

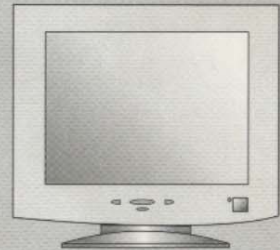
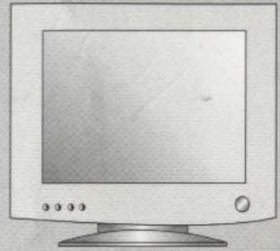
User's Guide



DigitalDevice, Inc.

4th FL. HanWha B/D 78-1 Karakdong
Songpagu Seoul, Korea
Tel :82-2-431-8471 Fax :82-2-431-8472
<http://www.digitaldevice.co.kr>

**TFT
COLOR
LCD
MONITOR**



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Microcontroller features

The microcontroller automatically detects the video board installed in your system. When you turn on the monitor, the Micro controller first checks the display mode memory stored in the user setting area and factory presetting area.

Display modes memory

The microcontroller has memory capacity to store 24 different display modes including timing formats and display settings. This memory capacity is divided into two parts. One is user setting area, the other is the factory presetting area.

User setting area

The user can add nonstandard modes. If you adjust display Image, the image is saved automatically. Then the microcontroller always detects and displays the last mode stored in the user setting area when the monitor is turned on.

The user setting area maintains the last 6 display modes set by the user in its memory. When the user setting area is full(6 modes are registered), if new nonstandard timing is registered, the oldest timing setting will be deleted.

Factory presetting area

There are 14 display modes stored in this area. These display modes are preset at the factory and include most of the display modes currently available(see Timing Charts of this manual).

You can also retrieve the factory preset mode by selecting the RECALL menu.

Automatic save

The monitor automatically saves the setting value after certain time (20 sec) of adjusting OSD menu.

Power management

This monitor equipped with DPMS(Display Management Signaling) function which automatically leads the monitor to the state of power saving that consumes just a little power less than 5Watts, when the computer is left unattended.

Operation

The DPMS function requires support from the computer system of any software DPMS function applied, currently being used. If the keyboard(or mouse)is left unattended for a certain period, the program or system will set the sync signals to DPMS modes. The DPMS function has three status. The recommended signal, power consumption and recovery times are shown in the below.

Status	Signal			Power Consumption	Recovery Time	LED Indicator
	Hsync	Vsync	Video			
On	Pulse	Pulse	Active	25 Watts(Max)		Green
Standby	No Pulse	Pulse	Blank	Less than 5 Watts	Within 2 sec	Alternating Green/Orange(0.5sec)
Suspend	Pulse	No Pulse	Blank			Off
Off	No Pulse	No Pulse	Blank			

■ Normal mode

When video signal is working with normal display condition, power LED is lit Green.

■ DPMS mode

The LED indicates different status when this unit operates in different power saving modes.

■ Not Supported Video

When unsuitable signal is detected, the display "Not Supported Video" message.

On Screen Display Setting

■ Auto Setup

Automatically adjust the position, phase, black and white levels of the screen.

■ Brightness

Adjust the intensity of the screen.

■ Contrast

Adjust the contrast of the screen.

■ Image Adjust

- 1) **Horizontal Position** : Adjust the horizontal position.
- 2) **Vertical Position** : Adjust the vertical position.
- 3) **Scale / Center**
 - ① Full Screen : The input image will be displayed on the panel so that it fills the entire screen.
 - ② Maintain Aspect Ratio : The input image will be displayed on the panel using the same aspect ratio while trying to fill the entire screen.
 - ③ Center : The input image will be displayed on the panel without being scaled.
- 4) **Image Enhancement**
 - ① Context Sensitive : The Scaling Engine will adjust filter parameters on a pixel-by-pixel basis.
 - ② Text(Sharp) : The Scaling Engine will be set to use a high sharpening filter.
 - ③ Video(Smooth) : The Scaling Engine will adjust images to be smoothed.

