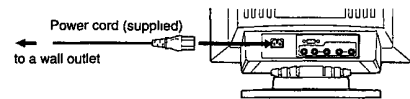


The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

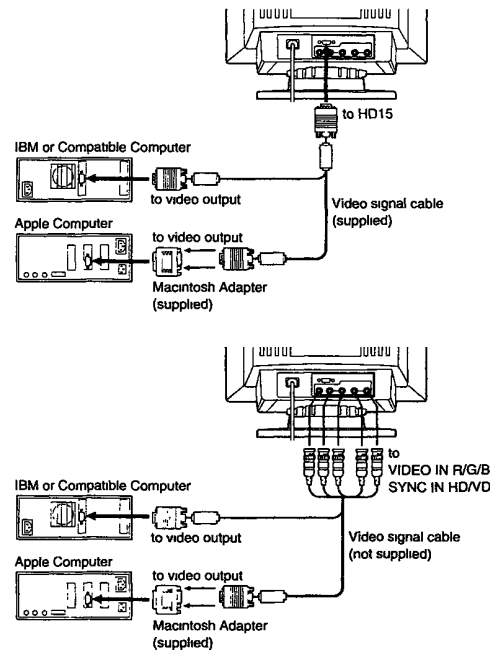
Getting Started

This monitor will sync with any IBM or compatible system equipped with VGA or greater graphics capability. Although this monitor will sync to other platforms, including Macintosh and Power Macintosh system, a cable adapter is required. Please consult your dealer for advice on which adapter is suitable for your needs.

Step 1: With the monitor switched off, attach the power cord to the monitor and the other end to the power outlet.



Step 2: With the computer switched off, attach the video signal cable to the monitor (HD15/5 BNC's) and attach the other end to the video card.



Note: Use HD15 (Female)-HD15(Male without No.9 pin) adapter (supplied) for current DOS computer which has no compliance of DDC 2AB and its No.9 pin is disconnected.

Step 3: Turn on the monitor and computer.

Step 4: Switch the input connector according to the adjustment procedure on page 10.

Step 5: If necessary, adjust the user controls according to your personal preference.

The installation of your monitor is complete. Enjoy your monitor.

Notice

To comply with the limits of FCC Class B and IC Class B for digital device, please attach the supplied video signal cable for HD15 input or SMF-400 (sold separately) for BNC input. Furthermore, each cable has ferrite cores on it.

SECTION 1 GENERAL

Using your Monitor

Preset and User Modes

The Multiscan 17seII/20seII has factory preset modes for the 10 most popular industry standards for true "plug and play" capability.

When using a video mode that is not one of the 10 factory preset modes, some fine tuning may be required to optimize the display to your preferences. Simply adjust the monitor according to the preceding adjustment instructions. The adjustments will be stored automatically and recalled whenever that mode is used.

A total of 15 user-defined modes can be stored in memory. If the 16th mode is entered, it will replace the first.

For less common modes, and modes that evolve in the future, the Digital Multiscan Technology of the Multiscan 17seII/20seII will perform all of the complex adjustments necessary to ensure a high quality picture for any timing in its frequency range. However, due to the wide variety of video boards on the market, it may be necessary for the user to fine tune the vertical/horizontal size and centering.

Recommended horizontal timing conditions

Horizontal sync width duty should be: >4.8% of total horizontal time.

Horizontal blanking width should be: >3.0 μ sec

Note: For Windows[®] users, check your video board manual or the utility program which comes with your graphic board and select the highest available refresh rate to maximize monitor performance.

GDM-17SE2T

No.	Resolution (dots \times lines)	Horizontal Frequency	Vertical Frequency	Graphics Mode
1	640 \times 480	31.5 kHz	60 Hz	VGA Graphic ⁽¹⁾
2	720 \times 400	31.5 kHz	70 Hz	VGA Text ⁽¹⁾
3	640 \times 480	43.3 kHz	85 Hz	VESA ⁽²⁾
4	832 \times 624	49.7 kHz	75 Hz	Macintosh 16" Color ⁽³⁾
5	800 \times 600	53.7 kHz	85 Hz	VESA ⁽²⁾
6	1024 \times 768	60.0 kHz	75 Hz	Macintosh 19" Color ⁽³⁾
7	1280 \times 1024	64.0 kHz	60 Hz	VESA ⁽²⁾
8	1024 \times 768	68.7 kHz	85 Hz	VESA ⁽²⁾
9	1152 \times 870	68.7 kHz	75 Hz	Macintosh 21" Color ⁽³⁾
10	1280 \times 1024	80.0 kHz	75 Hz	VESA ⁽²⁾

GDM-20SE2T

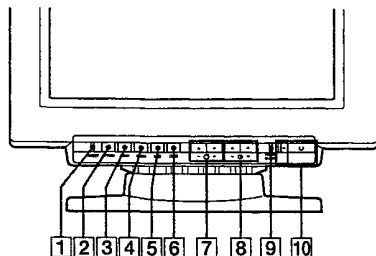
No.	Resolution (dots \times lines)	Horizontal Frequency	Vertical Frequency	Graphics Mode
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7	1024 \times 768	68.7 kHz	85 Hz	VESA ⁽²⁾
8	1152 \times 870	68.7 kHz	75 Hz	Macintosh 21" Color ⁽³⁾
9	1280 \times 1024	91.1 kHz	85 Hz	VESA ⁽²⁾
10	1600 \times 1200	93.8 kHz	75 Hz	VESA ⁽²⁾

- VGA is a trademark of IBM Corporation.
- VESA is a trademark of Video Electronics Standard Association.
- Macintosh is a trademark of Apple Computer Inc.
- Windows[®] is a registered trademark of Microsoft Corporation in the United States and other countries.

