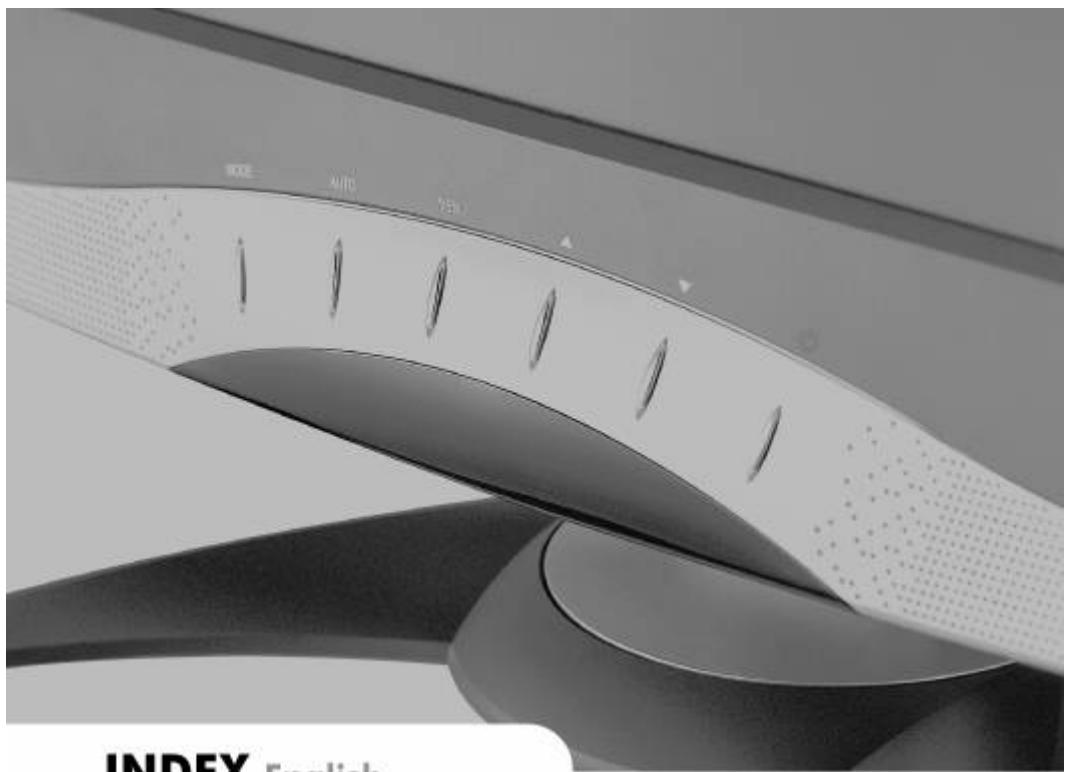




**17"/18.1" TFT LCD Monitor
User's Manual**



이 사용설명서는 이시하거나 다시 설치할 때 꼭 필요하오니 소중히 보관해 주십시오.



INDEX English

1. Initial Preparations	
Safety Instructions	3
Operation and controls	4
Basic Accessories	6
2. Connection	
Connecting to the PC	7
Connecting to the VCR or TV	8
3. Usage	
Description of Monitor Functions	9
Description of Function Buttons and Indicators	10
About Adjustment Items and Menus	13
4. Appendix	
Remote Control (Option: TV Function Model)	16
Installing VESA compliant mounting device	16
Troubleshooting	17
The Specification	18
Pin Assignments	19
Display Modes	20