5) Color

- ① Color Temp
 - Native : A gamma table for Native temperatures will be loaded for all three color channels.
 - Cool : A gamma table for Cool temperatures will be loaded for all three color channels.
 - Neutral : A gamma table for Neutral temperatures will be loaded for all three color channels.
 - Warm : A gamma table for Warm temperatures will be loaded for all three color channels.
- ② RGB Adjust
 - Red : Control the intensity of the Red color of the screen's image.
 - Green : Control the intensity of the Green color of the screen's image.
 - Blue : Control the intensity of the Blue color of the screen's image.
- ③ Black Level Adjust
 - Red : Control the intensity of the Black Level for Red color of the screen's image.
 - Green : Control the intensity of the Black Level for Green color of the screen's image.
 - Blue : Control the intensity of the Black Level for Blue color of the screen's image.
- ④ Exit

6) Advanced

- ① Phase Adjust : Adjust the analog signals phase.
- ② Clock Adjust : Adjust the horizontal clocks.
- ③ AutoSetup Options
 - Autosetup On Modeset : Select the function of the Autosetup on Modeset.
 - Autoclock Feature : Select the function of the Autoclock Feature.
 - Exit
- ④ Mode Format : Select the monitor timing.
- ⑤ Exit

7) Exit

■ Languages

Change the OSD language selection.
OSD exits back to main menu with new language activated.

■ OSD Settings

- 1) **OSD Position**
 - ① Horizontal Position : Adjust the OSD Horizontal position.
 - ② Vertical Position : Adjust the OSD Vertical position.
 - ③ Exit
- 2) **OSD Size** : Select the OSD size.
- 3) **OSD Transparency** : Adjust the OSD Transparency.
- 4) **OSD Timeout** : Adjust the OSD Timeout.
- 5) **Exit**

■ Restore Factory Presets

Resets all values that are global settings and mode specific to the current mode.

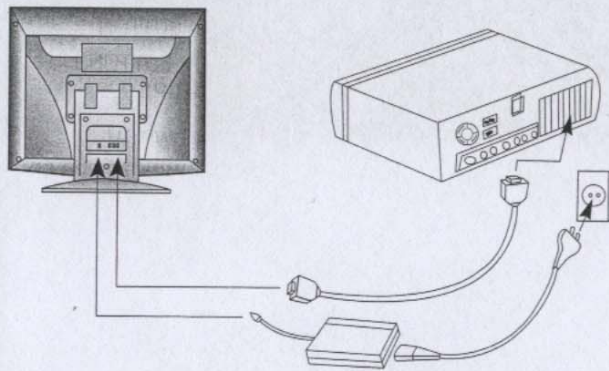
■ Exit

Menu Exit.

Connecting with external equipment

■ Cautions

Be sure to turn off the power of your computer before connecting the Monitor

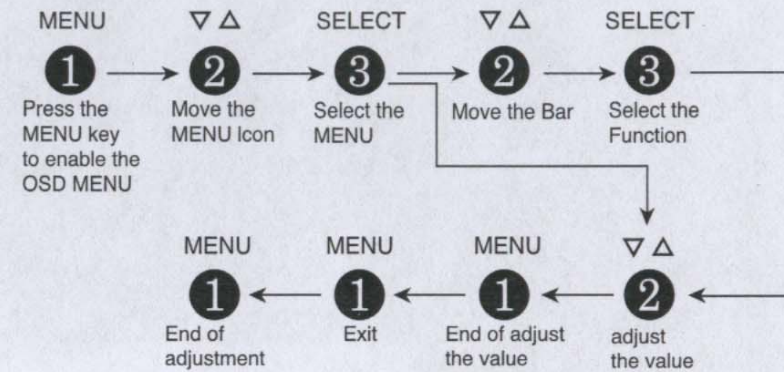


Video input terminal

A 15 pin D-sub connector is used as the input signal connector. Pin and input signals are shown in the table below

Pin number	Signal name	Pin number	Signal name	Pin number	Signal name
1	Red	2	Green	3	Blue
4	N.C	5	GND	6	RED-Gnd
7	GREEN-GND	8	BLUE-GND	9	+5V
10	Logic-GND	11	N.C	12	SDA (DDC)
13	H-sync	14	V-sync	15	SCL (DDC)

OSD Control Procedure



■ Main menu & control selection

Press the MENU key to access the main menu. Select the MENU Icon you wish to adjust by the ∇ or Δ key.

