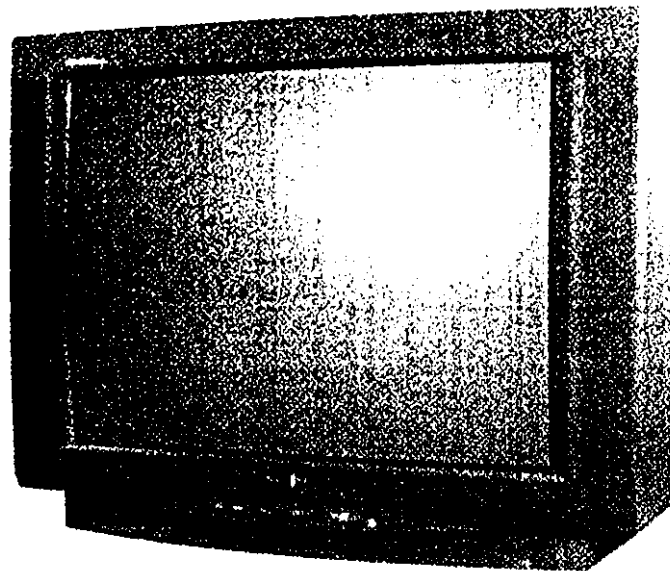


FCC ID: FYLSM34D

SAMPO

# MULTIMEDIA MONITOR

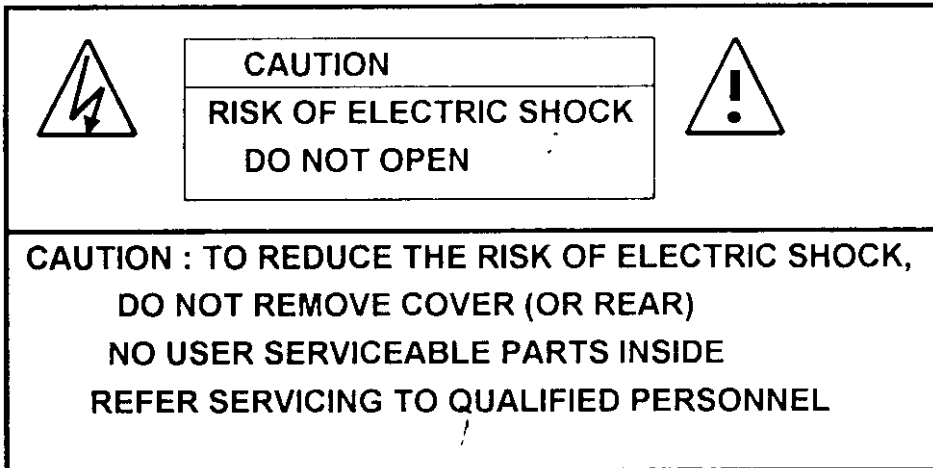
34" MULTIMEDIA MONITOR • 32" 806mm VIEWABLE IMAGE



**USER MANUAL**

SME-23DV3

## WARNING AND CAUTION



### **WARNING:**

**TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS MONITOR TO RAIN OR MOISTURE.**

**HIGH VOLTAGE EXISTS ON THE CATHODE-RAY TUBE ANODE LEAD OF THIS MONITOR. BEFORE SERVICING, DETERMINE THE PRESENCE OF HIGH VOLTAGE BY CONNECTING THE H.V. METER BETWEEN THE ANODE OF CRT CAP AND CHASSIS ONLY.**

### **CAUTION:**

- 1.Keep monitor away from excessive dust, high temperature, moisture or direct sunlight.**
- 2.Use well ventilated area and do not cover ventilation openings.**
- 3.Unauthorized modification to this equipment, substitution or the use of an unshielded connecting cable may cause excessive interference.**
- 4.When the monitor is not in use, disconnect it from the mains power supply.**
- 5.As an ENERGY STAR®Partner, SAMPO CORPORATION has determined that this product meets the ENERGY STAR®guidelines for energy efficiency .**
- 6.If the picture display is in any way abnormal, disconnect from mains. Check and ensure the installation is correct . Then reconnect the mains supply.**

11. If an extension cord is used with this product, ensure that the total ampere ratings of the products connected to the extension cord, do not exceed the extension cord ampere rating. Also ensure that the total amperes of all products connected to the mains outlet, does not exceed 15 amperes.
12. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
13. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks.  
Refer all servicing to qualified service personnel.
14. Disconnect this product from the mains supply and refer servicing to qualified service personnel under the following conditions:
  - A. When the power cord or plug is damaged or frayed.
  - B. If liquid has been spilled into the product.
  - C. If the product has been exposed to rain or water.
  - D. If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
  - E. If the product has been dropped or the cabinet has been damaged.
  - F. If the product exhibits a distinct change in performance, indicating a need for service.

