mode of resolution, colors or frequency).

Note: If there is no Mode at **All Display Modes**, select the level of resolution and vertical frequency by referring to the Preset Display Modes in the user guide.

(Linux)

Linux Operating System

To execute X-Window, you need to make the X86Config file, which is a type of system setting file.

1. Press Enter at the first and the second screen after executing the X86Config file.
2. The third screen is for **setting your mouse**.
3. Set a mouse for your computer.
4. The next screen is for **selecting a keyboard**.
5. Set a Keyboard for your computer.
6. The next screen is for **setting your monitor**.
7. First of all, set a **horizontal frequency** for your monitor. (You can enter the frequency directly.)
8. Set a **vertical frequency** for your monitor. (You can enter the frequency directly.)
9. Enter the **model name of your monitor**. This information will not affect the actual execution of X-Window.
10. You have **finished** setting up your monitor.

Execute X-Window after setting other requested hardware.

Service Center

■ EUROPE

Country	ASC	Tel	Country	ASC	Tel
U. K	Pulse Service Centre Ltd.	44-(0)-870-013-4470	Hungary	Profit Service Center Kft.	36 1 399 0405
Germany	BITRONICS GmbH	49-3634-683313	Bulgaria	RTS	359-2-971-2020
France	DATEX	33-1- 69- 310101	SWITZERLANDS	TPA PANATLANTIC AG	41 1 886 10 16
Spain	FREE ELECTRONICA S.A	34 91 6774787	SLOVAKIA	BGS-Distribution a.s	421 7 49101563
Finland	PowerMill OY	358 9 561 86130	LATVIA	ELKO-RIGA	371-709-3240
Ireland	Power Supplies Repair Agency LTD	353 1 286 1343	Greece	Alman Hellas Ltd.	3010 2409150
Belgium	SIMEX NV	32 16 40 58 44	SLOVENIA	ACORD 92 d.o.o.	386 1 583 72 62
Norway	Effekt A/S	47 333 00 630	Croatia	ZEL-COS d.o.o	358-1-615-9644
Portugal	CorpoTecnico	351 21 317 0210	Romania	S.C. Shark Industries S.A	40 1 224 22 58
Sweden	ANOVO Nordic	46 13 202 428	Romania	Flamingo Computers SA	4 236 2000(231)
Denmark	Strax	45 70 10 7101	Yugoslavia	PAKOM A.D.	381 18 52 11 16
Czech	ExtraPoint(Karma)	42022576650	Ukraine	MTI	380 44 458 00 32

■ U.S.A , CANADA

Country	ASC	Tel
USA	Think AT(West Area)	1-562-531-3815
	Far East(East Area)	1-201-935-5939
	Techpoint(South Area)	1-813-249-5808
CANADA	Ko-Am Electronics(West Area)	1-604-273-5622
	Electrodesign(East Area)	1-514-331-3202