1. Initial Preparations

Safety Instructions

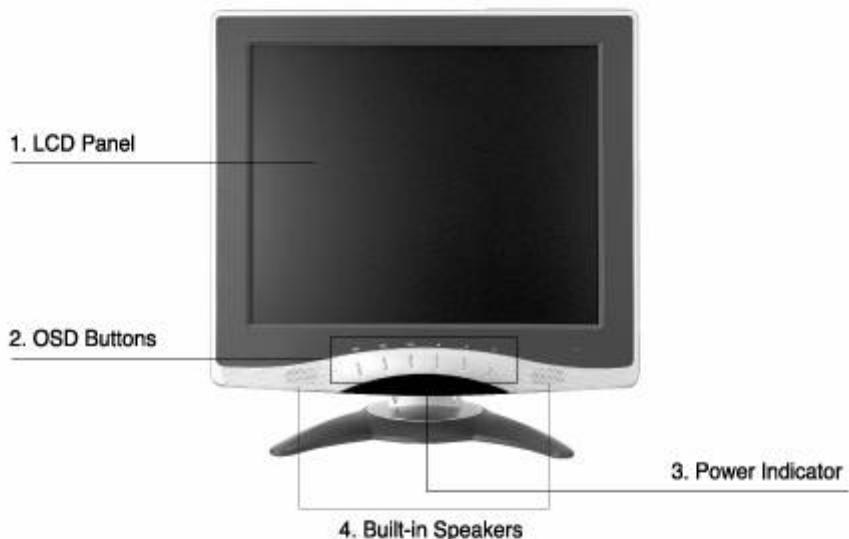
- 1 Before connecting the AC power cord to the DC adapter outlet, make sure the voltage designation of the DC adapter corresponds to the local electrical supply.
- 2 Never insert anything metallic into the openings in the cabinet of the Liquid Crystal Display (LCD) monitor; doing so may create the danger of electric shock.
- 3 To avoid electric shock, never touch the inside of the LCD Monitor. Only a qualified technician should open the case of the LCD Monitor.
- 4 Never use your LCD Monitor if the power cord has been damaged. Do not allow anything to rest on the power cord, and keep the cord away from areas where people can trip over it.
- 5 Be sure to hold the plug, not the cord, when disconnecting the LCD Monitor from an electric socket.
- 6 Openings in the LCD Monitor cabinet are provided for ventilation. To prevent overheating, these openings should not be blocked or covered. Also, avoid using the LCD Monitor on a bed, sofa, rug, or other soft surface. Doing so may block the ventilation openings in the bottom of the cabinet. If you put the LCD Monitor in a bookcase or some other enclosed space, be sure to provide adequate ventilation.
- 7 Put your LCD Monitor in a location with low humidity and a minimum of dust.
- 8 Do not expose the LCD Monitor to rain or use it near water(in kitchens, near swimming pools, etc.). If the LCD Monitor accidentally gets wet, unplug it and contact an authorized dealer immediately. You can clean the LCD Monitor with a damp cloth when necessary, but be sure to unplug the LCD Monitor first.
- 9 Place the LCD Monitor on a solid surface and treat it carefully. The screen is made of thin glass with a plastic front surface and can be damaged if dropped, hit or scratched. Do not clean the front panel with keton-type materials (e.g., acetone), ethyl alcohol, toluene, ethyl acid, methyl, or chloride- these may damage the panel.
- 10 Locate your LCD Monitor near an easily accessible AC outlet.
- 11 If your LCD Monitor does not operate normally-in particular, if There are any unusual sounds or smells coming from it-unplug it immediately and contact an authorized dealer or service center.
- 12 High temperature can cause problems. Don't use your LCD Monitor in direct sunlight, and keep it away from heaters, stoves, fireplaces, and other sources of heat.
- 13 Unplug the LCD Monitor when it is going to be left unused for an extended period of time.
- 14 Unplug your LCD Monitor from the AC outlet before any service.



1. Initial Preparations

Operation and Controls

(Front View)



1. LCD Panel

2. OSD Buttons

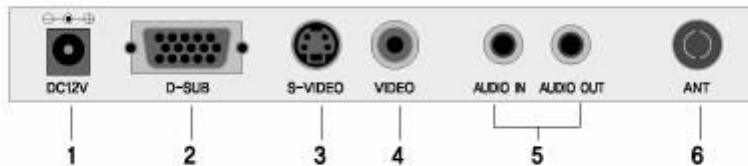
3. Power Indicator : Show monitor status.

Green : Monitor operating normally.