## **Wichtige Sicherheitshinweise**

1. Bitte lesen Sie sich diese Hinweise sorgfältig durch.
2. Heben Sie diese Anleitung für den späteren Gebrauch auf.
3. Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen.  
Verwenden Sie keine Flüssig- oder Aerosolreiniger.  
Am besten dient ein angefeuchtetes Tuch zur Reinigung.
4. Um eine Beschädigung des Gerätes zu vermeiden sollten Sie nur Zubehörteile verwenden, die vom Hersteller zugelassen sind.
5. Das Gerät ist vor Feuchtigkeit zu schützen.
6. Bei der Aufstellung des Gerätes ist auf sicheren Stand zu achten.  
Ein Kippen oder Fallen könnte Verletzungen hervorrufen.  
Verwenden Sie nur sichere Standorte und beachten Sie die Aufstellhinweise des Herstellers.
7. Die Belüftungsöffnungen dienen zur Luftzirkulation die das Gerät vor Überhitzung schützt. Sorgen Sie dafür, daß diese Öffnungen nicht abgedeckt werden.
8. Beachten Sie beim Anschluß an das Stromnetz die Anschlußwerte.
9. Die Netzanschlußsteckdose muß aus Gründen der elektrischen Sicherheit einen Schutzleiterkontakt haben.
10. Verlegen Sie die Netzanschlußleitung so, daß niemand darüber fallen kann. Es sollte auch nichts auf der Leitung abgestellt werden.
11. Alle Hinweise und Warnungen die sich am Geräten befinden sind zu beachten.
12. Wird das Gerät über einen längeren Zeitraum nicht benutzt, sollten Sie es vom Stromnetz trennen. Somit wird im Falle einer Überspannung eine Beschädigung vermieden.

13. Durch die Lüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das Gerät gelangen. Dies könnte einen Brand bzw. elektrischen Schlag auslösen.
14. Öffnen Sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von autorisiertem Servicepersonal geöffnet werden.
15. Wenn folgende Situationen auftreten ist das Gerät vom Stromnetz zu trennen und von einer qualifizierten Servicestelle zu überprüfen:
  - a - Netzkabel oder Netzstecker sind beschädigt.
  - b - Flüssigkeit ist in das Gerät eingedrungen.
  - c - Das Gerät war Feuchtigkeit ausgesetzt.
  - d - Wenn das Gerät nicht der Bedienungsanleitung entsprechend funktioniert oder Sie mit Hilfe dieser Anleitung keine Verbesserung erzielen.
  - e - Das Gerät ist gefallen und/oder das Gehäuse ist beschädigt.
  - f - Wenn das Gerät deutliche Anzeichen eines Defektes aufweist.
16. Bei Reparaturen dürfen nur Originalersatzteile bzw. Den Originalteilen entsprechende Teile verwendet werden. Der Einsatz von ungeeigneten Ersatzteilen kann eine weitere Beschädigung hervorrufen.
17. Wenden Sie sich mit allen Fragen die Service und Reparatur betreffen an Ihren Servicepartner. Somit stellen Sie die Betriebssicherheit des Gerätes sicher.

## **FCC CLASS-B STATEMENT**

### **IMPORTANT:**

The equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of 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 strict 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 measure:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the 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.

Shielded interconnected cables and shield power cords must be employed with this equipment to insure compliance with the pertinent RF emission limits governing this device.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment and invalidate the warranty.

### **NOTICE OF COMPLIANCE WITH CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS**

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.

**5. Pin assignments for D-type connector**

Pin 1 : RED	Pin 6 : RED RETURN	Pin 11 : GND
Pin 2 : GREEN	Pin 7 : GREEN RETURN	Pin 12 : SDA
Pin 3 : BLUE	Pin 8 : BLUE RETURN	Pin 13 : H-SYNC
Pin 4 : GND	Pin 9 : NC	Pin 14 : V-SYNC
Pin 5 : GND	Pin10: GND	Pin 15 : SCL

**6. Horizontal size** 620 +/- 8 mm (for mode 1-8)

**Vertical size** 465 +/- 8 mm (for mode 1-8)

**7. User Controls** Power, Brightness, Contrast, V-Size, V-Center, H-Width, H-Phase, Degauss, Pincushion, Trapezoid, Parallelogram, Rotation, R-Gain, G-Gain, B-Gain, Bass, Treble, Balance, Color, Tint, Sharpness, Mute, Volume, Woofer, Recall, Input Select.