■ Exit Menu

Press the MENU key to exit.

■ Auto exit

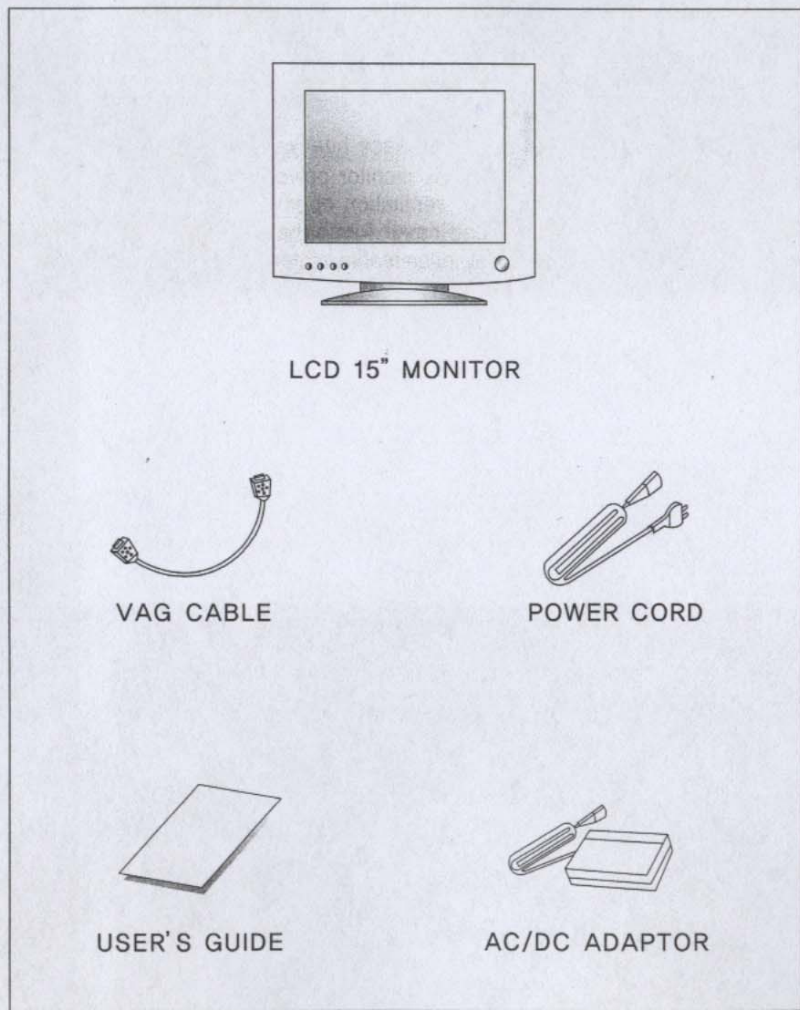
The OSD images are disappeared automatically after few seconds inactivity.

■ Auto save

The monitor automatically saves the new setting while OSD exits.

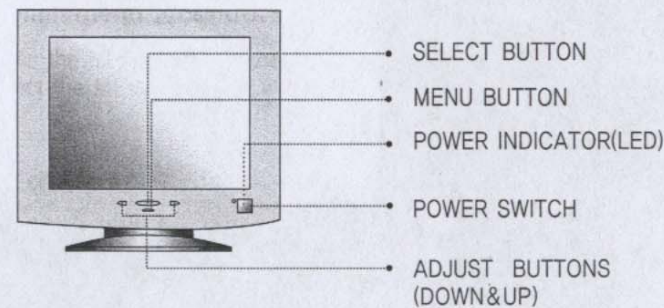
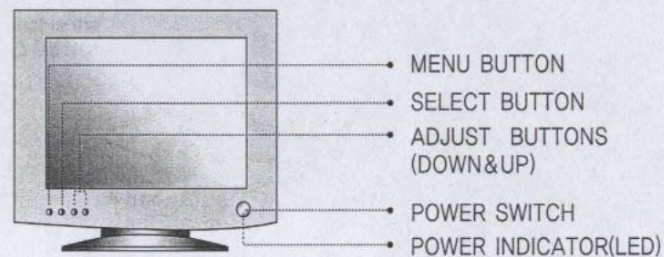
Installation