Flickering : Monitor signal cable isn't connected
(Flickering at 3-second intervals)

4. Built-in Speaker(Option)

(Rear View)



- 1. Power Connector** : For connecting the power supply adaptor.
- 2. D-SUB Unit** : For connecting the D-SUB signal cable.
- 3. S-VIDEO Connector** : For connecting the S-Video input cable.
- 4. VIDEO Composite Connector** : For connecting the Video Composite input cable.
- 5. AUDIO IN & OUT** : For connecting speakers to the PC sound card.
- 6. TV antenna Connector** : For connecting the TV antenna input signal cable.



1. Initial Preparations

Basic Accessories

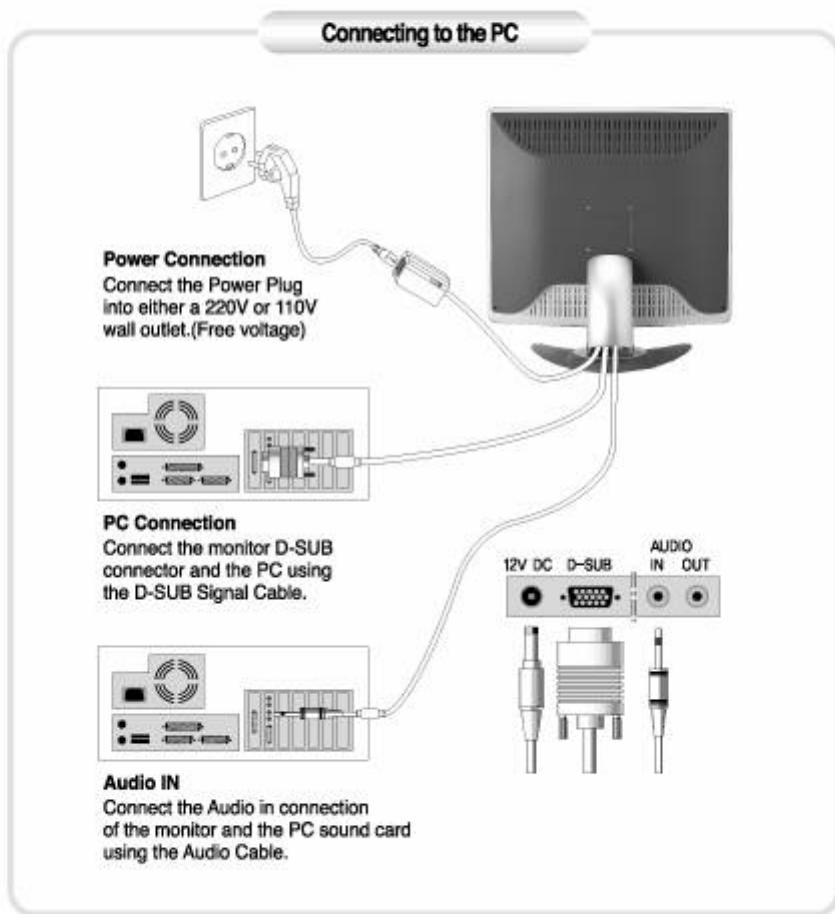
Please make sure the following items are included with your monitor.
If any items are missing, contact your dealer.



2. Connection

Connecting to the PC

This monitor offers a method for connection to both a PC and a workstation. One or both types of signal cables can be connected to the monitor simultaneously. Determine which connection method(s) you need and refer to the instructions below.



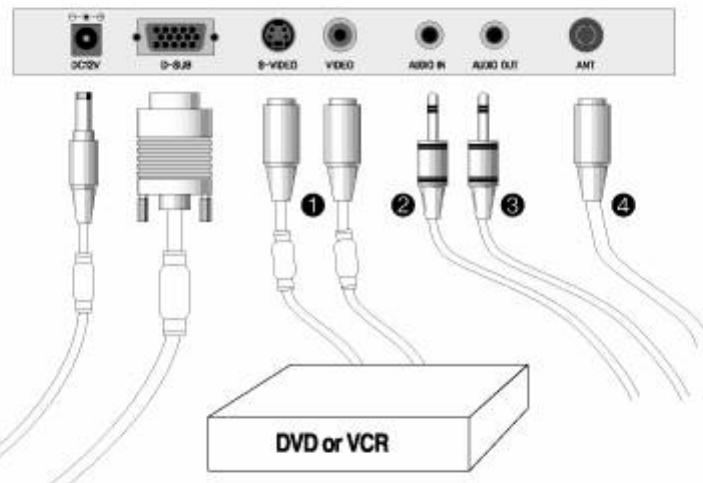
- Attention : Power off both the monitor and PC before making any connections the PC.



2. Connection

Connecting to the VCR or TV

Connecting to the VCR or TV



1. **S-Video In** : Connect the S-Video connection of the monitor and the VTR player using the S-Video Cable.

Video IN : Connect the Video connection of the monitor and the VTR player using the Video Cable.

2. **Audio In** : Connect the Audio in connection of the monitor and the PC sound card using the Audio Cable.

3. **Audio Out** : Connect the Audio out connection of the monitor and the external speaker.

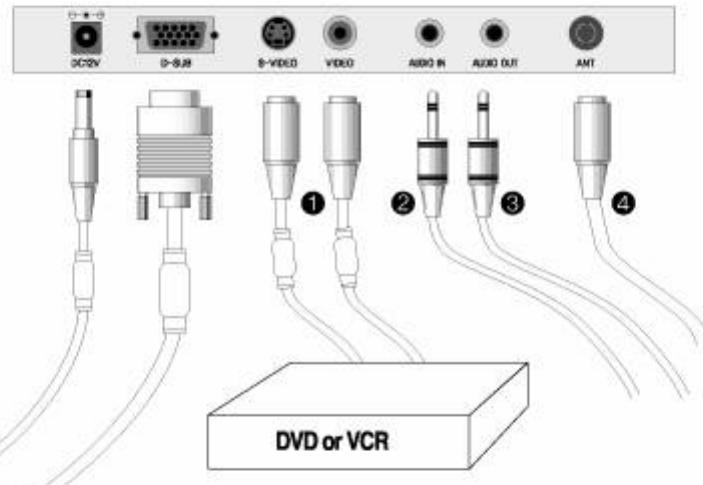
4. **TV Antenna In** : Connect the TV antenna connection of the monitor and the VTR player using the TV antenna cable



2. Connection

Connecting to the VCR or TV

Connecting to the VCR or TV



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Video IN : Connect the Video connection of the monitor and the VTR player using the Video Cable.

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4. **TV Antenna In** : Connect the TV antenna connection of the monitor and the VTR player using the TV antenna cable

3. Usage

Description of Monitor Functions



Basic Description - Front View

The function adjustment buttons of the NewQ Monitor are six on the center.
you can turn on the LCD monitor by pressing the power button as the picture showed.
When you see the green light, it means the LCD is on.
Additional adjustments are not required because they have been factory adjusted.
If the user wants to change the default setup, follow the setting description following.



3. Usage

Description of Function Buttons and Indicators

The front panel of NewQ TFT model has the following function buttons and indicators.
We will call DISPLAY ADJUST, MISC ADJUST, OSD ADJUST, and EXIT as Category
and each of their respective sub-categories as Individual Category.

● MODE Button

FUNCTION 1 > This is a Hot Key function. (ANALOG ● TV ● CATV ● VIDEO ● S-VIDEO)

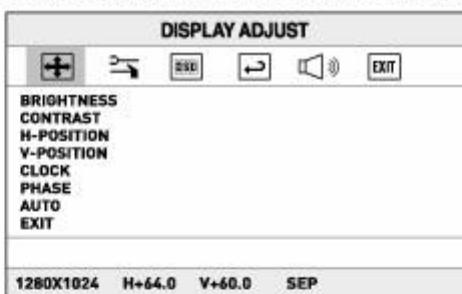
● AUTO Button

FUNCTION 1 > This is a Hot Key function.

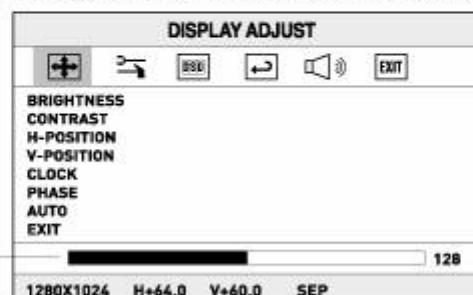
● MENU Button

Press this Button to bring up screen Adjustment menu on the screen.

FUNCTION 1 > OSD(On Screen Display) main screen appears when you press "MENU" button once.



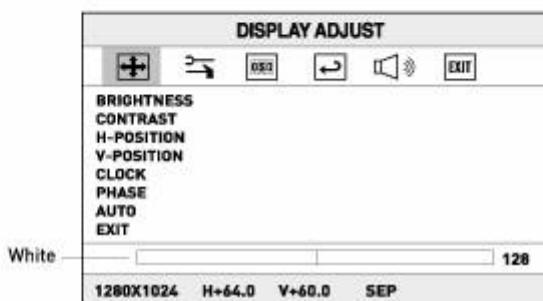
FUNCTION 2 > To go to sub-category (Individual Category) of DISPLAY ADJUST, MISC ADJUST, OSD ADJUST, or EXIT category, press "MENU" button again.



FUNCTION 3 > Press the button again to move back to the main Category from the Individual Category.

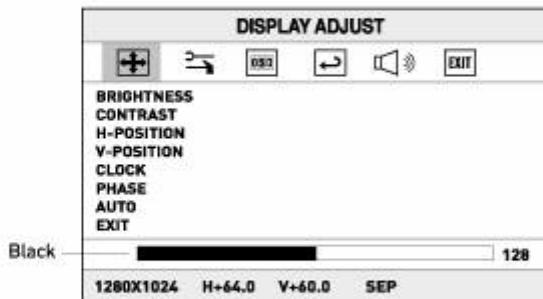
FUNCTION 4 > OSD screen will disappear when you press "MENU" button in EXIT Category.

FUNCTION 5 > When you are in FUNCTION 2> of MENU Button section, press "MENU" button once.
The color of control bar below will change to white from black as shown.



This indicates that you can use "▲ ▼" button to change values of each Individual Category.
(However, you should follow the direction on the screen in case of individual categories such as AUTO.)

FUNCTION 6 > When you press "MENU" button again in FUNCTION 5>, the color of the control bar below will change back to black from white.



This indicates that you cannot change the value of the individual category with "▲ ▼" button.
You can only use "▲ ▼" button to move up or down among the individual categories.



3. Usage

Description of Function Buttons and Indicators

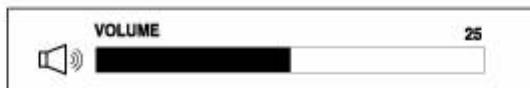
• "▲ ▼" Button

FUNCTION 1 > When you are in FUNCTION 1> or 3> of MENU button section, you can use "▲ ▼" button to move to the left or right in categories. (Category : DISPLAY ADJUST / MISC ADJUST / OSD ADJUST / EXIT)

FUNCTION 2 > See Function 5> of MENU button section. That is, if the color of the control bar below is white, you can change the value of the individual category by pressing "▲ ▼" button.

FUNCTION 3 > See Function 6> of MENU button section. That is, if the color of the control bar below is black, you can select the individual category you want by moving the selection bar up or down with "▲ ▼" button.

FUNCTION 4 > This is a Hot Key Function. Press "▲ ▼" button once to bring up the VOLUME adjustment screen as shown below., In which you can use "▲ ▼" button again to change volume setting.



• Description for Indicators

The light green indicator will turn on around the "POWER" button when the power is ON. The light green indicator will flicker in a certain interval when VGA-CABLE is disconnected or when SUSPENDED-MODE is on.

3. Usage

About Adjustment Items and Menus

1. Adjustment Items on Top of 'OSD' screen



DISPLAY ADJUST : These adjustment items are related to view of the screen that you can adjust brightness, contrast, time, and position.



MISC ADJUST : This stands for Miscellaneous-Adjust. You can make fine adjustment for each colors such as red, green, and blue (RGB) as well as color temperature.



OSD ADJUST : This stands for ON-SCREEN DISPLAY ADJUST. You can use this menu group to adjust items on the screen such as position of menu screen, transparency.



INPUT SELECT : This stands for Input mode select.



SOUND ADJUST : This stands for Sound Adjust.



EXIT : Use this item to exit from menu screen after you complete adjustment.

2. Menu Screen for Each Adjustment Items

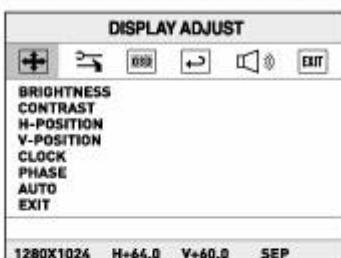


Figure 1. MENU Screen for DISPLAY ADJUST

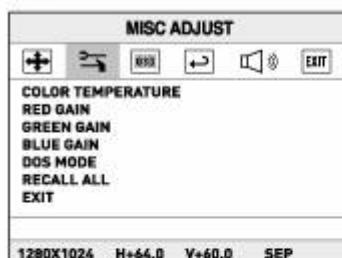


Figure 2. MENU Screen for MISC ADJUST

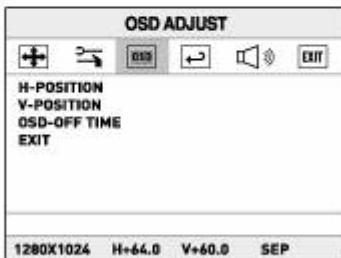


Figure 3. MENU Screen for OSD ADJUST

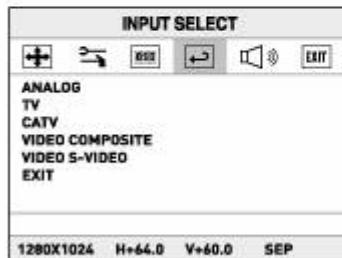


Figure 4. MENU Screen for INPUT SELECT



3. Usage

About Adjustment Items and Menus



Figure 5. MENU Screen for SOUND ADJUST

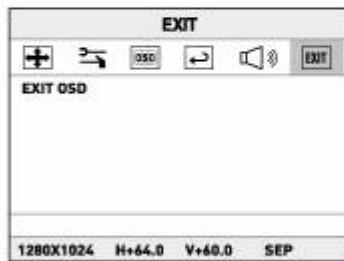


Figure 6. MENU Screen for EXIT

1. DISPLAY ADJUST

BRIGHTNESS : Use this menu to adjust brightness of the screen.

CONTRAST : Use this menu to adjust contrast of the screen.

H-POSITION : Use this menu to move the whole screen to the left or right.

V-POSITION : Use this menu to move the whole screen up or down.

CLOCK : Use this menu to adjust horizontal size of the whole screen.

You can set the value between 1684 ~ 1688.

PHASE : Use this menu to make fine adjustment.

You can set the value between 0 ~ 31.

AUTO : Use this menu reset to screen to the optimal state automatically.

2. MISC ADJUST

COLOR TEMPERATURE : Use this menu to adjust color temperature. The change may not be recognizable with your naked eyes. You can select one of 9300, 6500, 5500 or USER.

RED GAIN : The user can adjust the Red settings. Their changeable range is 0 to 100.

GREEN GAIN : The user can adjust the Green settings. Their changeable range is 0 to 100.

BLUE GAIN : The user can adjust the Blue settings. Their changeable range is 0 to 100.

DOS MODE : Use this menu to select either TEXT or GRAPHIC when you use DOS mode.

RECALL ALL : Use this menu to revert any changes of the screen to the factory default settings.

3. OSD ADJUST

H-POSITION : Use this menu to move OSD menu at the center to the left or right.

V-POSITION : Use this menu to move OSD menu at the center to the up or down.

OSD-OFF TIME : OFF TIME is the time for the menu to disappear when there is no menu selection after predefined time. You can adjust by 5 seconds between 1 ~ 120 seconds.

4. INPUT SELECT

- ANALOG** : Use this menu to select Analog mode.
- TV** : Use this menu to select TV mode.
- CATV** : Use this menu to select CATV mode.
- VIDEO COMPOSITE** : Use this menu to select Video Composite mode.
- VIDEO S-VIDEO** : Use this menu to select S-Video mode.

5. SOUND ADJUST

- PC VOLUME** : The user can adjust PC Volume setting. Their changeable range is 0 to 50.
- PC TREBLE** : The user can adjust PC Treble setting. Their changeable range is -7 to +7.
- PC BASS** : The user can adjust PC Bass setting. Their changeable range is -7 to +7.
- TV VOLUME** : The user can adjust TV Volume setting. Their changeable range is 0 to 50.
- TV TREBLE** : The user can adjust TV Treble setting. Their changeable range is -7 to +7.
- TV BASS** : The user can adjust TV Bass setting. Their changeable range is -7 to +7.

6. EXIT

EXIT OSD : Use this menu to exit from OSD menu screen.

- Option(TV, CATV, VIDEO, S-VIDEO Mode)



Figure 7. MENU Screen for ZURAC ADJUST



Figure 8. MENU Screen for VIDEO ADJUST

7. ZURAC ADJUST

- BRIGHTNESS-Z** : Use this menu to adjust brightness of the main CPU.
- CONTRAST-Z** : Use this menu to adjust contrast of the main CPU.
- DITHERING** : Use this menu to make fine color adjustment.
- SCALING** : Use this menu to scaling of the screen.

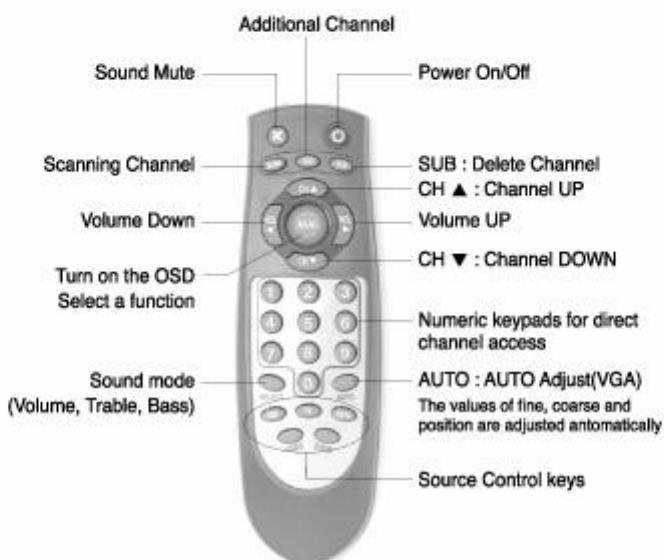
8. VIDEO ADJUST

- BRIGHTNESS** : Use this menu to adjust brightness of the screen.
- CONTRAST** : Use this menu to adjust contrast of the screen.
- SHARPNESS** : Use this menu to sharpness of the screen.
- SATURATION** : Use this menu to saturation of the screen.
- HUE** : Use this menu to hue of the screen.
- RESET** : Use this menu to reset of the VIDEO ADJUST.



4. Appendix

Remote Control (Option: TV Function Model)



Installing VESA compliant mounting device

Align the mounting interface pad with the holes in the rear cover mounting pad and secure it with the four screws that came with the arm-type base, wall mount hanger or other bases.

The monitor supports VESA mounting standard for use with various VESA mounting devices.

To install any VESA mounting device,

- 1) Lay the LCD monitor face-down on a flat surface with a cushion or other soft materials to protect the screen.
- 2) please remove all cable connected to the monitor and the stand with a screwdriver.



