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Introduction

Thank you for purchasing a high resolution monitor. It will give you high resolution performance and convenient reliable operation in a variety of video operating modes.

Features

- The monitor is a 19 inches (18.0 inches viewable) intelligent, microprocessor based monitor compatible with most analog RGB (Red, Green, Blue) display standards, including IBM PC[®], PS/2[®], Apple[®], Macintosh[®], Centris[®], Quadra[®], and Macintosh II family.
- The monitor provides crisp text and vivid color graphics with VGA, SVGA, XGA, and VESA Ergonomic modes (non-interlaced), and most Macintosh compatible color video cards when used with the appropriate adaptor. The monitor's wide compatibility makes it possible to upgrade video cards or software without purchasing a new monitor.
- Digitally controlled auto-scanning is done with the micro-processor for horizontal scan frequencies between 30 and 96kHz, and vertical scan frequencies between 50-160Hz.
- This monitor is capable of producing a maximum horizontal resolution of 1600 dots and a maximum vertical resolution of 1200 lines.
- The microprocessor-based digital controls allow you to adjust conveniently a variety of image controls by using the OSD (On Screen Display).
- Plug and play capability if supported by your system
- This monitor has DDC 1 and DDC 2B function.*
- Compliant with the following regulated specifications :*
 - EPA ENERGY STAR
 - -Swedish MPR II
 - -Swedish TCO'99

* For detailed information, please refer to the Reference Guide provided.



On the back of the monitor are two plug-in connections; one for the AC power cord, and the other for the signal cable from the video card.

Power off both the monitor and PC.

Connect the 15 pin VGA connector of the supplied signal cable to the output VGA video connector on the PC. The connectors will mate only one way. If you cannot attach the cable easily, turn the connector upside down and try again. When mated, tighten the thumbscrews to secure the connection.

Locate the appropriate MAC to VGA adapter block at your local computer store. This adapter changes the high density 3 row 15 pin VGA connector to the correct 15 pin 2 row connection to mate with your MAC. Attach the other end of the signal cable to the side of the adapter block with 3 rows.

Connect the attached adapter block/signal cable to the video output on your MAC.

• One end of the AC power cord is connected into the AC power connector on the back of the monitor. The other end is plugged into a properly grounded three-prong AC outlet.



If you see the **SELF DIAGNOSTICS** message, check the signal cable and connectors.

After using the system, power OFF the monitor, then the PC.





ControlPanelFunction

Front Panel Controls



Making adjustments to the image size, position and operating parameters of the monitor are quick and easy with the On Screen Display Control system. A quick example is given below to familiarize you with the use of the controls. Following section is an outline of the available adjustments and selections you can make using the OSD.

NOTE

Allow the monitor to stabilize for at least 30 minutes before making image adjustment.



To make adjustments in the On Screen Display, follow these steps:

You were introduced to the procedure of selection and adjusting an item using the OSD system. Listed below are the icons, icon names, and icon descriptions of the items that are shown on the Menu.

	Adjustthedisplaytothecontrastdesired.
	Usedtoadjustthebrightnessofthescreen.
	 Tomovepictureimageleftandright. Movesthescreenimageleft. Movesthescreenimageright.
H SIZE H SIZE size o	 Transformation Decreasesthesizeofthescreenimage. Increasesthesizeofthescreenimage.





V MOIRE



Reduce vertical moire when interference patterns of dark steady wary lines appear on your screen. The moire adjustments may affect the focus of the screen.

H CONVERGENCE



Trisitem allows you to adjust the horizontal convergence. The horizontal convergence control adjust the alignment of the red and blue horizontal fields.

COLOR	
SOLOR	
● ़ े क स स स स क ज त क क	

• 9300 : Trappearthedisplay 'scolor temperature.Slightlybluishwhite.