**8. Operating temperature** 0°C to 40°C

**9. Unit dimension (with base) : W (866) × H(713) × D (583)**

**Packaging dimension : W (1017) × H (850) × D (755)**

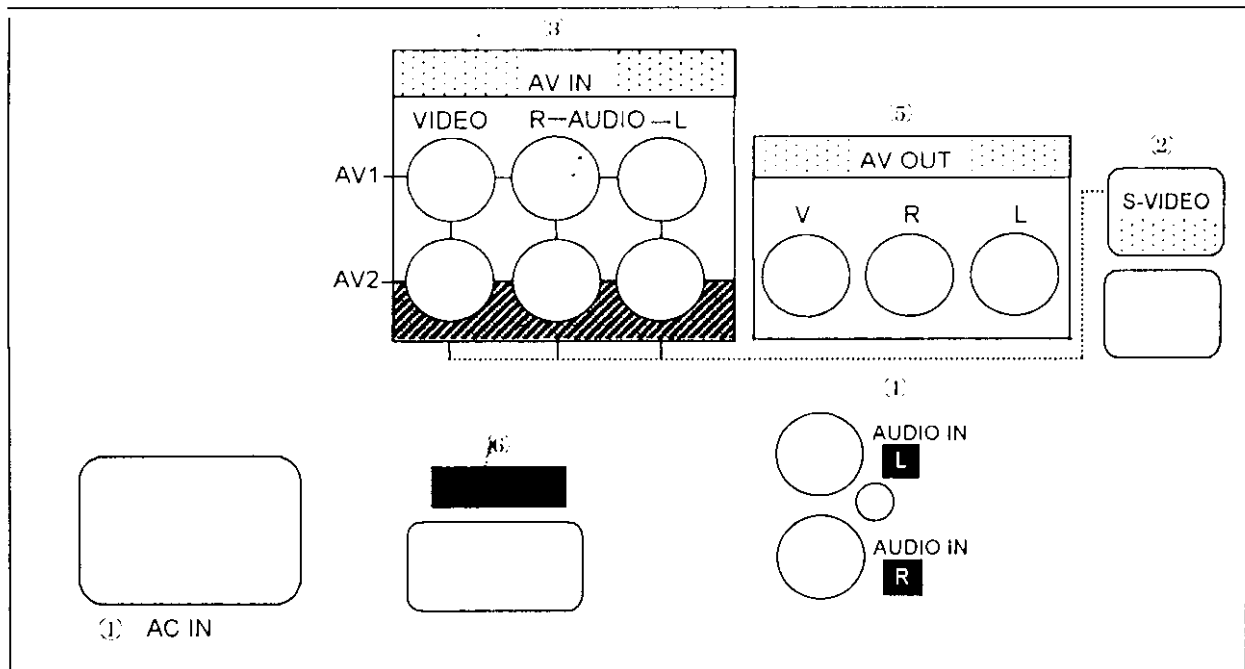
**10. Net weight of unit : 71 Kg**

**11. The table below is required timings and technical description for the 34" tube. (H=620mm, V=465mm standard size)**

Mode No	1	2	3	4	5	6	7	8	
Resolution & Refresh	640x480	640x480	720x400	640x480	800x600	800x600	640x480	800x600	
Rate	60	72	70	66.6	60.317	56.25	85	72	Hz
Pixel timing +/- .5%	39.722	31.746	35.311	33.06	25	27.8	36	50	nsec
Hor. visible	640	640	720	640	800	800	640	800	dots
Hor. total	800	832	900	864	1056	1024	832	1040	dots
Hor. front porch	16	16	18	64	40	24	56	56	dots
Hor. sync	96	40	108	64	128	72	56	120	dots
Hor. back porch	48	136	54	96	88	128	80	64	dots
Hor. blanking time	160	192	180	224	256	224	192	240	dots
Ver. Visible	480	480	400	480	600	600	480	601	lines
Ver. Total	525	520	449	525	628	625	509	667	lines
Ver. Front porch	10	1	12	3	1	1	1	1	lines
Ver. Sync	2	3	2	3	4	2	3	6	lines
Ver. Back porch	33	36	35	39	23	22	22	23	lines
Ver. Blanking time	45	40	49	45	28	25			lines
Hor. Frequency	31.469	37.861	31.467	35	37.879	35.156	43.27	48.09	KHz
Vor. Frequency	59.940	72.809	70.082	66.667	60.317	56.250	85	72	Hz
Ver. Sync polarity	-	-	+	-	+	+	-	+	TTL
Hor. Sync polarity	-	-	-	+	+	+	-	+	TTL
Bandwidth	25.2	31.2	28.3	30.204	40	35.97	27.7	20	MHz

**The SYNC-ON-GREEN recall is just proper MODE 4.**

## CONNECTING YOUR DISPLAY



1. **AC IN** : This terminal is for AC power cord.
2. **S-VIDEO** : This terminal (select AV2 mode) is for S-VIDEO signal cable, used with S-VIDEO equipment.
3. **AV IN** : These terminals are for video and stereo sound signals, used with video equipment.
4. **RGB AUDIO IN** : These terminals are for sound signal when monitor is in RGB mode.
5. **AV OUT** : These terminals can output video and sound signals that your monitor is using.
6. **RGB IN** : This terminal is for RGB analog signal, use with IBM PC and other compatibles.