4. Appendix

Troubleshooting

In case of trouble, check these items before calling the service center.

Trouble	Suggested	Remedy
Screen is blank and power indicator is off.	▶ Check power cable connection. ▶ Check power button.	▶ Secure the connection. ▶ Push the power button.
Screen is blank but power indicator is in green mode.	▶ Check the monitor signal cable (D-SUB) connection.	▶ Secure the connection of monitor signal cable (D-SUB)
Display position and size is incorrect.	▶ Check for correct adjustment of display position and size.	▶ Start Auto adjustment in main menu.
Screen color isn't uniform and stable.	▶ Check video card resolution.	▶ Change the video card settings of resolution. Adjust color in SUB menu.
Display is too bright or too dark.	▶ Check monitor brightness.	▶ Adjust the brightness and contrast in SUB menu.
Any noise appearing in images or characters are not clearly portrayed.	▶ Check PHASE icon.	▶ Decrease the noise using the PHASE icon in main menu.



4. Appendix

The Specification

MODE	17 Inch	18.1 Inch
Display Type	Active Matrix LCD(TFT)	Active Matrix LCD(TFT)
Viewing Angle	80° (Horizontal) / 80° (Vertical)	
Brightness	≤ 250 cd/m ²	
Resolution	1280 x 1024(SXGA) Pixels	
Contrast	Min 200 : 1 / Typ 250 : 1	
Display Colors	Full color supporting 16.7 million colors	
Response Time	20(Typ)	
Pixel Type	RGB stripe Arrangement	
Dot Pitch	0.264 mm	0.28 mm
Interface	Analog / Video / S-Video / TV Tuner	
Video Input	Analog R.G.B., 0.7Vp-p	
AC/DC Adapter	Adapter 100~240V, 60/50Hz, DC 12V/4.17A	
Built-In Speakers	2W x 2 Stereo Type	
I/O Connector	DC Power In, VGA 15 pin D-sub, Video, S-Video, Audio In & Out, TV Tuner	
System Type	PC Compatible	
Power requirements	DC 12V, 4.17A	
Power Management	VESA DPMS Standard	
Power Consumption	42W	54W
Swivel	120°	
Tilt	30° (UP)	
Weight	7.2 kg	7.7 kg
Dimensions	445mm(W)x240mm(L)x445mm(H)	445mm(W)x240mm(L)x445mm(H)
Option	Video, Audio, Election Volume, AMP, TV Tuner	

The specification and designs contained herein may be subject to change without notice.

Pin Assignments

● Power Connector

Pin1	Ground	Pin2	+12V output
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● 15 pin D-SUB Connector

Pin1	Analog Red Input
Pin2	Analog Green Input
Pin3	Analog Blue Input
Pin4	Ground
Pin5	Digital Ground
Pin6	Analog Red Ground
Pin7	Analog Green Ground
Pin8	Analog Blue Ground
Pin9	NC
Pin10	Sync Ground
Pin11	Ground
Pin12	SDA (DDC Data)
Pin13	H. Sync
Pin14	V. Sync
Pin15	SCL (DDC CLK)



4. Appendix

Display Modes

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

MODE	Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
NEC	640x400(DOS Mode) VESA compatible	24.8	56.00
VGA	640x350	31.47	70.00
	640x350	37.86	85.00
	720x400	31.47	70.00
	720x400	37.93	85.00
	640x480	31.47	60.00
	640x480	35.00	66.70
	640x480	37.86	72.80
	640x480	37.50	75.00
	640x480	43.27	85.00
SVGA	800x600	35.16	56.30
	800x600	37.88	60.30
	800x600	48.08	72.20
	800x600	46.87	75.00
	800x600	53.67	85.10
XGA	1024x768	48.36	60.00
	1024x768	56.40	70.10
	1024x768	60.02	75.00
	1024x768	68.67	85.00
SXGA	1280x1024	64.00	60.00
	1280x1024	79.98	75.00

FCC

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.

Caution : 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

Note : This equipment has been tested and found 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 reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television 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.