Functions of Controls

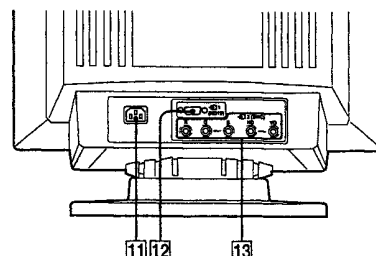
See the given pages for further description.

Front

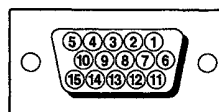


- 1 RESET button (page 11)**
Press to reset the adjustment data to the factory-preset levels.
- 2 OPTION button (page 9-11)**
Press to set the option items, such as control lock and color temperature.
- 3 CONV (convergence) button (page 9)**
Press to adjust the vertical and horizontal convergence.
- 4 GEOM (geometry) button (page 8)**
Press to adjust the rotation and pincushion.
- 5 SIZE (picture size) button (page 8)**
Press to adjust the vertical and horizontal picture size.
- 6 CENT (center) button (page 7)**
Press to adjust the vertical and horizontal picture position.
- 7 ◊ (brightness) -/+ (↓/↑) buttons (page 7-11)**
Press to adjust the brightness.
-/+ (↓/↑) buttons also adjust the each item.
- 8 ○ (contrast) -/+ (←/→) buttons (page 7-11)**
Press to adjust the contrast.
-/+ (←/→) buttons also adjust the each item.
- 9 POWER SAVING indicator (page 12)**
Lights up when the monitor is in the Power Saving Modes.
- 10 ⏻ power switch and indicator (page 12)**
Press to turn the monitor on or off. The indicator lights up when the monitor is turned on.

Rear



- 11 AC IN connector**
Plug in an AC power cord.
- 12 Video input 1 connector (HD15)**
The cable accepts RGB video signals (0.714 Vp-p, positive) and SYNC signals.



Pin No.	Signal	Pin No.	Signal
1	Red	8	Blue Ground
2	Green (Composite Sync on Green)	9	DDC + 5V*
3	Blue	10	Ground
4	—	11	—
5	DDC Ground*	12	Bi-Directional Data (SDA)*
6	Red Ground	13	H. Sync
7	Green Ground	14	V. Sync
		15	Data Clock(SCL)*

* Display Data Channel (DDC) Standard by VESA

- 13 Video input 2 connectors (5 BNC)**
The cable accepts RGB video signals (0.714 Vp-p, positive) and SYNC signals.

Adjustments

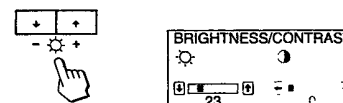
You can adjust the picture to your preference by following the procedure described below.
You can adjust all items on the OSD (On Screen Display). The item being adjusted is indicated in white on the OSD.

Before adjusting the items, turn on the unit and connect a video cable to the computer/work station.

Adjusting the Picture Brightness

The adjustment data becomes the common setting for all input signals received.

- 1** Press the ◊ ↓/↑ button.
The "BRIGHTNESS/CONTRAST" OSD (On Screen Display) appears.



- 2** Press the ◊ ↓/↑ buttons to adjust picture brightness.
↓ ... for less brightness
↑ ... for more brightness

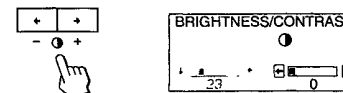
The "BRIGHTNESS/CONTRAST" OSD disappears 3 seconds after you release the buttons.

To reset, press the RESET button while the OSD is on.

Adjusting the Picture Contrast

The adjustment data becomes the common setting for all input signals received.

- 1** Press the ◊ ←/→ button.
The "BRIGHTNESS/CONTRAST" OSD (On Screen Display) appears.



- 2** Press the ◊ ←/→ button to adjust picture contrast.
← ... for less contrast
→ ... for more contrast

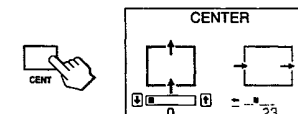
The "BRIGHTNESS/CONTRAST" OSD disappears 3 seconds after you release the buttons.

To reset, press the RESET button while the OSD is on.

Adjusting the Picture Centering

The adjustment data becomes the unique setting for the input signals received.

- 1** Press the CENT button.
The "CENTER" OSD (On Screen Display) appears.



- 2** For vertical adjustment
Press the ◊ ↓/↑ buttons.



↓ ... to move down
↑ ... to move up

For horizontal adjustment
Press the ◊ ←/→ buttons.



← ... to move left
→ ... to move right

To erase the "CENTER" OSD, press the CENT button again.
The "CENTER" OSD automatically disappears 10 seconds after you release the buttons.

To reset, press the RESET button while the OSD is on.