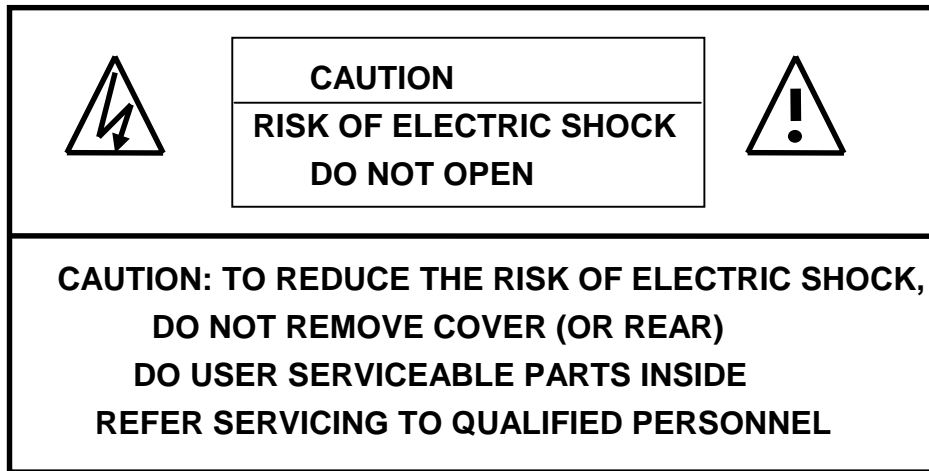


# SAMPO

**34" MULTIMEDIA MONITOR  
SERVICE MANUAL  
MODEL : SME-32HD5**

## 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<sup>®</sup> Partner, SAMPO CORPORATION has determined that this product meets the ENERGY STAR<sup>®</sup> 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.**

## **IMPORTANT SAFETY INSTRUCTION**

Prior to using this product, please ensure that you have carefully read and understood all the procedures outlined in this user's manual.

1. Read all of these instructions.
2. Save these instructions for later use.
3. Follow all warnings and instructions marked on the product.
4. Disconnect from the mains supply before cleaning. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth for cleaning.
5. Do not use this product near water.
6. Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage.
7. Slots and openings in the cabinet located at the back and underneath are provided for ventilation . To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat source. This product should not be placed in an enclosed installation unless proper ventilation is provided.
8. This product should be operated from the type of power source indicated on the marketing label. If you are not sure of the type of power available, consult your dealer or local power company.
9. This product is equipped with a 3-pin earthed plug, a plug having a third(grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the grounding-type plug.
10. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on or be tripped up by the cord.

## **IMPORTANT SAFETY INSTRUCTION**

- 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.**

## **Wichtige Sicherheitshinweise**

- 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.

## SPECIFICATIONS:

MULTIMEDIA MONITOR	36" (16:9)	34" (4:3)	29" (4:3)
<b>1. Cathode ray tube</b>			
a. tube size	36 inch (16:9 Aspect Ratio)	34 inch (32 inch viewable)	29 inch (27 inch viewable)
b. Dot pitch	H=0.82mm	H=0.8mm	H=0.74mm, V=0.64mm
c. Light transmission	76% (center)	35% typical	49% typical
<b>2. Power</b>			
a. Input voltage	100 Vac ~ 240 Vac 60Hz / 50Hz	100 Vac ~ 240 Vac 60Hz / 50Hz	100 Vac ~ 240 Vac 60Hz / 50Hz
b. Input current	3A at 110Vac / 60Hz Max	3A at 110Vac / 60Hz Max	3A at 110Vac / 60Hz Max
c. Power consumption	200 Watts(Max)	220 Watts(Max)	180 Watts(Max)
<b>3. Input signal</b>			
Video signal			
a. Type	Analog	Analog	Analog
b. Polarity	Positive	Positive	Positive
c. Amplitude	RGB: 0.714 Vp-p Y PB PR: 1Vp-p (with sync) AV: 1Vp-p (with sync) Y CB CR: 1Vp-p (with sync)	RGB: 0.714 Vp-p Y PB PR: 1Vp-p (with sync) AV: 1Vp-p (with sync) Y CB CR: 1Vp-p (with sync)	RGB: 0.714 Vp-p Y PB PR: 1Vp-p (with sync) AV: 1Vp-p (with sync) Y CB CR: 1Vp-p (with sync)
d. Input impedance	75 ohms	75 ohms	75 ohms
e. Dot rate	75 MHz(Max.)	75 MHz(Max.)	75 MHz(Max.)
Audio Signal			
a. Type	Analog	Analog	Analog
b. Polarity	1.0Vp-p	1.0Vp-p	1.0Vp-p
c. Amplitude	≥ 10KΩ	≥ 10KΩ	≥ 10KΩ
Horizontal sync			
a. Type	TTL	TTL	TTL
b. Polarity	Positive or negative	Positive or negative	Positive or negative
c. Input impedance	1K ohm(Min)	1K ohm(Min)	1K ohm(Min)
d. Frequency	RGB: 31 KHz ~ 52 KHz Y PB PR: 31KHz~45KHz AV/Y CB CR: 15.734 KHz (NTSC) 15.625 KHz (PAL)	RGB: 31 KHz ~ 52 KHz Y PB PR: 31KHz~45KHz AV/Y CB CR: 15.734 KHz (NTSC) 15.625 KHz (PAL)	RGB: 31 KHz ~ 52 KHz Y PB PR: 31KHz~45KHz AV/Y CB CR: 15.734 KHz (NTSC) 15.625 KHz (PAL)
Vertical sync			
a. Type	TTL	TTL	TTL
b. Polarity	Positive or negative	Positive or negative	Positive or negative
c. Input impedance	1K ohm(Min)	1K ohm(Min)	1K ohm(Min)
d. Frequency	RGB: 50 Hz ~ 120 Hz Y PB PR: 60 Hz AV/Y CB CR: 60 Hz (NTSC) 50 Hz (PAL)	RGB: 50 Hz ~ 120 Hz Y PB PR: 60 Hz AV/Y CB CR: 60 Hz (NTSC) 50 Hz (PAL)	RGB: 50 Hz ~ 120 Hz Y PB PR: 60 Hz AV/Y CB CR: 60 Hz (NTSC) 50 Hz (PAL)
<b>4. Connector type</b>	15 pin D-type and RCA JACK and S-terminal	15 pin D-type and RCA JACK and S-terminal	15 pin D-type and RCA JACK and S-terminal
<b>5. Horizontal size</b>	725 +/- 8 mm (for RGB mode 1-9)	620 +/- 8 mm (for RGB mode 1-9)	520 +/- 6 mm (for RGB mode 1-9)
Vertical size	408 +/- 8 mm (for RGB mode 1-9)	465 +/- 8 mm (for RGB mode 1-9)	388 +/- 6 mm (for RGB mode 1-9)



## SPECIFICATIONS:

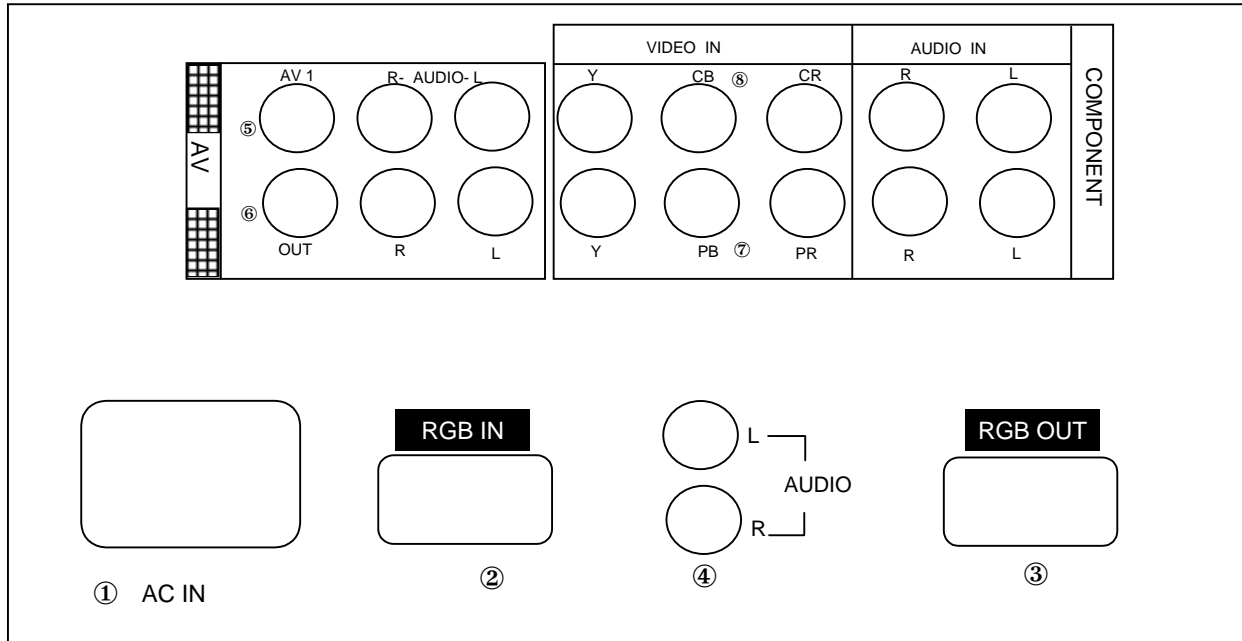
- | MULTIMEDIA MONITOR   | 36" (16:9)   | 34" (4:3)        | 29" (4:3)       |
|--|--|------------------|-----------------|
| 6. Unit dimension:<br>W x H x D (mm)                                     | 1000 x 636 x 695   | 866 x 718 x 583  | 742 x 575 x 512 |
| Packaging dimension :<br>W x H x D (mm)                                  | 1165 x 870 x 900   | 1030 x 870 x 760 | 880 x 647 x 580 |
| 7. Net weight of unit :  | 87 Kg  | 71 Kg            | 51 Kg           |
| 8. 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, WIDE. |                  |                 |
| 9. Operating temperature:  | 0°C to 40°C  |                  |                 |
| 10. 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     |                 |
| 11.  |  |                  |                 |
| a. The table below is required timings and technical description for the |  |                  |                 |
| 36" tube (H=725mm, V=408mm standard size),                               |  |                  |                 |
| 34" tube (H=620mm, V=465mm standard size),                               |  |                  |                 |
| 29" tube (H=520mm, V=388mm standard size).                               |  |                  |                 |

Mode No.	1	2	3	4	5	6	7	8	9	HDTV①	HDTV②	
Resolution	640	640	720	640	800	800	640	800	1024	1280	1920	
&	480	480	400	480	600	600	480	600	768	720	1080	
Refresh Rate	60	72	70	66.6	60.317	56.25	85	72	60	60	60	Hz
Pixel timing +/- .5%	39.722	31.746	35.311	33.06	25	27.8	36	50	15.385	13.468	13.468	n Sec
Horizontal visible	640	640	720	640	800	800	640	800	1024	1280	1920	Dots
Horizontal total	800	832	900	864	1056	1024	832	1040	1344	1650	2200	Dots
Horizontal front porch	16	16	18	64	40	24	56	56	40	112	80	Dots
Horizontal sync	96	40	108	64	128	72	56	120	145	76	76	Dots
Horizontal back porch	48	136	54	96	88	128	80	64	105	72	36	Dots
Hor blanking time	160	192	180	224	256	224	192	240	290	260	192	Dots
Vertical visible	480	480	400	480	600	600	480	601	768	720	1080	Lines
Vertical total	525	520	449	525	628	625	509	667	806	750	1125	Lines
Vertical front porch	10	1	12	3	1	1	1	1	1	5	2	Lines
Vertical sync	2	3	2	3	4	2	3	6	6	5	5	Lines
Vertical back porch	33	36	35	39	23	22	22	23	29	20	15	Lines
Vertical blanking time	45	40	49	45	28	25	26	30	36	30	22	Lines
Horizontal frequency	31.469	37.861	31.467	35	37.879	35.156	43.27	48.09	48.363	45.1515	33.78	KHz
Vertical frequency	59.940	72.809	70.082	66.667	60.317	56.250	85	72	60	60	60	Hz
Vertical sync polarity	-	-	+	-	+	+	-	+	-	-	-	TTL
Hor sync polarity	-	-	-	+	+	+	-	+	-	-	-	TTL
Dot rate	25.2	31.2	28.3	30.204	40	35.97	36	50	65	74.25	74.25	MHz

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

- b. YPBPR mode: mode 1 : 1080i (H=33KHz, V=60Hz)  
mode 2 : 720p (H=45KHz, V=60Hz)

## CONNECTING YOUR MONITOR



**1. AC IN:** This terminal is for AC power cord.

**2. RGB IN:** This terminal is for RGB analog signal, use with IBM PC and other compatibles.

**3. RGB OUT:** This terminal can output RGB analog signal that your monitor is using.

(\* This terminal is for rear RGB in Signals )

**4. RGB AUDIO IN:** These terminals are for sound signal when monitor is in RGB mode.

**5. AV IN:** These terminals are for video and stereo sound signals, used with video equipment.

**6. AV OUT:** These terminals can output video and sound signals that your monitor is using.

**7. Y PB PR:** This terminal is for Y PB PR signal and stereo sound signals, used with Y PB PR equipment.

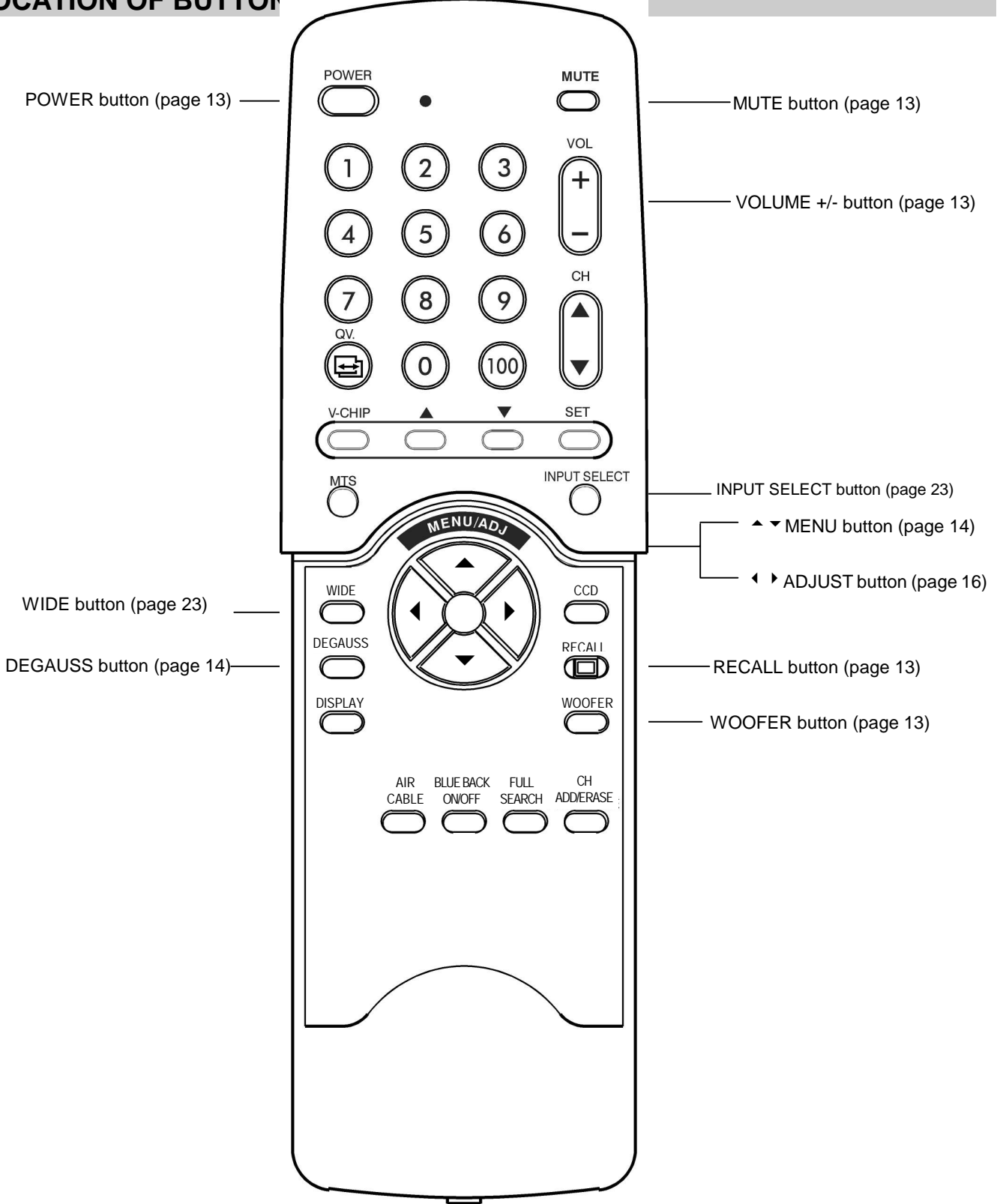
**8. Y CB CR:** This terminal is for Y CB CR signal and stereo sound signals, used with Y CB CR equipment.

### NOTE :

1. Please follow the above description when connecting your display.

2. This terminal (AV OUT) only supply the AV1 or AV2 type signal not supply the Y PB PR and Y CB CR type signal.

# LOCATION OF BUTTONS ON REMOTE CONTROL



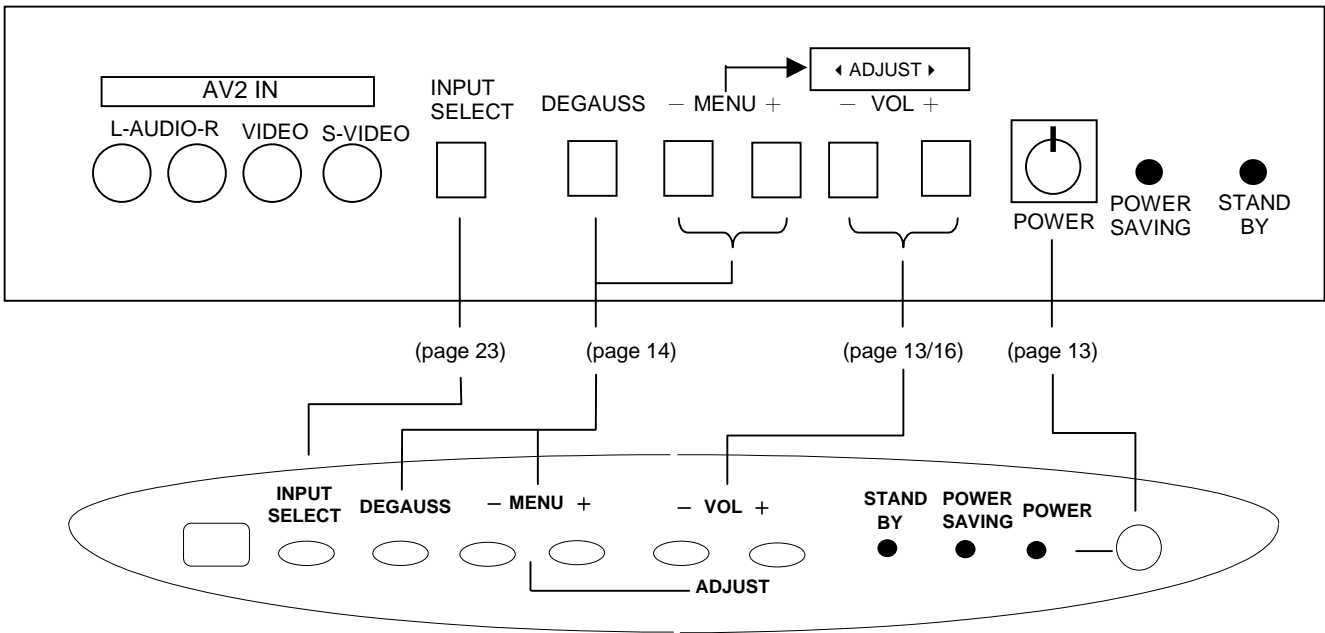
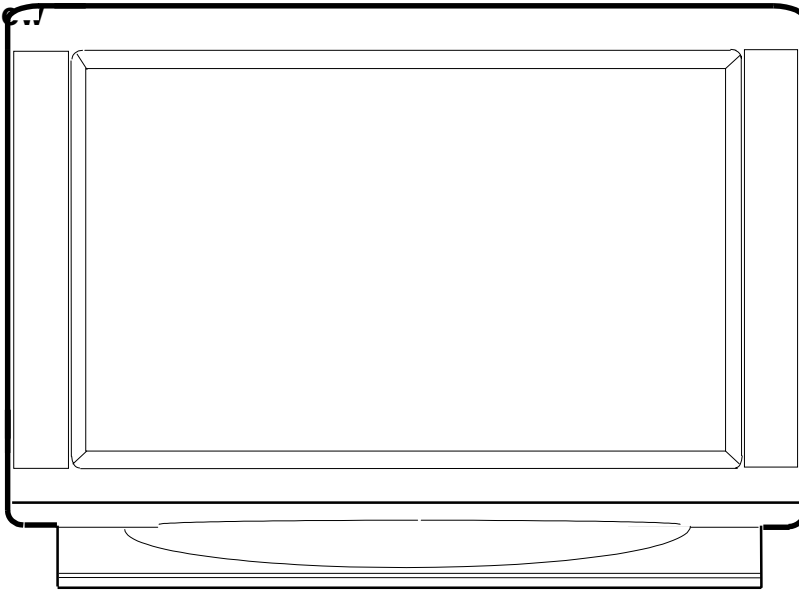
## The used condition of R/C 's key

For monitor used	POWER、MUTE、DEGAUSS、MENU+、MENU-、INPUT SELECT ADJ+、ADJ-、VOLUME+、VOLUME-、WOOFER、RECALL、WIDE
For tuner card used (OPTIONAL)	MTS,CHANNEL+,CHANNEL-,CH ADD/ERASE,FULL SEARCH,CCD,BLUE BACK ON/OFF,AIR/CABLE,DISPLAY,0~9,100,QV,SET,▼,▲,V-CHIP

NOTE: This remote control can be used for monitor and tuner card (OPTIONAL).

# LOCATION OF CONTROL (ON FRONT PANEL)

Front view



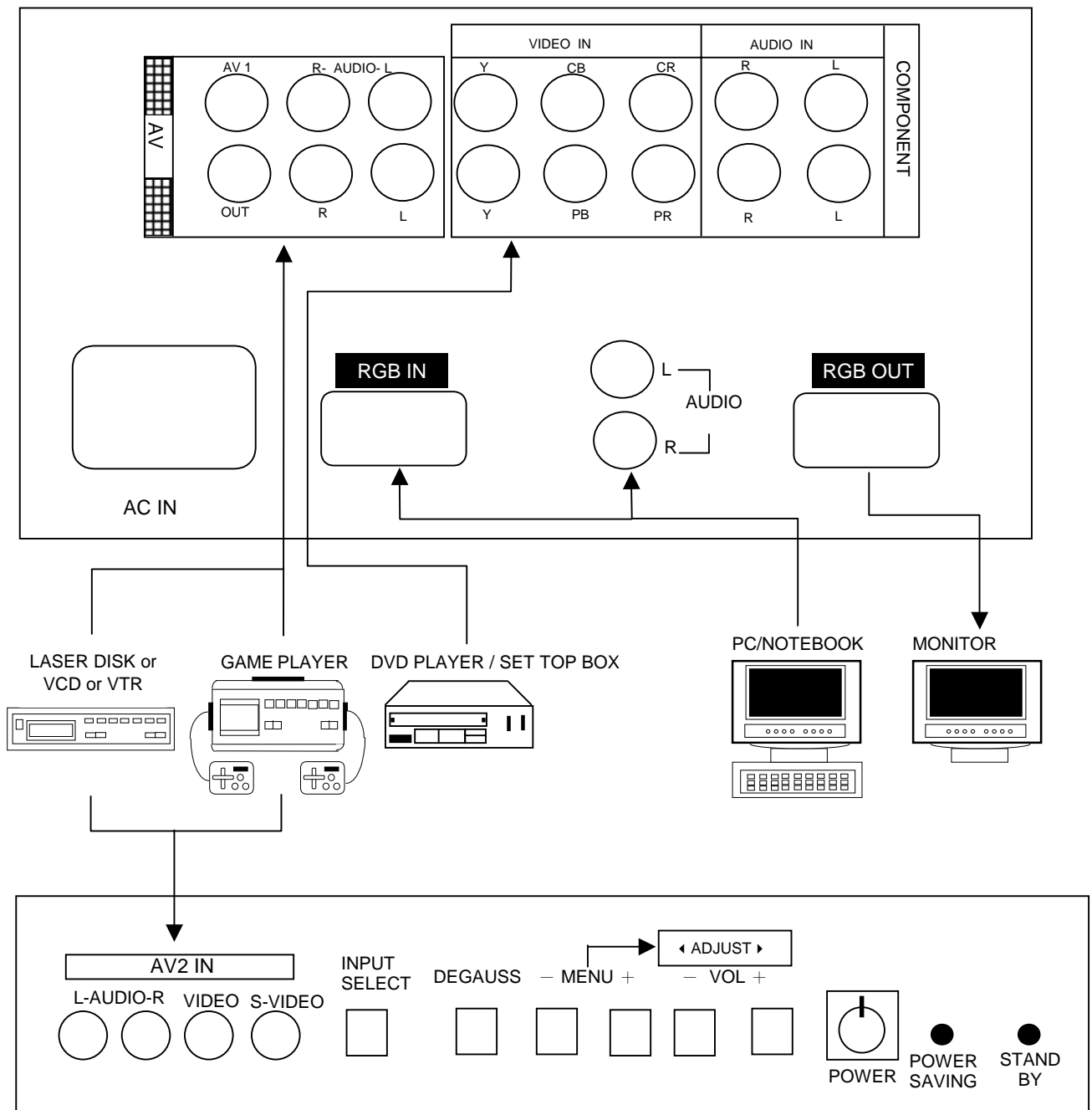
**NOTE:**

1. AV2 IN: These terminals are for video and stereo sound signals, used with video equipment .
2. This terminal (select AV2 mode) is for S-VIDEO signal cable, used with S-VIDEO equipment.

## 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 "Digital vision" 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 functions 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  
Y PB PR: 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.

## USING THE MONITOR'S ADVANCED FEATURES

### 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 degausses button.

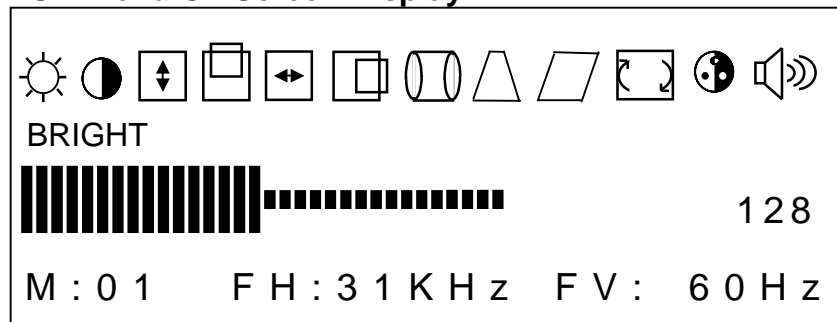
### MENU - MENU +



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 TV/AV mode, Y CB CR, Y PB PR mode appear below.

#### RGB menu On Screen Display

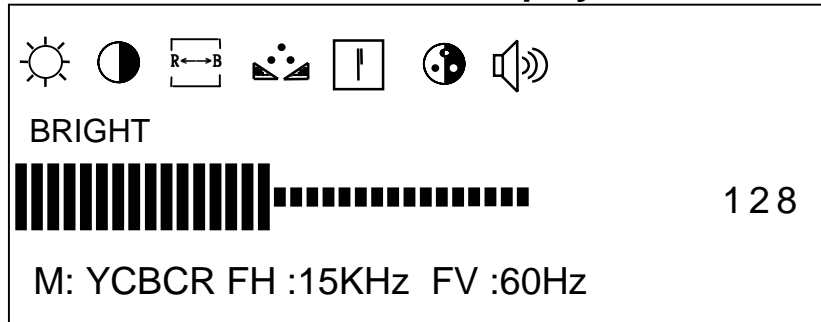


#### TV/AV menu On Screen Display

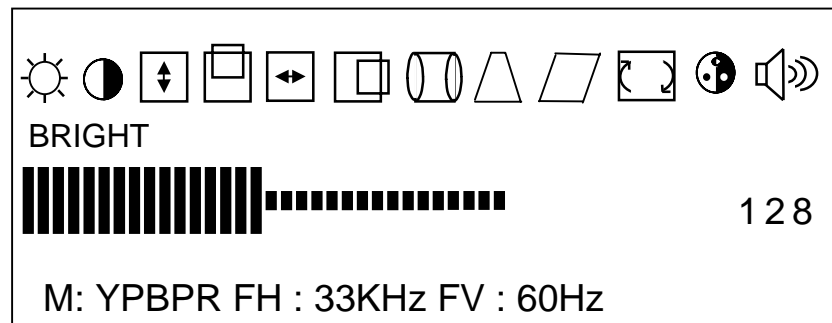


## USING THE MONITOR'S ADVANCED FEATURES

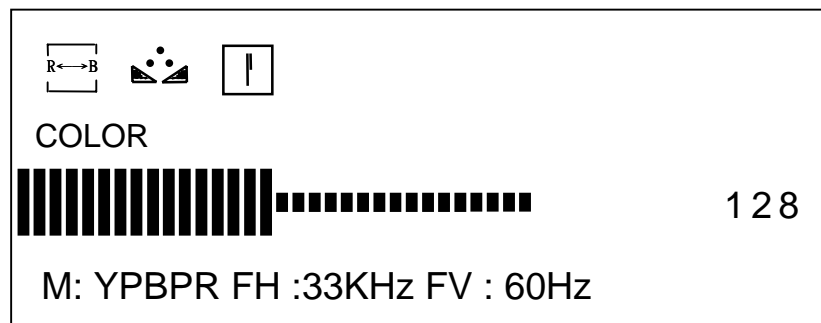
### Y CB CR menu on screen display:



### Y PB PR menu on screen display (Menu 1)



### (Menu 2)



To change monitor setting 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:

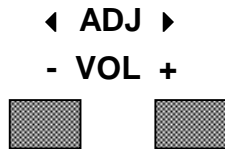
Press the menu + or menu – button while the master picture menu is on screen.

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.



## USING THE MONITOR'S ADVANCED FEATURES

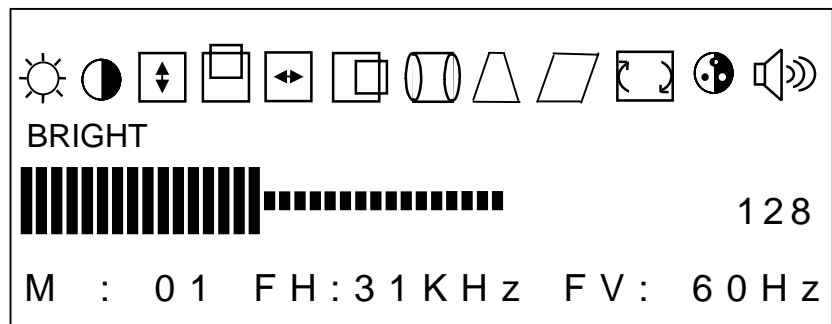


After you have selected a category, you can increase or decrease a display setting. Here's how to adjust a setting:

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



**BRIGHT.** 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.

## USING THE MONITOR'S ADVANCED FEATURES



**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.



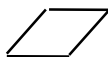
**H-PHASE.** Select this icon to adjust the horizontal position of the displayed image. Press the ADJ- button to decrease H-Phase. Press the ADJ + button to increase H-Phase.



**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 center and lower screen move to outside. Press ADJ + button to let the upper screen move to outside and lower screen move to center.



**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.



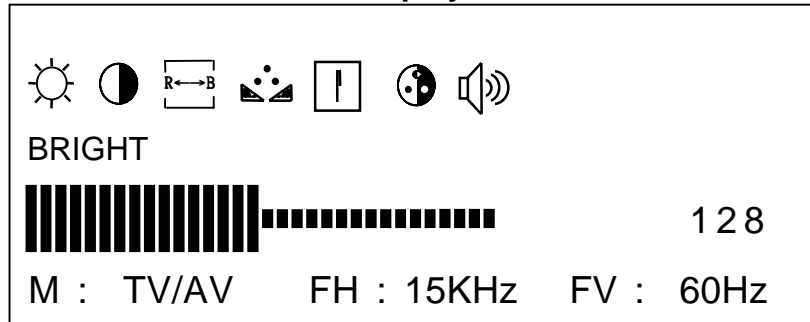
**TREBLE.** Select this icon to adjust treble of sound.



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

## USING THE MONITOR'S ADVANCED FEATURES

### TV/AV 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.

## USING THE MONITOR'S ADVANCED FEATURES



**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.

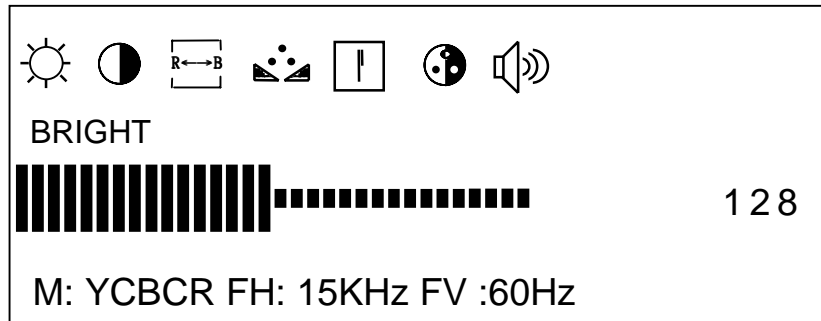


**TREBLE.** Select this icon to adjust treble of sound.



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

### Y CB CR 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.

## USING THE MONITOR'S ADVANCED FEATURES



**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.

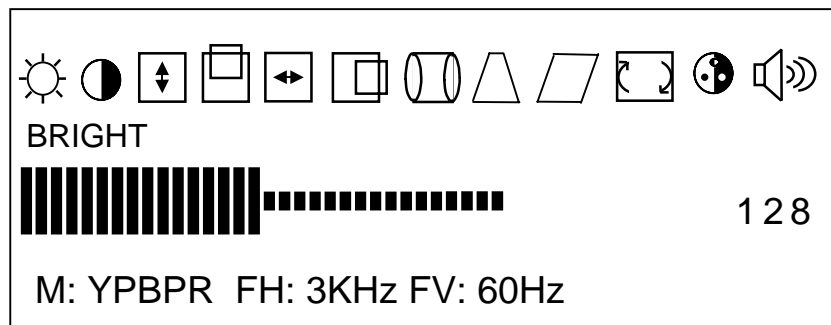


**TREBLE.** Select this icon to adjust treble of sound.



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

### Y PB PR menu On Screen Display (Menu 1)



**BRIGHT.** 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.

## USING THE MONITOR'S ADVANCED FEATURES



**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.



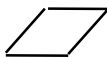
**H-PHASE.** Select this icon to adjust the horizontal position of the displayed image. Press the ADJ- button to decrease H-Phase. Press the ADJ + button to increase H-Phase.



**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 center and lower screen move to outside. Press ADJ + button to let the upper screen move to outside and lower screen move to center.



**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.

## USING THE MONITOR'S ADVANCED FEATURES



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

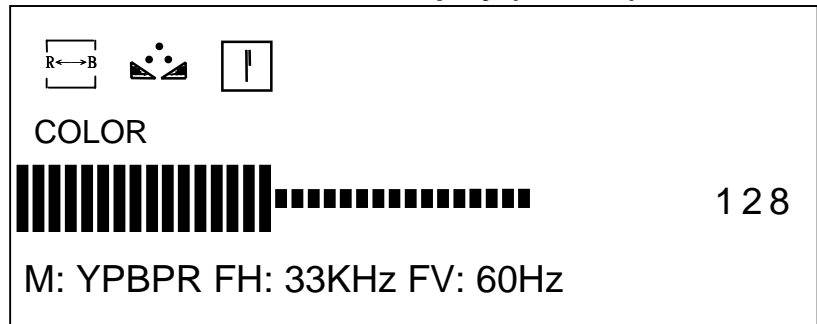


**TREBLE.** Select this icon to adjust treble of sound.



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

### Y PB PR menu on screen display (Menu 2)



**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.



**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.



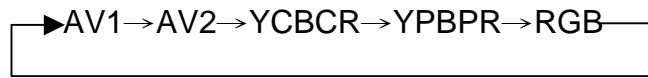
**BALANCE.** Select this icon to adjust balance of sound.

## USING THE MONITOR'S ADVANCED FEATURES

### INPUT



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



### WIDE



R/C ONLY

When the source of display is AV1 or AV2 or Y CB CR, Press this button to select the mode of display. Each time the WIDE button is pressed, the on screen display will appear "4:3", "16:9" in turn. This function button only to use for wide screen model serial.

## 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, Y CB CR, Y PB PR 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>

# MULTIMEDIA MONITOR

## **36" 16:9 PERFECTLY FLAT WIDE SCREEN MULTIMEDIA MONITOR**

34" 860mm VIEWABLE IMAGE

## **29", 34" 4:3 MULTIMEDIA MONITOR**

27" 676mm VIEWABLE IMAGE, 32" 806mm VIEWABLE IMAGE

USER MANUAL

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