- 6500 : δappearthedisplay 'scolor temperature. Slightlyreddishwhite.
 - : Tosetyourowncolorlevels. AllowforspecificadjustmentstoRed, GreenandBlue(R/G/B).
 - Emperaturerangeisfrom
 €000Kto
 0000K.So,usereasilycolorset
 withoutadjustmentRed,Greenand
 Blue(R/G/B).
- ↔ : The state of the

▶o∢ RECALL





	δchoosethelanguageinwhichthecontrol namesaredisplayed. OSDMenusareavailablein languages: English, German, French, Spanish, Italian, Swedish, Finnish, Portuguese, Korean, Chinese and Russian.
43 2kHz/85 0Hz DEUTSCH FRANÇAIS ESPAÑOL ITALIANO	
	Thisitemisusedtoselectthemonitor'sinput signallevel.ThenormallevelusedformostPC's is0.7V Whenthescreensuddenlygetsbrightenedor blurry,pleaseselect10 andtryagain.
A DEGAUSS	omanuallydemagnetizethescreenwhichmay showsomeimageorcolorincorrectly.





The monitor has 19 memory locations for display modes, 4 of which are factory preset to popular video modes.

Preset Modes (Resolution)

D	isplay Mo	des (Resolution)	Horizontal Freq.(kHz)	Vertical Freq.(Hz)
1	₩SA	640x480	43.269	85
2	₩SA	800x600	5 .674	85
3	₩SA	0 24x768	68.677	85
4	₩SA	280x024	9146	85

User Modes

 Modes 5-19 are empty and can accept new video data. If the monitor detects a new video mode that has not been present before or is not one of the preset modes, it stores the new mode automatically in one of the empty modes starting with mode 5.

If you use up the 15 blank modes and still have more new video modes, the monitor replaces the information in the user modes starting with mode 5.

Recalling Display Modes

• When your monitor detects a mode it has seen before, it automatically recalls the image settings you may have made the last time you used that mode.

You may, however, manually force a recall of each of the 4 preset modes by pressing the Recall button. All preset modes are automatically recalled as the monitor senses the incoming signal.

The ability to recall the preset modes is dependent on the signal coming from your PC's video card or system. If this signal does not match any of the factory modes, the monitor automatically sets itself to display the image.

Check the following before calling for service.

SELF DIAGNOSTICS message.

• The signal cable is not connected, or is loose. Check and secure the connection.

OUT OF FREQUENCY message appears.

• The frequency of the signal from the video card is outside the operating range of the monitor.

* Horizontal Frequency : 30-96kHz

* Vertical Frequency : 50-160Hz

Use the graphics board's utility software to change the frequency setting (Refer to the manual for graphics board).

The power LED is illuminated amber.

- Display power management mode.
- There is no active signal coming from the PC.
- The signal cable is not fastened securely.
- Check the computer power and graphics adapter configuration.

The image on the SCREEN is not centered, or too small, or not a rectangle shape.

Image adjustment not been done yet in the current operating mode. Use the ,
 and to your liking.

The monitor doesn't enter the power saving off mode (Amber).

 Computer video signal is not VESA DPMS standard. Either the PC or the video controller card is not using the VESA DPMS power management function.

Picture Tube	19 inch (18.0 inches viewable) FST 90 degree deflection		
	0.26mm dot pitch		
	ARAS(Anti-Reflect	ive Anti-Static) coating, U-coating	
Sync Input	Horizontal Freq.	30 - 96kHz (Automatic)	
	Vertical Freq.	50 - 160Hz (Automatic)	
	Input Form	Separate TTL, Positive/Negative	
		Composite TTL, Positive/Negative	
	Signal Input	15 pin D-Sub Connector	
Video Input	Input Form	Separate, RGB Analog, 0.7Vp-p/75 ohm, Positive	
	Resolution(max)	1600 x 1200@75Hz	
Power	Max.	≤110W	
Consumption	Normal	≤ 90W	
	Stand-by/Suspend	≤ 8W	
	Power Off	≤ 3W	
Dimensions (with	Width	45.8 cm / 18.0 inches	
tilt/ swivel stand)	Height	46.8 cm / 18.4 inches	
	Depth	47.9 cm / 18.9 inches	
	Europe	AC 200-240V 50Hz 1.0A	
	Others	AC 100-240V 50/60Hz 2.0A	
	The products sh	nould be used according to the Power	
_	requirements of each ID LABEL.		
_	Net	22.0 kg (48.50 lbs)	
_	Operating Condition		
_	Temperature	10 °C to 40 °C	
_	Humidity	10 % to 90 % non-Condensing	
	Storage Conditio	n	
	Temperature	0 °C to 60 °C	
	Humidity	5 % to 90 % non-Condensing	

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