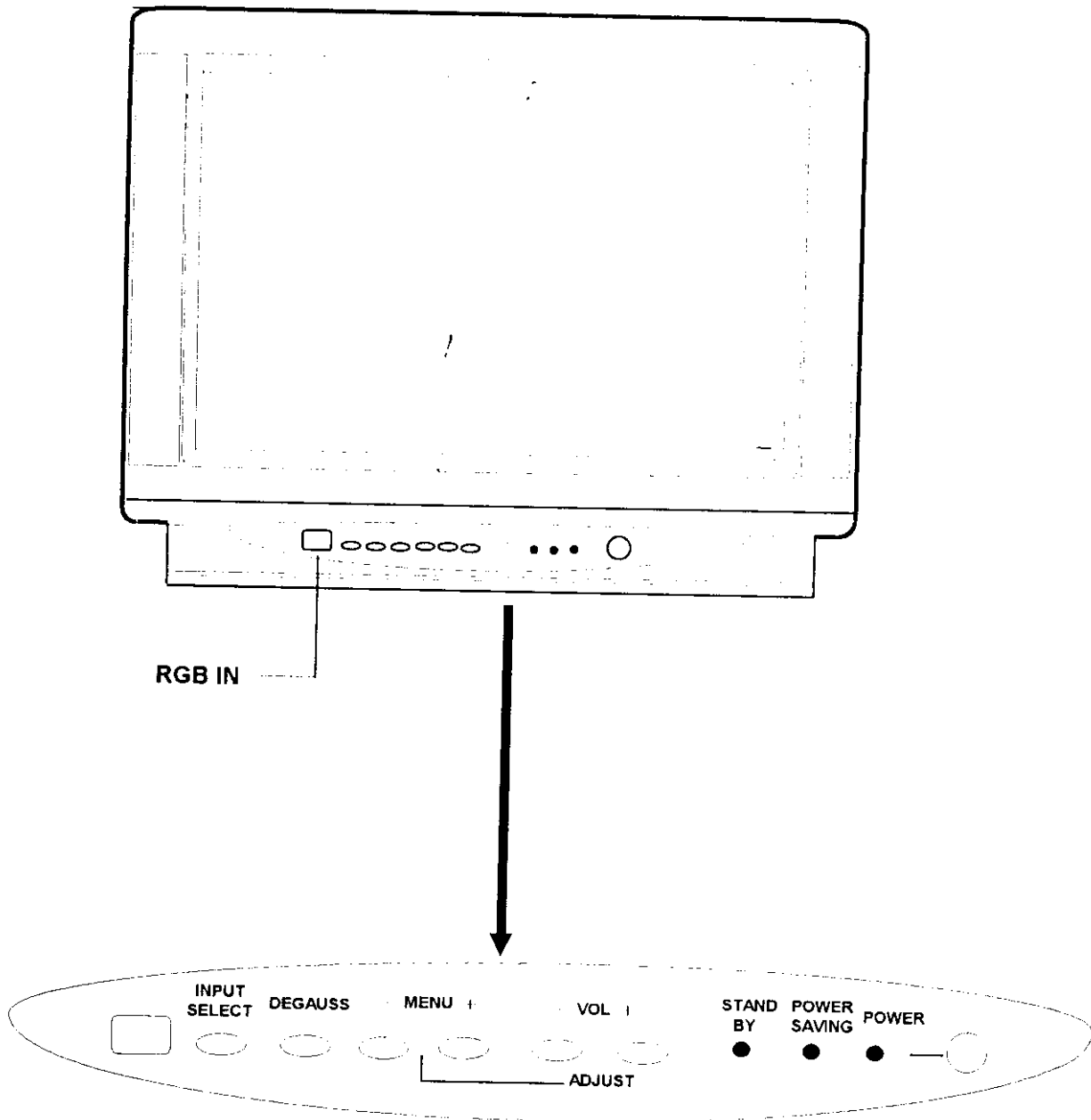
### NOTE :

1. Please follow the above description when connecting your display.
2. If front RGB IN and rear RGB IN are connected simultaneously, front RGB IN has priority. To prevent interference, disconnect the rear RGB IN signal when the front RGB IN signal is in use.



## LOCATION OF CONTROL (ON FRONT PANEL)

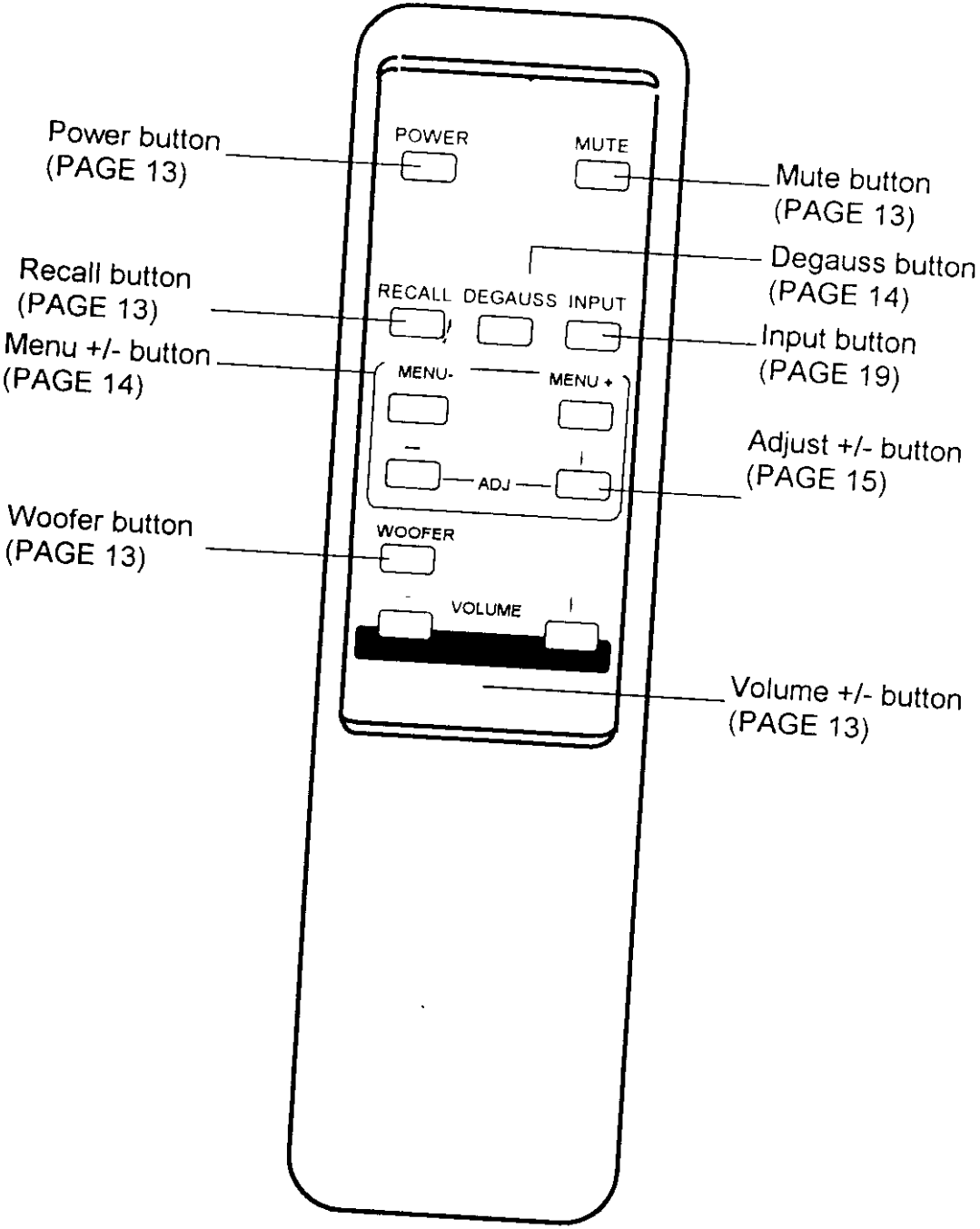
Front view



### NOTE :

1. RGB IN: Is used to Connect the RGB signal. For IBM PC and other compatibles.
2. The RGB INPUT terminals in the front and rear panels have the same function. They can connect to the signal source (PC) simultaneously. To prevent interference, do not switch the two signal sources (PC) on simultaneously.

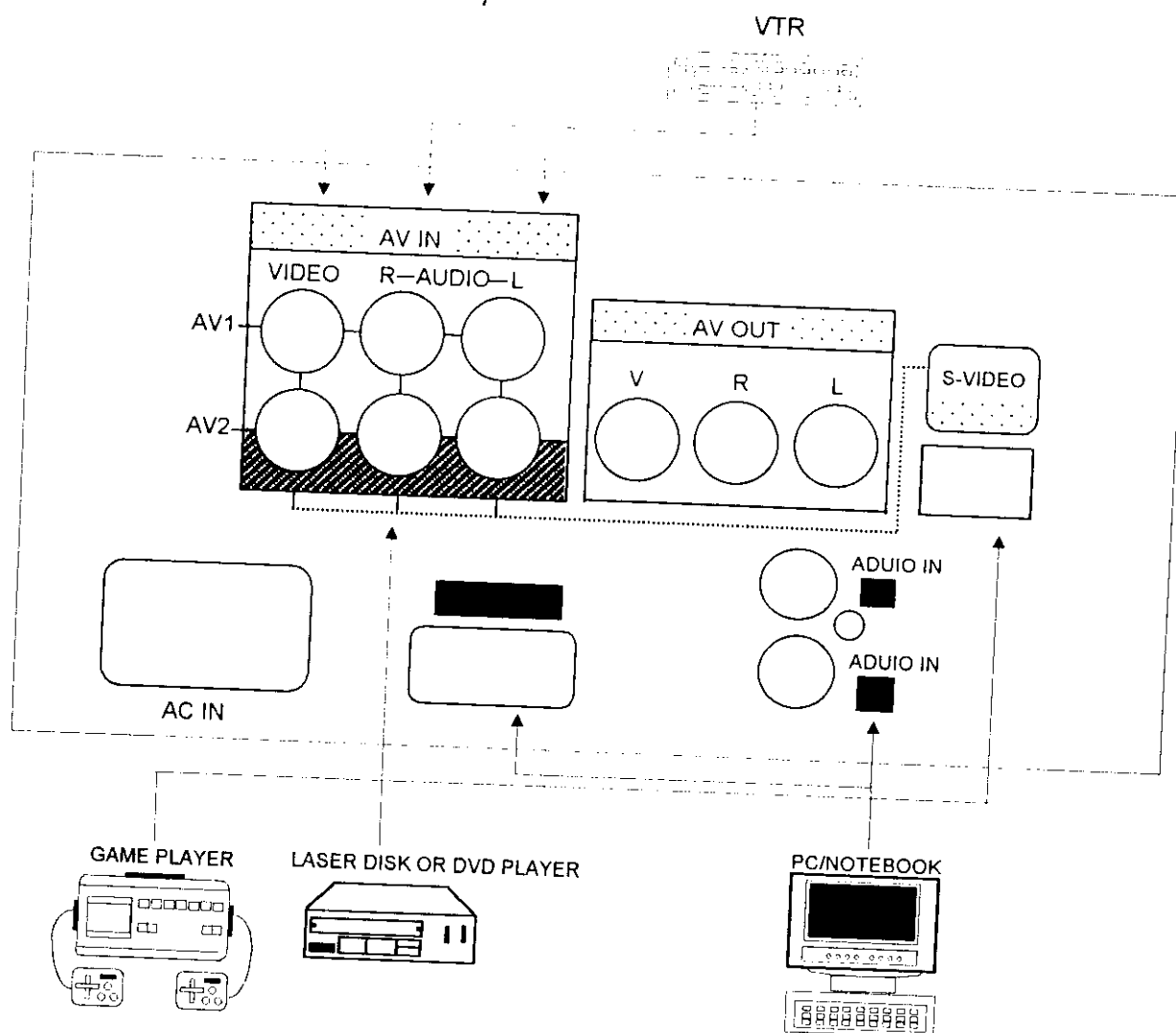
# LOCATION OF CONTROL ( ON REMOTE CONTROL)



# INSTALLATION

1. Before you connect any cables, refer to the safety instructions at the beginning of this manual and make sure your computer ( or video equipment ) and display are switched off .
2. Connect the video cable (AV, S-Video or RGB cable) and audio cable to your monitor.
3. Connect the AC power cord to your monitor.
4. Plug the AC power cord to a properly grounded outlet.
5. Turn on your computer or video equipment.
6. Turn on your monitor's power by pushing the power button. The power indicator should be illuminated.

**NOTE :** If the button does not function due to interference, disconnect from the mains for 10 seconds. Then reconnect and turn the power on.



## USING THE MONITOR'S ADVANCED FEATURES

The " Multi-Media Monitor" feature advanced on screen adjustment for optimal viewing. To access the advanced features, open the access panel by pressing the center of the door on the set or use the remote control.

### POWER



Press the power button, when the green LED (power) lights up, the power is ON. Press the button again, the green LED disappears and the red LED (stand by) lights up indicating that the power is OFF.

The following audio functions are available only if speakers are attached.

### - VOLUME +



Press and hold the Volume + button to increase the volume level. Press and hold volume - button to decrease the volume level. The Volume +/- button on front panel become ADJ +/- button , after the menu window appears on screen.

### MUTE



R/C ONLY

Use this button to quickly turn off the sound being heard through the speakers. To enable the mute function simply press the button. (Once pushed, the on screen display will appear next to the button indicating that the mute function is enabled). To disable the mute function, simply press the button again, the On Screen Display will disappear and sound will be restored from the speakers.

### RECALL



R/C ONLY

Press this button to return the display to the factory pre-set default value. No recall item:

RGB : Rotation

### WOOFER



R/C ONLY

Press this button to switch the woofer ON or OFF.

Each time the button is pressed, the on screen display will appear "woofer on", "woofer off" in turn.

## DEGAUSS



Each time you turn on your monitor it is automatically degaussed. Degaussing keeps the display free from unwanted magnetism that can result in color impurity. If you leave your display on continuously, we recommend that you degauss it at least every few days to remove any color impurities. Press the degauss button, then degaussing is accompanied by brief instability of the displayed image and a brief humming sound. A minimum of 20 minutes should be observed between each use of the manual degauss button.

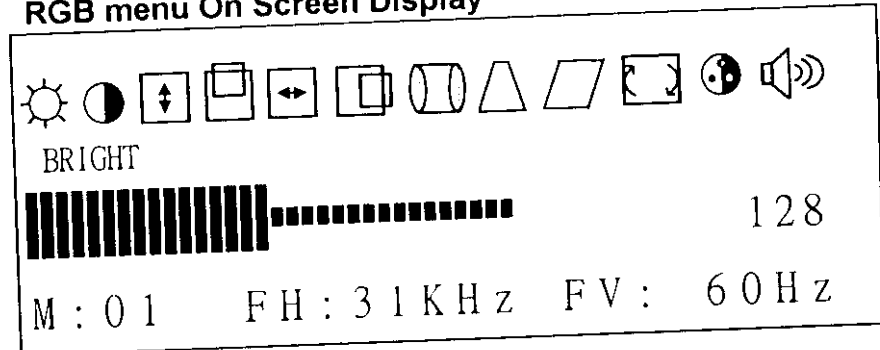
## MENU - MENU +



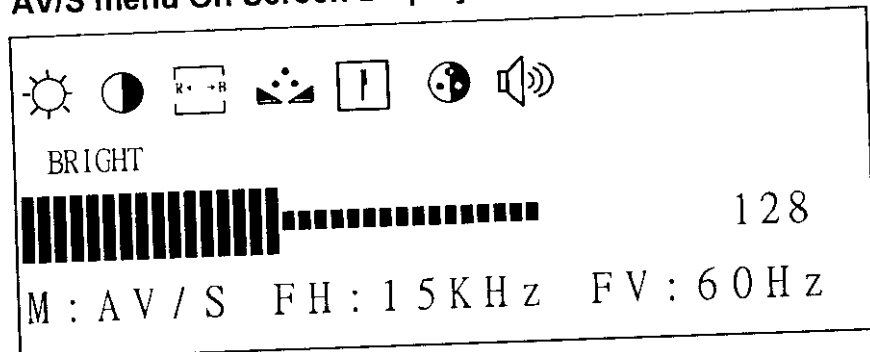
To view the monitor current settings press menu +/- button and an On Screen Display window appears. The last line of the window reports the current resolution and frequency settings. The first line of the window displays the master picture menu and the setting of a selected feature.

The On Screen Display menus of RGB mode and AV/S mode appear below.

### RGB menu On Screen Display

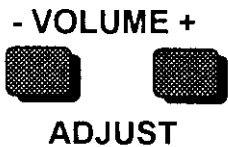


### AV/S menu On Screen Display



To change monitor settings of the Master Picture Menu, you must choose a category, and then adjust the value of each category. Here's how to select a category:

Press the menu + or menu - button while the master picture menu is on screen.



Each time the menu + button is pressed, a menu icon shows red for selection. Beginning with the starting position, and moving to the right, pressing the menu + button continuously will circulate the selector, eventually returning to the starting position.

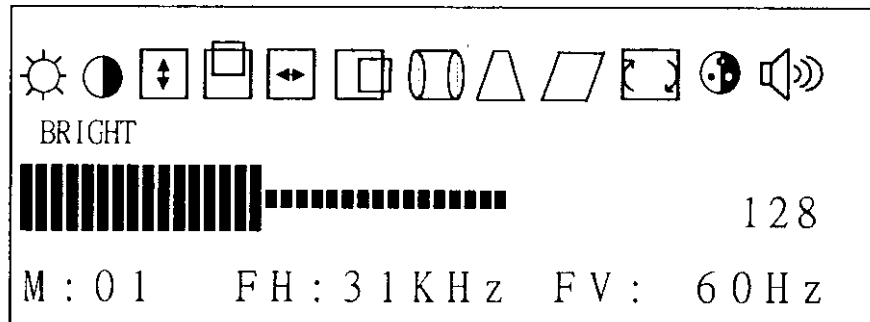
Press the menu - button, and it will select menu icon in the opposite direction, eventually returning to the starting position.

After you have selected a category, you can increase or decrease a display setting. Here's how to adjust a setting:

Press the menu +/- button. While the master picture menu is on screen, use the menu + or menu - select key to choose a category. Once you have selected a category, press the ADJ + or ADJ - button. Each time the ADJ + adjust button is pressed, the settings for the category selected will increase. Each time the ADJ- button is pressed, the settings for the category selected will decrease.

You can adjust monitor settings for the following categories:

•RGB menu On Screen Display



•**Brightness.** Select this icon to adjust the overall picture brightness (image black level). Set the brightness so that the dark areas of the monitor remain black. Press the ADJ - button to decrease brightness. Press the ADJ + button to increase brightness.



•**Contrast.** Select this icon to adjust the contrast (image white level). Contrast is the difference in brightness between the dark and light parts of the displayed image. Press the ADJ- button to decrease contrast. Press the ADJ + button to increase contrast.



• **V-Size.** Select this icon to adjust the vertical size of the displayed image. Press the ADJ - button to decrease V-Size. Press the ADJ + button to increase V-Size.



• **V-Center.** Select this icon to adjust the vertical position of the displayed image. Press the ADJ- button to decrease V-Position. Press the ADJ+ button to increase V-Position.



• **H-width.** Select this icon to adjust the horizontal size of the displayed image. Press the ADJ- button to decrease H-Width. Press the ADJ + button to increase H-Width.



• **H-phase.** Select this icon to adjust the horizontal position of the displayed image. Press the ADJ- button to decrease H-Phase. Press the ADJ + button to increase H-Phase.



• **Pincushion.** Select this icon to adjust the amount of tapering on each side of the displayed image. Press the ADJ- button to decrease the amount of side pincushion. Press the ADJ + button to increase the amount of side pincushion.



**Trapezoid.** Select this icon to adjust the trapezoid. Press ADJ - button to let the upper screen move to centre and lower screen move to outside. Press ADJ + button to let the upper screen move to outside and lower screen move to centre.



**Parallelogram.** Select this icon to adjust the parallelogram. Press ADJ + button to let the screen slant to left side and press ADJ - button to let the screen slant to right side.



**Rotation.** Select this icon to adjust the screen tilt of the displayed image. This is used to compensate for earth magnetic field effect on the monitor.



**R-GAIN** Select this icon to change the gain of red.



**G-GAIN**. Select this icon to change the gain of green.



**B-GAIN** Select this icon to change the gain of blue.



**BASS**. Select this icon to adjust bass of sound.



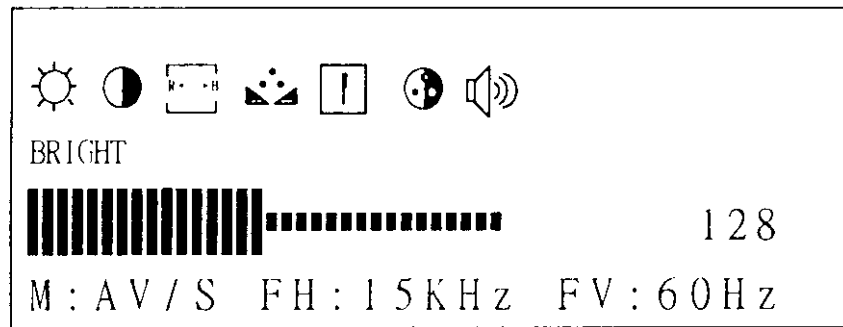
**TREBLE**. Select this icon to adjust treble of sound.



**BALANCE**. Select this icon to adjust balance of sound.



## AV/S menu on screen display



**BRIGHT.** Select icon to adjust the overall picture brightness (image black level). Set the brightness so that the dark areas of the monitor remain black. Press the ADJ - button to decrease brightness. Press the ADJ + button to increase brightness.



**CONTRAST.** Select this icon to adjust the contrast (image white level). Contrast is the difference in brightness between the dark and light parts of the displayed image. Press the ADJ - button to decrease contrast. Press the ADJ + button to increase contrast.



**COLOR.** Select this icon to adjust the color of the displayed image. Press the ADJ - button to decrease color. Press the ADJ + button to increase color.



**TINT.** Select this icon to adjust the tint of the displayed image. Press the ADJ + button to increase green. Press the ADJ - button to increase red.

If PAL system in AV mode, and in PAL signal input, this icon will not work.



**SHARPNESS.** Select this icon to adjust the sharpness of the displayed image. Press the ADJ - button to decrease sharpness. Press the ADJ + button to increase sharpness.



**R-GAIN.** Select this icon to change the gain of red.



**G-GAIN.** Select this icon to change the gain of green.



**B-GAIN.** Select this icon to change the gain of blue.



**BASS.** Select this icon to adjust bass of sound.



**TREBLE.** Select this icon to adjust treble of sound.



**BALANCE.** Select this icon to adjust balance of sound.

## INPUT



Press this button to select the mode of display . Each time the input button is pressed, the on screen display will appear " AV1", "AV2" , "RGB" in turn.



## Power Management Function

The following is a description of the power states and the power consumed in each state :



MODE	LED	H-SYNC	V-SYNC	VIDEO	POWER CONSUMPTION
on	green	pulse	pulse	active	normal
power saving	yellow	no pulse	pulse	blanked	<30W
power saving	yellow	pulse	no pulse	blanked	<30W
power saving	yellow	no pulse	no pulse	blanked	<30W

**Note :** 1. The power management function requires TTL horizontal and vertical sync.

2. Power saving is invalid if display is in AV mode.

## TROUBLE SHOOTING

The following list represents possible anomalies you may encounter and subsequent troubleshooting procedures. Please refer to this checklist prior to contacting a service representative.

Trouble condition	Cause	Remedy
No picture	<ol style="list-style-type: none"> <li>1. Power cord disconnected?</li> <li>2. Power switch on?</li> <li>3. Signal cable properly connected?</li> <li>4. Monitor in power save mode?</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect power cord.</li> <li>2. Turn the power switch on.</li> <li>3. Connect the signal properly.</li> <li>4. Press any key on your computer.</li> </ol>
Color is abnormal	<ol style="list-style-type: none"> <li>1. Magnetic object nearby?</li> <li>2. Direction of screen changed during operation?</li> <li>3. Signal cable properly connected?</li> </ol>	<ol style="list-style-type: none"> <li>1. Move object farther away.</li> <li>2. Wait about 10 minutes after turning OFF the power switch, then turn power switch on so that degauss circuit within monitor starts.</li> <li>3. Connect signal cable properly.</li> </ol>
Picture runs	<ol style="list-style-type: none"> <li>1. Signal cable properly connected?</li> <li>2. Input signal outside of the required frequency range?</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect signal cable properly.</li> <li>2. Input signals which are within the frequency range.</li> </ol>
Display image is too dark	Brightness and contrast at minimum?	Adjust brightness and contrast.
Display image is too large or small	<ol style="list-style-type: none"> <li>1. Horizontal control needs adjusting?</li> <li>2. Vertical control needs adjusting?</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust to desired size.</li> <li>2. Adjust to desired size.</li> </ol>
Image is distorted	<ol style="list-style-type: none"> <li>1. Is the earth's magnetic field interfering with display?</li> <li>2. Does the picture appear  or  ?</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the rotation adjustment value.</li> <li>2. Adjust the pincushion to propose value.</li> </ol>
Button is not in function	<ol style="list-style-type: none"> <li>1. Check the battery is OK?</li> <li>2. Is it because of outside interference?</li> </ol>	<ol style="list-style-type: none"> <li>1. Change the battery.</li> <li>2. Pull the AC CORD out for 10 seconds. Then plug it again and turn the power on.</li> </ol>