Packing List

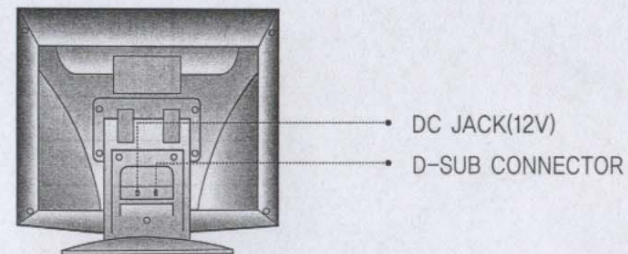


Control description

■ Front view



■ Rear View



How to get the most enjoyment with monitor

This is a 15" color LCD monitor to display signals from PC or Video equipment
This manual has been prepared to assist you in becoming familiar with your new display monitor.

Features

- 15" viewable XGA(1024×768) resolution LCD module
- 262,144 Color Display
- Brightness (250cd/m²)
- Viewing angle (U/D : 55°/60° R/L : 70°/70°)
- DPMS (Display Power Management Signaling)
- Implement the DDC 1/2B features.

DDC 1/2B uses a formerly unconnected signal pins in the 15-pin VGA connector.

The system will perform "plug& Play" feature if both monitor and host systems support DDC 1/2B protocol.



NOTE

Some computer systems are not compatible with the DDC standard.
If your monitor is displaying a wrong resolution, please check your computer system including a DDC compatible video card and contact Service Center.

General Safety precautions

This Monitor has been engineered and manufactured to assure your safety, and you can prevent your safety from serious electrical shock and other hazards by keeping in the following attentions.



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



- 2 Avoid operating the monitor in the place extremely heated, humid or affected by dust.
Temperature : 0~40°C
Humidity : 30~80RH



- 3 Be sure to turn the monitor off before plugging the power cord into the socket of power source.



- 4 Do not use the sharp tool such as pin or pencil to avoid scratch on the LCD surface.

Specification

LCD	Type	TFT Color
	Size	15" viewable, diagonal
	Dot Pitch	0.297×0.297mm
	Brightness	250cd/m ²
	Response Time	20m sec Max
Viewing Angle	U/D 55°/60°, R/L : 70°/70°	
Input	Signal Type	RGB Analog 15pin D-sub
Sync	H - Freq V - Freq	31~60 KHz 56~75 KHz
Video Band Width		80MHz Max
Display	Active Area	304.1×228.1mm
	Color	262,144(Normal), 16,777,216(Expansion)
Resolution (max)		1024×768@75Hz
User Controls & OSD Controls		Contrast, Brightness, H/V Position etc
Power Management		As per VESA Standard.
Power Consumption		25Watt (Max)
Plug & Play		VESA DDCI/2B
Tilt	U / D	35° / 5°
Temperature	Operating	0 TO 40°C
	Storage	-10 TO 50°C
Humidity	Operating	30% to 80% (Non-condensing)
	Storage	5% to 90% (Non-condensing)
Weight	Unit	5.3kg
	Carton	7.5kg
Dimension (W × H × Dmm)		487×250×465mm (Carton Box)

TROUBLESHOOTING GUIDE

TROUBLE	TROUBLESHOOTING TIP
No image on display screen	<ol style="list-style-type: none"> 1. Check that power cord of Monitor has been connected securely into wall outlet or grounded cable or strip. 2. Power switch should be in the ON position and LED is on. 3. Check that the Brightness and / or the Contrast adjustments of the Display have not been turned down to minimum levels.
"No signal, Check signal Cable" message on screen	<ol style="list-style-type: none"> 1. The signal cable should be completely connected to the video card / computer 2. The video card should be completely seated in its slot and the computer is switched ON.
Display image is not	Select Auto-adjust in the OSD.
Vertical or Horizontal noise is present in the picture	Adjust H-Size and Clock-phase in the OSD.

FCC RF INTERFERENCE STATEMENT

NOTE :

The 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 technical for help.
- Only shielded interface cable should be used.

Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment.