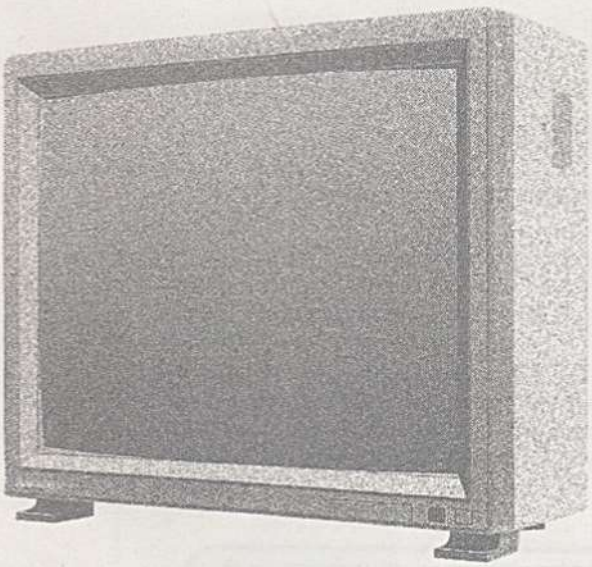
MITSUBISHI

AUTO-TRACKING
COLOR DISPLAY MONITOR

MODEL

XC-3730C

USER'S GUIDE



For future reference, record the serial number of your display monitor in the space below:
SERIAL No. [ ]
The serial number is located on the rear cover of the set.

ENGLISH
DEUTSCH
FRANÇAIS
ITALIANO

CAUTION

The power cord provided with this monitor is designed for safety and must be used with a properly grounded outlet to avoid possible electrical shock.

Do not remove the monitor cabinet as this can expose you to very high voltages and other hazards.

WARNING

RADIO INTERFERENCE REGULATIONS STATEMENT FOR U.S.A.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

THIS PRODUCT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS WITH A SHIELDED CABLE.
USE IT TO REDUCE THE POSSIBILITY OF CAUSING INTERFERENCE TO RADIO, TELEVISION, AND OTHER ELECTRIC DEVICES.

NO USER SERVICEABLE PARTS INSIDE. DO NOT ATTEMPT TO MODIFY THIS EQUIPMENT. IF MODIFIED, YOUR AUTHORITY TO OPERATE THIS EQUIPMENT MIGHT BE VOIDED BY FCC.

ENGLISH

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1 INTRODUCTION

Versatile inputs

This monitor accepts almost all types of video inputs and can be used for wide range of applications.

- TV grade video signal input — 2 channels (S-VHS input available)
- Analog video signal input — 2 channels
- Audio signal — 3 channels

Auto-tracking function

Automatic tracking and synchronization over a wide range of horizontal (15~85 kHz) and vertical (40~120 Hz) scanning frequencies, which allows compatibility with video equipment, personal computers, and work stations.

Wireless remote controller

All user control functions of the monitor can be operated by a wireless remote controller. The monitor also provides an external remote connector for power on-off, source select, and others for system base applications.

Micro-processor control

The monitor provides a micro-processor which controls picture size and centering in accordance with input signals and memorizes the picture data.

World-wide Specification

The monitor accepts video signals of all major TV standard such as NTSC, PAL and SECAM.

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Apple Macintosh is a registered trademarks of Apple Computer, Inc.

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2 PRECAUTIONS ON USE

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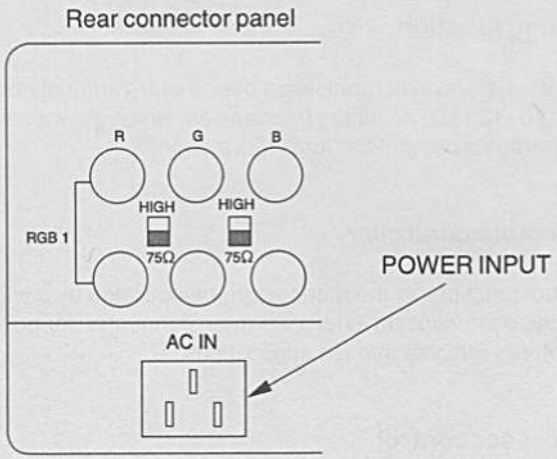
2.1 Power Source Voltage

Before turning on the power switch, check the AC power line voltage and frequency. The monitor's auto-sensing power supply can automatically detect 120V AC or 220-240V AC, 50 or 60Hz.



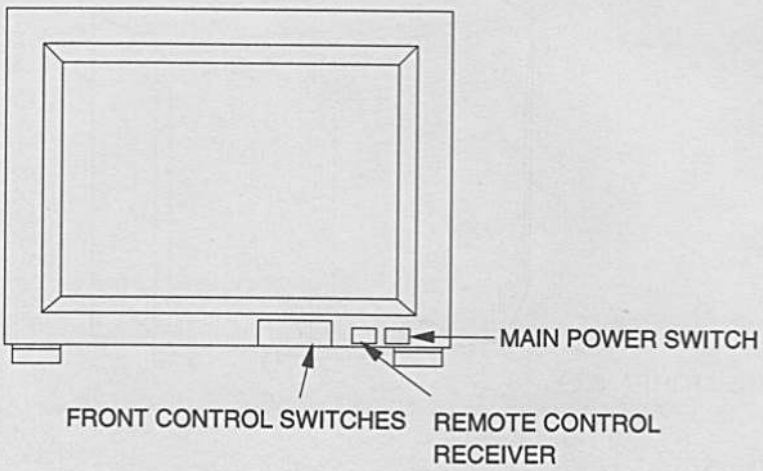
2.2 Power Supply Cord and Power Source Outlet

A power supply cord incorporating a GND pin must be used. To ensure safe operation, the power cord must be inserted only into a standard three-prong power outlet which is correctly grounded through normal electrical wiring.
One end of the power supply cord is connected into the power inlet on the back of the monitor. The other end is plugged into a properly grounded three-prong AC outlet.

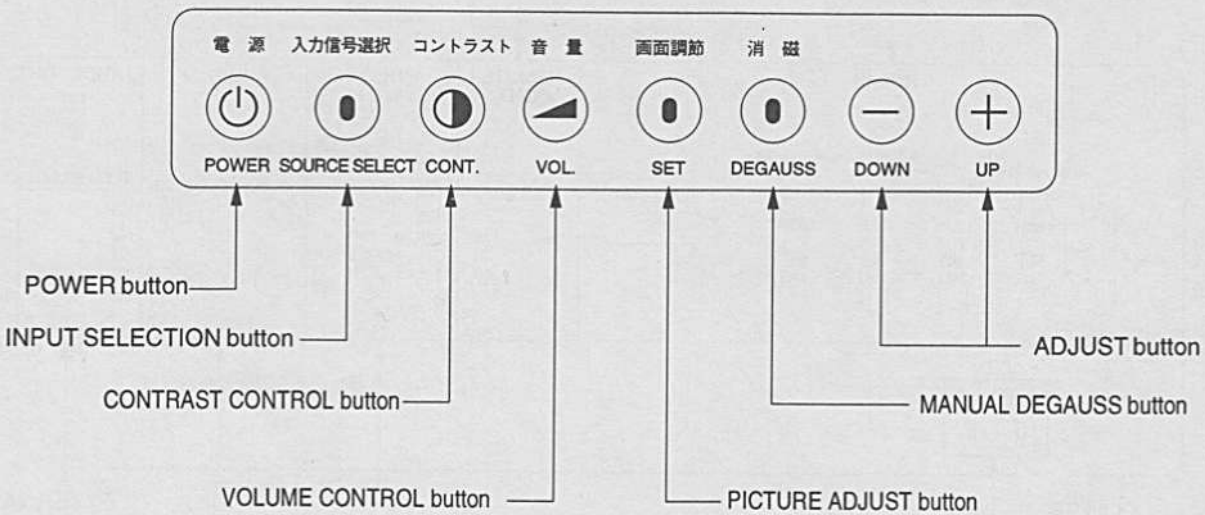
CAUTION: The Socket-Outlet Shall Be Location Near The Equipment And Shall Be Easily Accessible. During servicing, Disconnect The Plug From The Socket-Outlet.

3 NAMES OF PARTS

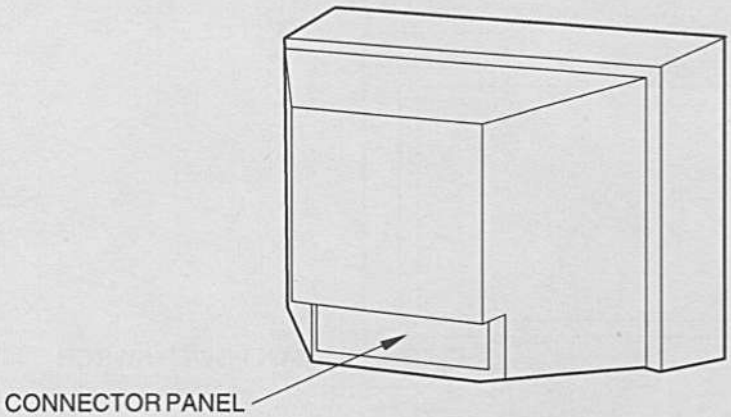
3.1 Front



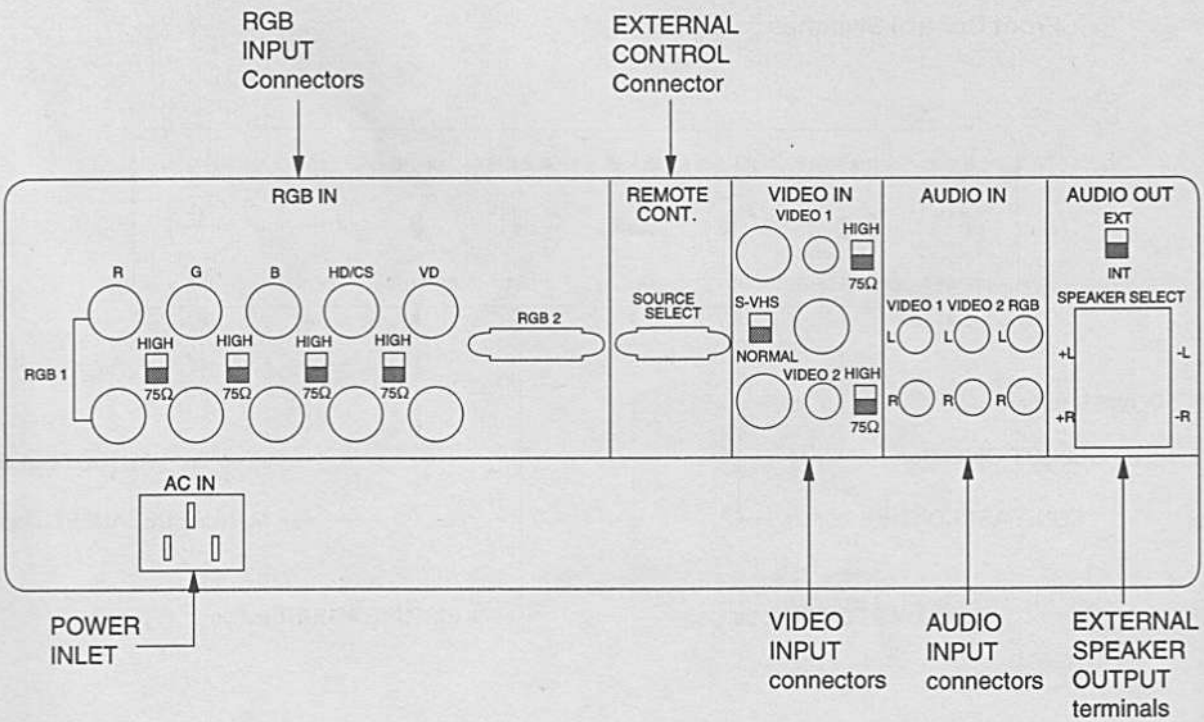
Front Control Switches



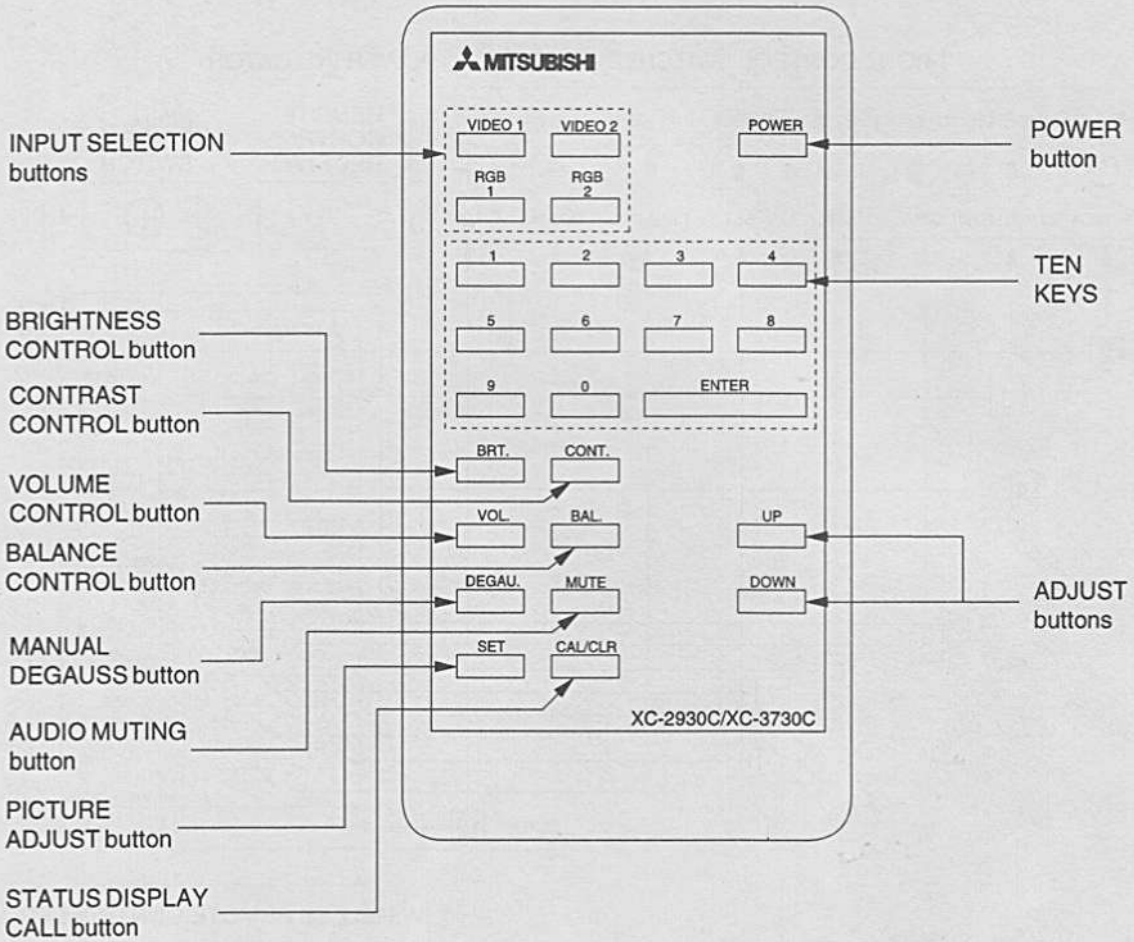
3.2 Rear



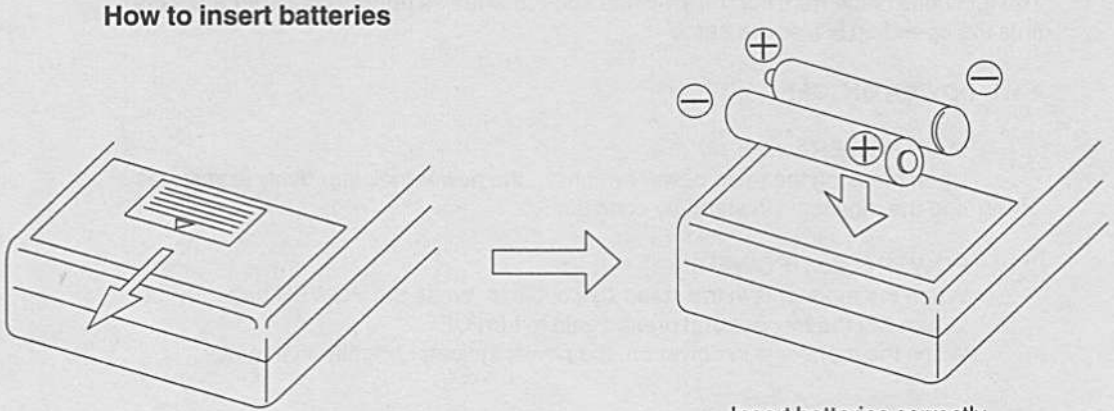
Connector panel



3.3 Wireless Remote Controller



How to insert batteries



Open a cover plate

Insert batteries correctly.
The batteries must be type UM-4 (1.5V) or equivalent.

4 FUNCTIONS

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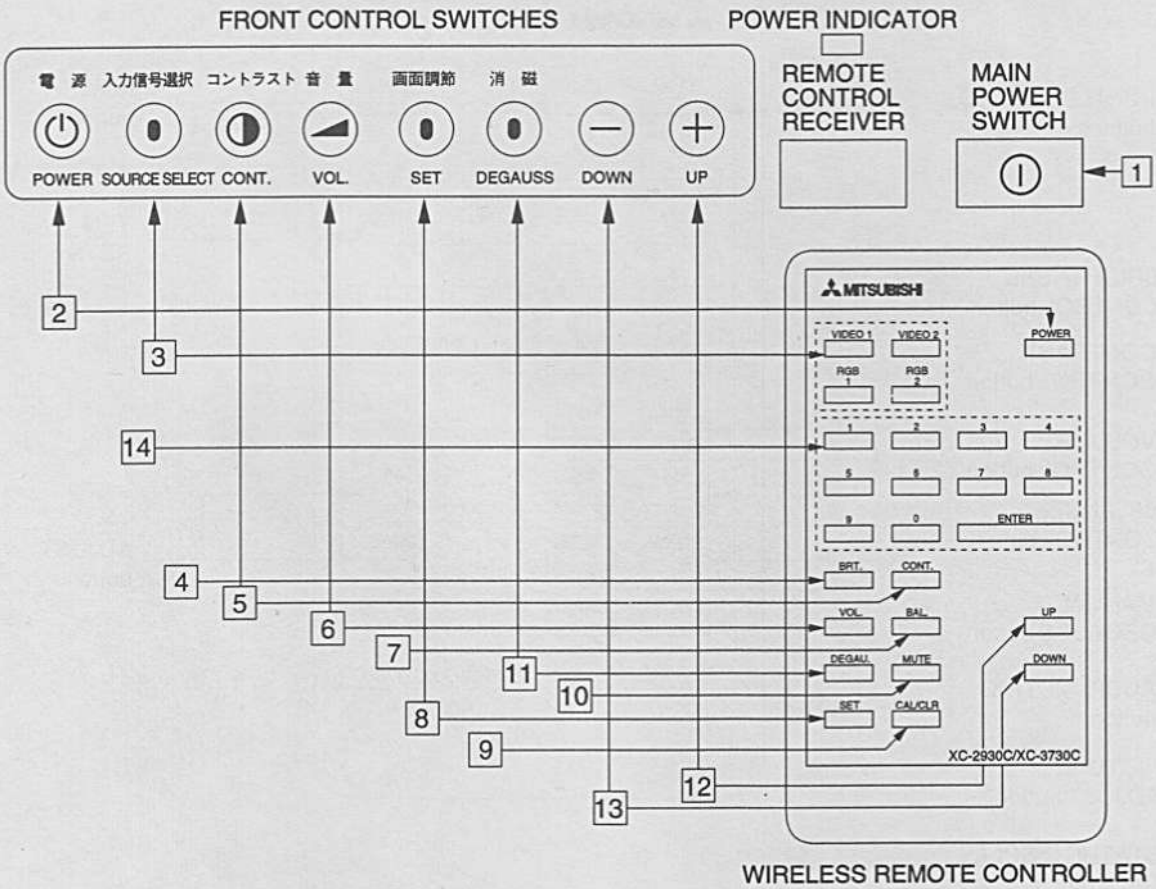
4.1 Front Control Switches and Wireless Remote Controller



The functions of the front control switches and the wireless remote controller are same, thus the operation is also the same.

4.1.1 POWER ON, OFF

[1] MAIN POWER switch
Upon pressing the main power switch [1], the power indicator dimly illuminates and the monitor is in stand-by condition.

[2] POWER button (POWER)
When the monitor is in the stand-by condition, press the POWER button [2] once to turn ON the monitor and press again to turn OFF.
When the monitor is in power on, the power indicator brightly illuminates.

CAUTION;
Rapid repetition of the power on/off switch, can cause damage to the monitor.
When not using the monitor for over a few hours, turn off the monitor by the main power switch.

4.1.2 INPUT SELECTION

[3] INPUT SELECTION button (SOURCE SELECT)
By operation of the front control panel, the input selection is stepped by pressing the SOURCE SELECT button [3] as follows:

When using the wireless remote controller, the input is selected directly by pressing the desired button.

When input selection made it is displayed on the screen for a few seconds.

4.1.3 SCREEN BRIGHTNESS CONTROL

[4] BRIGHTNESS CONTROL button (BRT.)
This function is for a control of black level of picture. After pressing the BRT. button [4], the UP DOWN buttons [12] [13] are used for the level control. During adjusting, the function name BRIGHT and the level figures (MIN, -31, -30, ~0~, 29, 30, MAX) are displayed on the screen.

[5] CONTRAST CONTROL button (CONT.)
After pressing the CONT. button [5], the UP DOWN buttons [12] [13] are used for the level control.
During adjusting, the function name CONTRAST and the level figures (MIN, 1, 2, ~, 61, 62, MAX) are displayed on the screen.

4.1.4 AUDIO CONTROL

[6] VOLUME CONTROL button (VOL.)
After pressing the VOL. button [6] , the UP DOWN buttons [12] [13] are used for the level control.
During adjusting, the function name VOLUME and the level figures (MIN, 1, 2, ~, 61, 62, MAX) are displayed on the screen.

[7] BALANCE CONTROL button (BAL.)
This function is for a balance control between left and right volume of the stereo amplifier.
After pressing the BAL. button [7] , the UP DOWN buttons [12] [13] are used for the balance control. (UP-Right, DOWN-Left)
During adjusting, the functions name BALANCE and the level figures (L32, L31, ~0~, R30, R31) are displayed on the screen.

4.1.5 PICTURE ADJUSTMENT

[8] PICTURE ADJUST button (SET)
The picture adjustment contains following functions.

(1) PICTURE PURITY adjustment (PURITY)
(2) MOIRE CLEAR adjustment (MOIRE)_____ associated with RGB 1,2 only
(3) VIDEO COLOR adjustment (COLOR)_____ associated with VIDEO 1,2 only
(4) VIDEO SHARPNESS adjustment (SHARPNESS)_ associated with VIDEO 1,2only
(5) VIDEO TINT adjustment (TINT)_____ associated with VIDEO 1,2 only
(6) PICTURE WIDTH adjustment (H-WIDTH)
(7) PICTURE HORIZONTAL POSITION adjustment (H-PHASE)
(8) PICTURE HEIGHT adjustment (V-HEIGHT)
(9) PICTURE VERTICAL POSITION adjustment (V-POSITION)
(10) PICTURE SIDE PINCUSHION DISTORTION adjustment (PCC-GAIN)
(11) PICTURE SIDE TRAPEZOID DISTORTION adjustment (PCC-PHASE)
(12) STATUS DISPLAY INHIBIT button (DISPLAY)
(13) ADDRESS NO. setting (ADDRESS)
(14) PICTURE WHITE COLOR setting (WHITE)
(15) PICTURE RED DRIVE OF WHITE COLOR adjustment (DRIVE. R) —— associated with USER MODE OF WHITE only.
(16) PICTURE GREEN DRIVE OF WHITE COLOR adjustment (DRIVE. G) _ associated withUSER MODE OF WHITE only.
(17) PICTURE BLUE DRIVE OF WHITE COLOR adjustment (DRIVE. B) —— associated with USER MODE OF WHITE only.

By operation of the front control switches, above functions are stepped to change by pressing the SET button [8] , and the functions which are not associated with the input selected are skipped over.
When using the wireless remote controller, the above functions are grouped into picture pages and displayed. Pages are turned by pressing the SET button [8] , then press the number of the function desired and press ENTER button [14] .

(1) PICTURE PURITY adjustment (PURITY)
Local magnetism may cause partial discoloration on the screen. This magnetism can be compensated by adjusting the cancel coil. The UP DOWN buttons [12] [13] are used for the adjusting. During adjusting, the function name PURITY and set figures (S32, S31, ~0~, N30, N31) are displayed on the screen.

(2) MOIRE CLEAR adjustment (MOIRE)
Moire is a phenomenon that interference stripe appear on the screen. The moire level of the picture for RGB 1 and RGB 2 can be decreased by pressing UP DOWN buttons [12] [13]. The over-adjustment might degrade picture quality.
During adjusting, the function name MOIRE and the set figures (MIN, 1, 2, ~, 61, 62, MAX) are displayed on the screen.

(3) VIDEO COLOR adjustment (COLOR)
The color gain of the picture for VIDEO 1 and VIDEO 2 can be adjusted by pressing the UP DOWN buttons [12] [13].
During adjusting, the function name COLOR and the set figures (MIN, -31, -30, ~0~, 29, 30, MAX) are displayed on the screen.

(4) VIDEO SHARPNESS adjustment (SHARPNESS)
The sharpness of the picture for VIDEO 1 and VIDEO 2 can be adjusted by pressing the UP DOWN buttons [12] [13].
During adjusting, the function name SHARPNESS and the set figures (MIN, -31, -30, ~0~, 29, 30, MAX) are displayed on the screen.

(5) VIDEO TINT adjustment (TINT)
The color tint of the picture for VIDEO 1 and VIDEO 2 can be adjusted by pressing the UP DOWN buttons [12] [13].
During adjusting, the function name TINT and the set figures (MIN, -31, -30, ~0~, 29, 30, MAX) are displayed on the screen.

(6) PICTURE WIDTH adjustment (H-WIDTH)
The width of the picture for each input can be adjusted by pressing the UP DOWN buttons [12] [13].
During adjusting, the function name H-WIDTH and the set figures (MIN, 1, 2, ~, 61, 62, MAX) are displayed on the screen.

(7) PICTURE HORIZONTAL POSITION adjustment (H-PHASE)
The horizontal position of the picture for each input can be adjusted by pressing the UP DOWN buttons [12] [13].
During adjusting, the function name H-PHASE and the set figures (MIN, 1, 2, ~, 61, 62, MAX) are displayed on the screen.

(8) PICTURE HEIGHT adjustment (V-HEIGHT)
The height of the picture for each input can be adjusted by pressing the UP DOWN buttons [12] [13].
During adjusting, the function name V-HEIGHT and the set figures (MIN, 1, 2, ~, 61, 62, MAX) are displayed on the screen.

(9) PICTURE VERTICAL POSITION adjustment (V-POSITION)
The vertical position of the picture for each input can be adjusted by pressing the UP DOWN buttons [12] [13].
During adjusting, the function name V-POSITION and the set figures (MIN, 1, 2, ~, 61, 62, MAX) are displayed on the screen.

(10) PICTURE PINCUSHION DISTORTION adjustment (PCC-GAIN)
The side pincushion distortion of the picture for each input can be adjusted by pressing the UP DOWN buttons 12 13 .
During adjusting, the function name PCC-GAIN and the set figures (MIN, -31, -30, ~0~, 29, 30, MAX) are displayed on the screen.

(11) PICTURE TRAPEZOID DISTORTION adjustment (PCC-PHASE)
The trapezoid distortion of the picture for each input can be adjusted by pressing the UP DOWN buttons 12 13 .
During adjusting, the function name PCC-PHASE and the set figures (MIN, -31, -30, ~0~, 29, 30, MAX) are displayed on the screen.

(12) STATUS DISPLAY INHIBIT button (DISPLAY)
On power up, and when selecting the input, the status is shown automatically for a few seconds.
This function can be inhibited by UP DOWN buttons 12 13 . (UP: ON, DOWN: OFF).
When ON, the status is shown, and when off, status is not shown.
When selecting ON/OFF, selection is shown on the screen.

(13) ADDRESS NO. setting (ADDRESS)
When more than one monitor is used at the same location, using the wireless remote controller may cause confusion in operating monitors. To avoid the above confusion, each monitor can be given an address number or I.D number for individual operation.
The address number can be set by pressing the UP DOWN buttons 12 13 , the figures displayed can be increased or decreased from 01 to 99 by the buttons (UP, DOWN) 12 13 .
After setting, when using the wireless remote controller, the address no. must be selected by the ten-keys 14 and ENTER button 14 to call the monitor, then normal operation by the wireless remote controller is available.
The address number can be cancelled by setting to number 00.

In case of 05 for address no.
Press 05 button
Press ENTER button ———— Figure 05 flashes on a screen.

Normal operation

(14) PICTURE WHITE COLOR setting (WHITE)
The white color of the picture of RGB or VIDEO can be selected by pressing the UP DOWN buttons 12 13 as follows.

(15) RED GAIN OF WHITE COLOR adjustment (DRIVE. R)
When the user mode of white color setting is selected, the red gain of the white color can be adjusted by pressing the UP DOWN buttons 12 13 .
During adjusting, the function name R-GAIN and the set figures (MIN, -31, -30, ~0~, 29, 30, MAX) are displayed on the screen.

(16) GREEN GAIN OF WHITE COLOR adjustment (DRIVE. G)
When the user mode of white color setting is selected, the green gain of the white color can be adjusted by pressing the UP DOWN buttons 12 13 .
During adjusting, the function name G-GAIN and the set figures (MIN, -31, -30, ~0~, 29, 30, MAX) are displayed on the screen.

(17) BLUE GAIN OF WHITE COLOR adjustment (DRIVE. B)
When the user mode of white color setting is selected, the blue gain of the white color can be adjusted by pressing the UP DOWN buttons 12 13 .
During adjusting, the function name B-GAIN and the set figures (MIN, -31, -30, ~0~, 29, 30, MAX) are displayed on the screen.

4.1.6 DISPLAY STATUS

9 DISPLAY STATUS CALL button (CAL/CLR)
The input name, and address no. which have been selected are displayed on the screen by pressing the CALL or CAL/CLR button 9 .
Pressing again clears the display.

Display status examples;

VIDEO 1 ..... VIDEO 1 selected
RGB 1 ..... RGB 1 selected
05 RGB 2 ..... Address no. 05, RGB 2 selected

10 MUTE
Sound can be muted by pressing the MUTE button 10 , and pressed again to cancel.
Also,mute can be automatically cancelled by pressing the VOL. button 6 .

4.1.7 MANUAL DEGAUSS

11 MANUAL DEGAUSS button (DEGAUSS)
The monitor is equipped with an auto-degauss function which operates at power on.
However, if manual degaussing is required, press the DEGAUSS button 11 .

4.2 Adjustment for Preset Mode and Picture Size of Video Input

This monitor has a Factory Preset mode and a User mode for picture size on RGB1 and RGB2. The mode name PRESET MODE or USER MODE is displayed on the screen.

The Preset mode has been adjusted to be compatible with the timings of personal computers and work stations (Table 1) by the factory. The VIDEO various input also has been adjusted for normal size. Thus, adjustment of the picture size is not required.

However, a user can adjust the picture size temporarily as desired by the same manner described in paragraph 4.1.5 page 11.

NOTE: In case of the timings shown on Table 1 and VIDEO, the memory of the above picture size adjusted would be erased at the power off.

In case of Preset mode, if a re-adjustment of the picture size which has been set by the factory is needed. The user can re-adjust the picture size by the same manner as described in paragraph 4.1.5 page 11, then pressing both VOLUME and DEGAUSS buttons at a same time, at this time MEMORIZED is displayed on the screen. The confirmed operation is effective only on the front control switches.
In case of User mode, a re-adjusting picture size is memorized without the above operation.

NOTE: The memory of the picture size adjusted by the factory is erased after the above re-adjustment by a user.

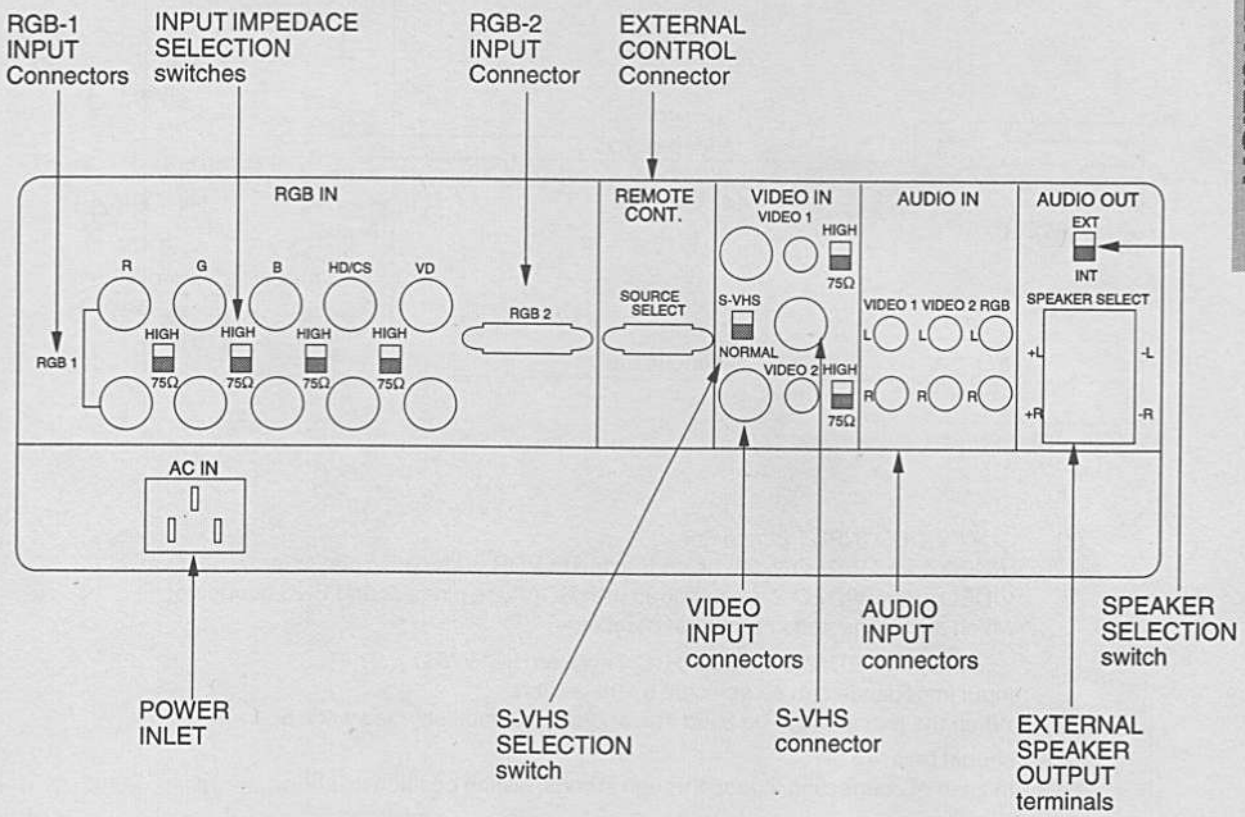
This monitor has 10 memory buffers (Preset mode memory buffer) for factory presets and 5 memory buffers(User mode memory buffer) for user setting. When the sync timing differs from Table 1, at least 3kHz horizontal scan frequency, or 10Hz vertical scan frequency, or the sync signal polarities, the monitor stores the sync timing in one of 5 memory buffers for user setting. When 5 memory buffers for user setting are all written, the next input sync timing writes over the first memory buffer.

Table 1. Memory Buffer Factory Presets

Memory Buffer	Preset Mode	Fh (kHz)	Fv (Hz)	Polarity	
				H	V
1	IBM VGA480	31.47	60.0	NEG	NEG
2	IBM VGA400	31.47	70.0	NEG	POS
3	Apple 13" MODE	35.00	66.7	NEG	NEG
4	IBM PS/V-SVGA	48.08	72.2	POS	POS
5	IBM XGA	56.47	70.0	NEG	NEG
6	IBM XGA-II	61.09	75.8	POS	POS
7	Apple 21" MODE	68.68	75.1	POS	POS
8	SUN	71.71	76.0	NEG	POS
9	HP	78.13	72.0	POS	POS
10	SGI	81.97	76.2	POS	POS

Note) in case of Sync-on-Green, polarities are POS (H) and POS (V).
in case of composite sync (NEG), polarities are NEG (H) and POS (V).
in case of composite sync (POS), polarities are POS (H) and POS (V).

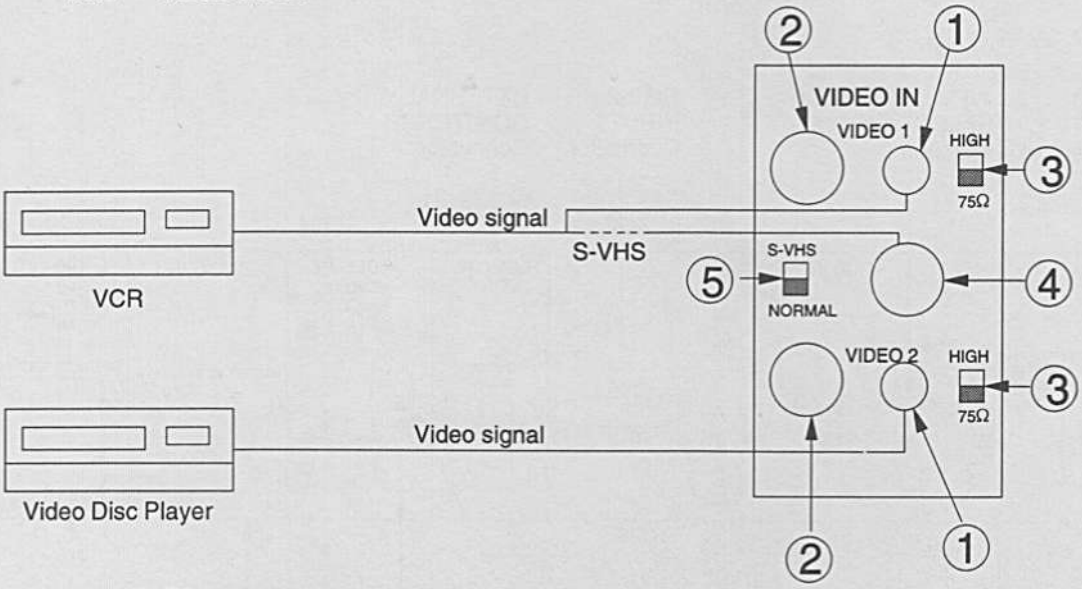
4.3 Connector Panel (Rear)



4.3.1 POWER INLET SECTION

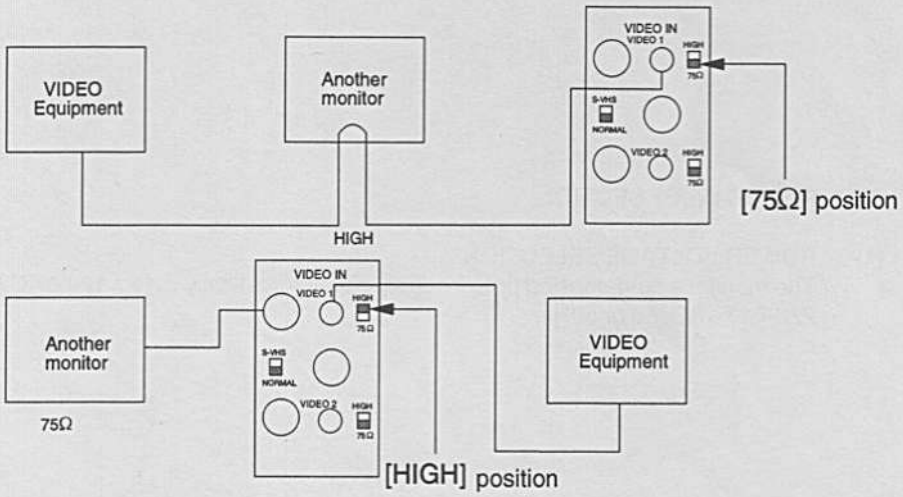
(1) POWER VOLTAGE SELECTION
The monitor's auto-sensing power supply can automatically detect 120V AC or 220-240V AC, 50 or 60Hz.

4.3.2 VIDEO INPUT



(1) ① ② VIDEO INPUT connector
VIDEO 1 and VIDEO 2 can be connected to VCR, Video disc player, etc.
VIDEO 1 and VIDEO 2 are provided with RCA-type pin-jack and BNC connector which are connected internally in parallel.

(2) ③ INPUT IMPEDANCE SELECTION switch (HIGH/75 Ω)
Input impedance can be selected by the switch.
When the monitor is to be used at stand-alone condition, the switch position should be at 75 Ω.
In case of connection in loop through strings, switch position as shown.



(3) ④ ⑤Input connector and switch for S-VHS format signal
VIDEO 1 is also provided with an S-VHS connector for the connection with a VCR which can output S-VHS format.
When the S-VHS connector is used, set the switch to S-VHS position.

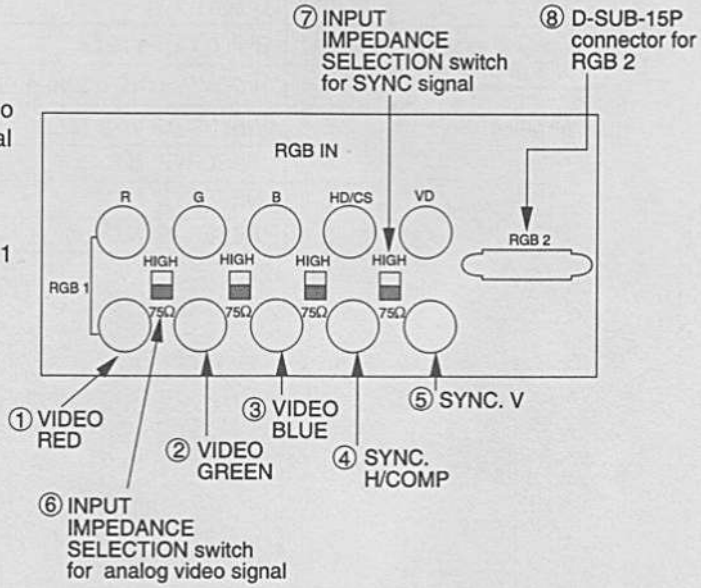
S-VHS connector

Pin No.	Signal	
1	GND-(Y)	
2	GND-(C)	
3	Y-signal	1.0 Vp-p 75Ω , Sync.-Negative
4	C-signal	Burst level 0.266 Vp-p, 75Ω

4.3.3 RGB INPUT

RGB input is for a analog video signal generated from personal computer, RGB type video equipment, etc.

Analog input consists of RGB 1 and RGB 2.



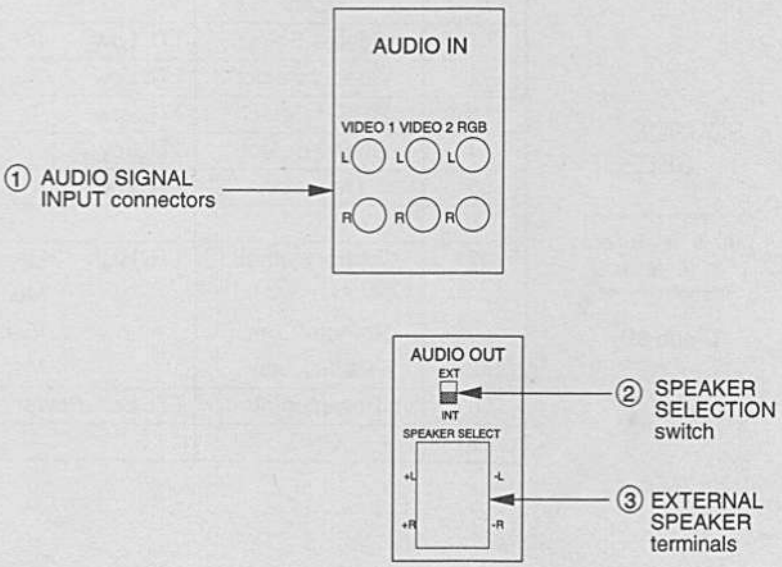
(1) ①~⑦RGB 1 input connectors
RGB 1 is for multipurpose use.
The video signals (Red, Green, Blue) are connected to the connectors① ~③.
The connection of SYNC signal is determined by the method of SYNC of a personal computer or video controller as follows.

SYNC Signal		Connection and Switch position	
Method	Signal level	Connector④,⑤	Impedance Selection S.W ⑦
Composite SYNC (COMP)	0.3V	only HD/CS④	75Ω
	TTL	only HD/CS④	HIGH
Separate SYNC	0.3V	Horizontal HD/CS ④ Vertical-VD ⑤	75Ω
	TTL	Horizontal-HD/CS ④ Vertical-VD ⑤	HIGH
SYNC on Green	0.3V	Unnecessary	Unnecessary

(2) ⑧ RGB 2 input connector
RGB 2 is for a personal computer use.
Two (2) types of SYNC signals can be fed into RGB 2. In case of 0.3V - SYNC level, use pins 4 and 5. In case of TTL level use pins 12 and 13.

Pin No.	Signal	Pin No.	Signal
1	Red 0.7 Vp-p 75Ω	9	GND-(Red)
2	Green 0.7 Vp-p 75Ω	10	GND-(Green)
3	Blue 0.7 Vp-p 75Ω	11	GND-(Blue)
4	H/COMP-SYNC 0.3 Vp-p 75Ω	12	H/COMP-SYNC TTL
5	V-SYNC 0.3 Vp-p 75Ω	13	V-SYNC TTL
6	"RESERVE" N.C.	14	"RESERVE" N.C.
7	"RESERVE" N.C.	15	"RESERVE" N.C.
8	"RESERVE" N.C.		

4.3.4 AUDIO INPUT, OUTPUT



(1) ① AUDIO SIGNAL INPUT connectors
Each audio signal of VIDEO 1, VIDEO 2, RGB 1 and RGB 2 can be input to the connectors ①, and the audio signals are changed over to synchronize with the screen by the input selection.
When the Audio signal is monaural, R-side signal is also distributed to L-side if the signal is provided to R-side.
But if the signal is provided to L-side, the signal is not distributed to R-side.

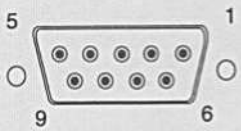
(2) ② ③EXTERNAL SPEAKERS connection
When external speakers are provided to reproduce the desired dynamic sounds, the speaker signals can be output from the internal amplifier.
In this case, set the speaker selection switch to EXT position.

4.3.5 EXTERNAL CONTROL CONNECTOR (SOURCE SELECT)

The monitor can be controlled by external signals (TTL) without a operation on wireless remote controller and/or front control switches.
The following functions can be controlled.

- Power ON/OFF
- Input selection
- Manual degauss

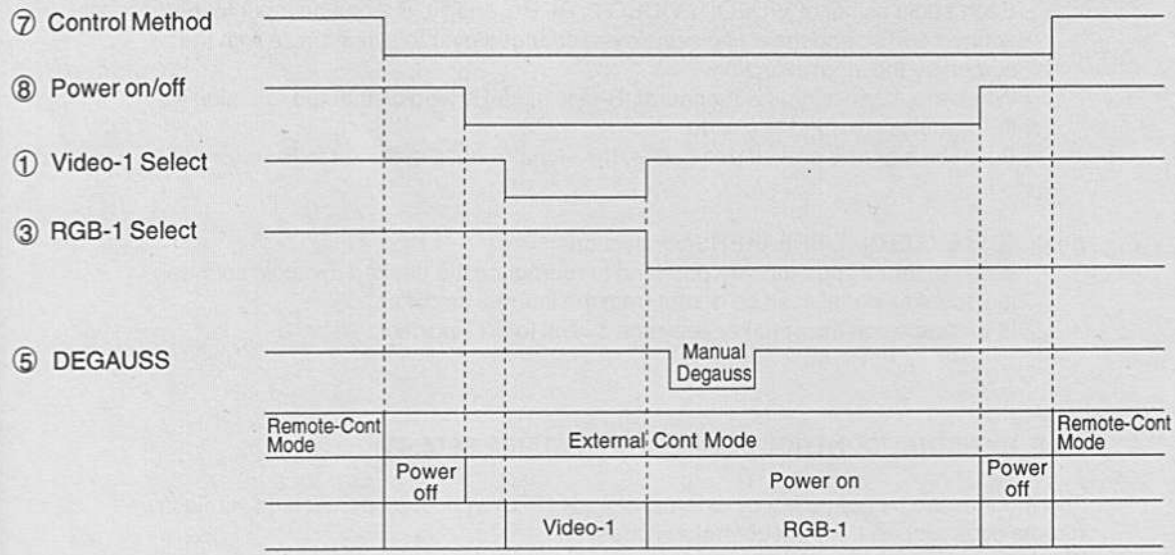
SOURCE SELECT



D-sub 9P

Pin No.	Signal	
1	Video-1 Select	TTL Low
2	Video-2 Select	TTL Low
3	RGB-1 Select	TTL Low
4	RGB-2 Select	TTL Low
5	Degauss	TTL Low
6		
7	Control Method	TTL High- Remote-Cont. Mode
	Remote-Cont.	Low- External-Cont.
	External-Cont.	Mode
8	Power on/off	TTL Low-Power on
9	GND	

Pin No.



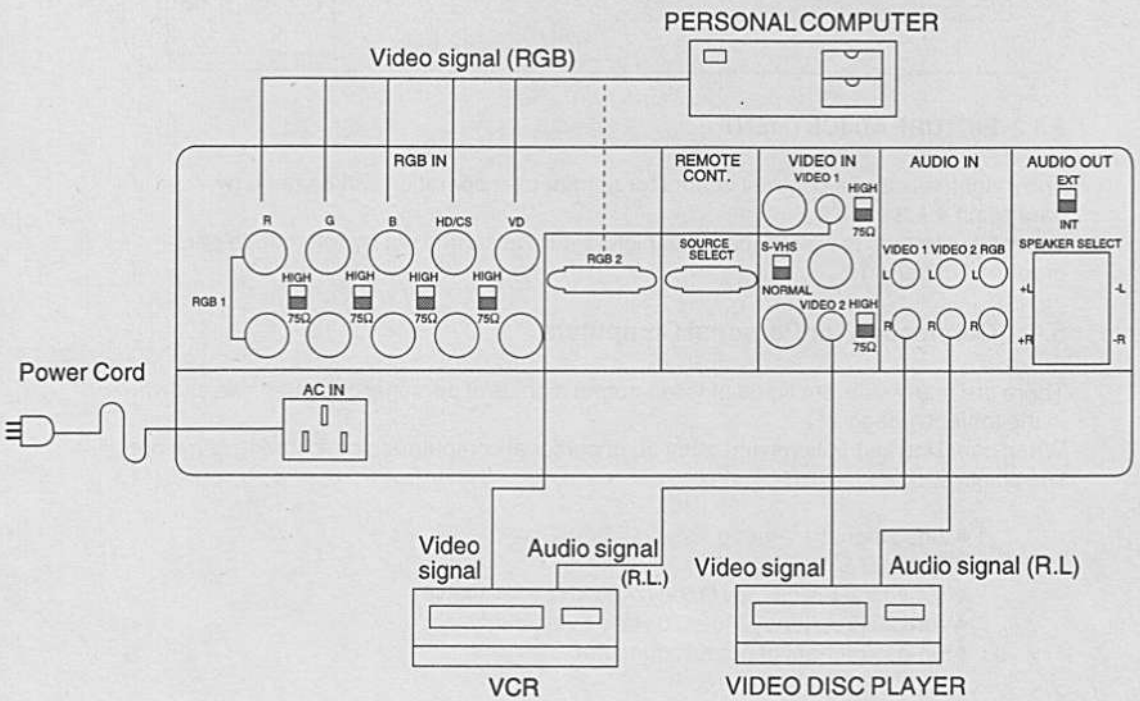
5 CONNECTION GUIDANCE

5.1 Input

This monitor is capable of being connected with all types of inputs as shown in the following table. Before connecting with a personal computer, video equipment, etc., make sure of the types of video and sync signals.

Input	Video Signal	Synchronizing Signal	Connected Unit
VIDEO 1 VIDEO 2	Composite Video Synchronizing Signal NTSC, M-NTSC, PAL, SECAM		VCR Video Disc Video Tuner
RGB 1 RGB 2	0~0.7 Vp-p Analog Video Signal (R, G, B)	H, V-Sync, Separate (TTL)	IBM PS/2 (VGA) Apple Macintosh
		H, V-Sync, Composite (TTL)	
		H, V-Sync, Composite (0.3V)	RGB type Camera
		Sync on Green (0.3V)	Apple Macintosh

5.2 Connection Example for Various Input



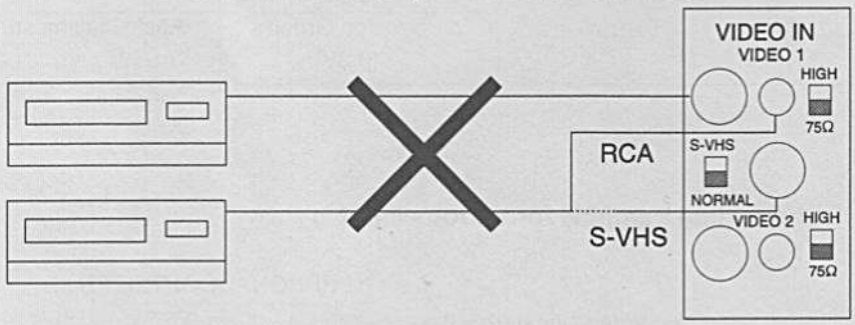
5.3 Connection for Video Equipment

5.3.1 CONNECTION

A VCR, a video disc player, and other video equipment can be connected with VIDEO 1 and/or VIDEO 2.
For each input, two (2) types of input connectors are provided; a BNC connector and an RCA pin-jack, either one can be used.

Video 1 has also an S-VHS connector for the connection with VCR which can output with S-VHS format. When the S-VHS connector is used, set the selection switch to S-VHS position.

CAUTION; Do not make a connection as follows, the video equipment may malfunction or cause a damage.
When VIDEO 1 is used, do not make a connection both BNC and/or RCA pin-jack and S-VHS connector.



5.3.2 PICTURE ADJUSTMENT

The brightness and a contrast control for normal user operation can be done by paragraph 4.1.3 page 9.
Other adjustments to reproduce a fine picture can be carried out by referring to paragraph 4.1.5 page 10.

5.4 Connection for Personal Computers

There are many different types of video output signals of personal computers as shown in the table 5.1 page 21.
When checking instructions and other lit, of personal computers, the following items are key points.

- Video signal -- Analog
- Types of SYNC signal
- Horizontal Frequency (15 kHz~85 kHz is available)
- Vertical Frequency (40~120 Hz is available)
- Pin-assignment of output connector

5.4.1 CONNECTION FOR RGB VIDEO SIGNAL

When connecting with timings of Table 1(page 14), the picture size and side distortion are automatically adjusted at the factory presets.
In some cases, user must adjust picture size and side distortion.

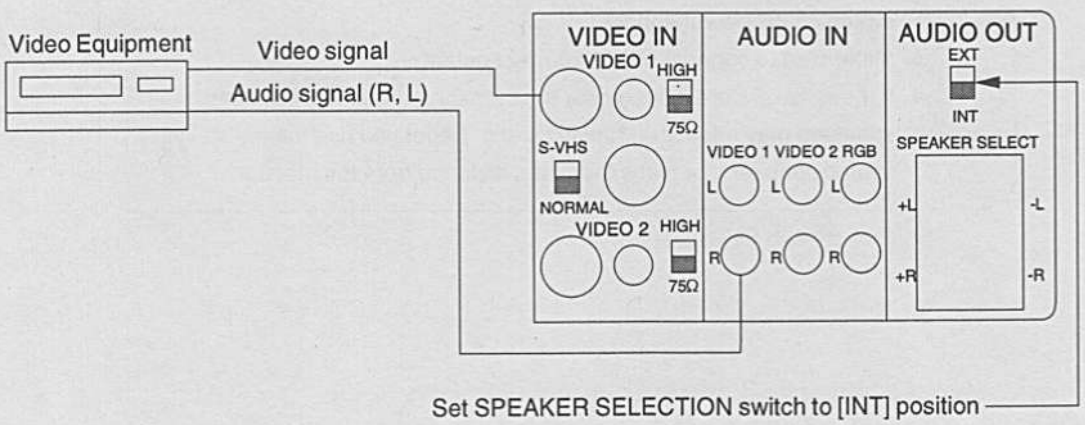
5.4.2 PICTURE ADJUSTMENT

The brightness and a contrast control of normal users operation can be done by paragraph 4.1.3 page 9.
Other adjustments to set the picture size can be carried out by paragraph 4.1.5 page 10.

5.5 Connection of Audio System

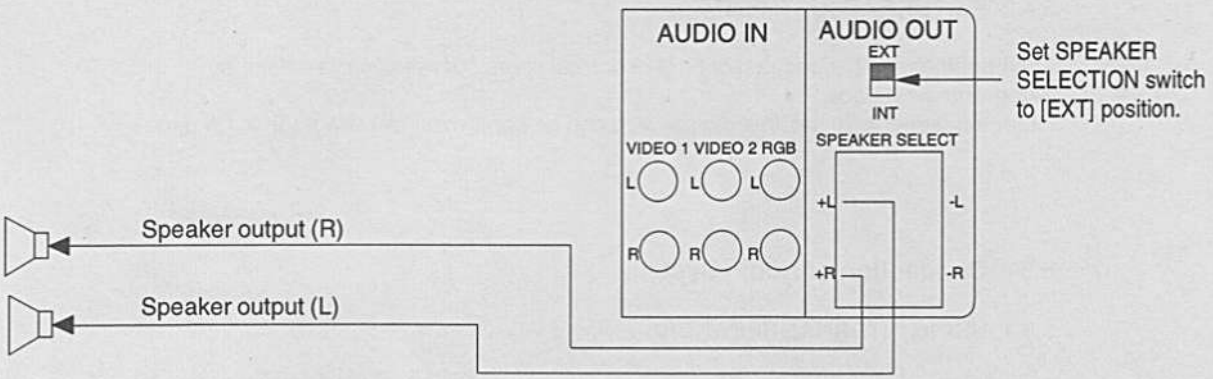
5.5.1 USING INTERNAL SPEAKERS

The amplifier and speakers are provided in the monitor. Usually both of them are used as showing below.
When the Audio-signal from video-equipment is monaural, R-side & L-side speakers sound if the signal is provided to R-input.
If the signal is provided to L-input, only L-side speaker sounds.



5.5.2 CONNECTION WITH EXTERNAL SPEAKERS

If the internal speaker can not output enough loudness, external speakers can be driven by the internal amplifier.

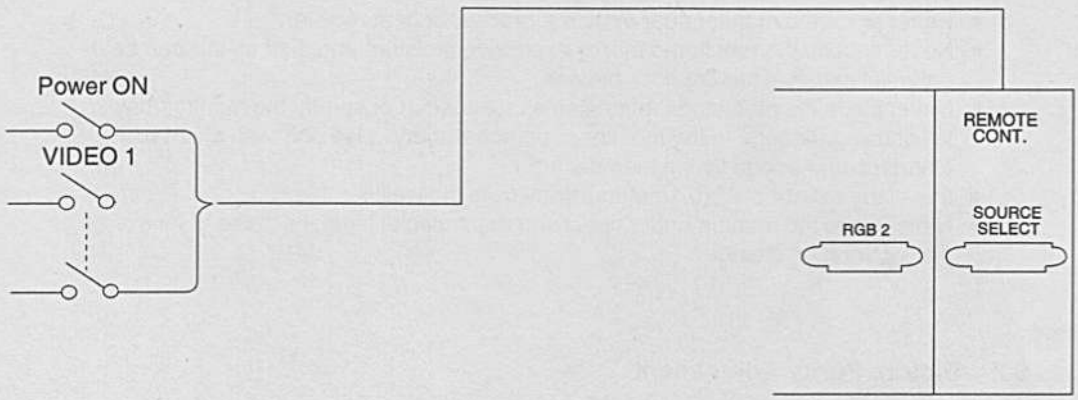


CAUTION;

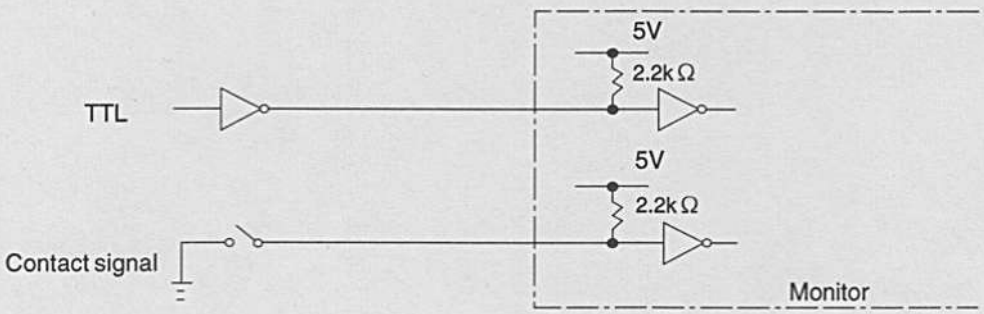
- The external speakers to be connected should have an impedance of over 6 Ω , and capable of taking over 5W output power.
- Before making the connection, set the volume level to minimum and switch off the power supply.
- Make sure to connect with the correct polarity.
- If the speakers are placed near the monitor, magnetism from the speakers may affect the display colors. Either you use magnetically sealed speakers, or place them at a distance from the monitor.

5.6 Connection for External Control (SOURCE SELECT)

The monitor can be controlled by external signals without a operation on wireless remote controller and/or a front panel.



The signal level should be TTL or contact signal.



6 PRECAUTIONS ON INSTALLATION

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6.1 Location Hints

- The monitor should be placed away from the device or a facility which generates magnetism, e.g. transformer, motor, large current power line and steel pillar, because the magnetism causes partial coloration phenomena.
- Never cover the slots or openings with cloth or other fabric.
- Never place the monitor in a built-in enclosure, unless proper ventilation is provided.
- Never place the monitor near or over a radiator or heat register.
- Never expose the monitor to rain or excessive moisture and dust as this can be a potential cause of fire or shock hazard.
- Never place the monitor on an unstable monitor cart or stand: the monitor may fall causing damage to the monitor or personal injury. Use only with a cart or stand recommended by the manufacturer.
- Install the set about 4" (0.1meters) away from the wall.
- Never place the monitor under direct sun or ultraviolet lamp, because of face plate coloration change.

6.2 Picture Purity Adjustment

As this monitor uses a large-type cathode ray tube, display colors will be affected when the monitor is subjected to magnetism (partial coloration phenomena).
In order to achieve the best color condition, carry out adjustment in accordance with paragraph 4.1.5 page 10.

NOTE; Adjustment against the terrestrial magnetism depends on the location of the monitor and the direction of the screen, thus, when the monitor is relocated, re-adjustment will be necessary.

7 CARE AND MAINTENANCE

7.1 General

Provided the color display monitor is connected to the proper power source and is handled gently, it should give you a long period of trouble-free productivity. If there is an occasion when you suspect a malfunction with the unit, unplug the set and have it checked by your qualified service technician for conditions such as:

- The set has been dropped or the cabinet has been damaged.
- The set has been exposed to rain or water.

If you are unable to restore normal operation by following the procedures in this guide, do not attempt any further adjustments as improper adjustment of other controls will result in damage. Unplug the set and call your dealer. If the set fails, or exhibits a distinct change in performance, then this indicates a need for service. Unplug the set and have it checked by a professional service technician.

7.2 Operation

- Operate the set only from the power source indicated on the back of the cabinet.
- To use a power source that is not marked on the back of the monitor will shorten the life of the monitor and cause damage in addition to improper operation.
- To ensure safe operation, the power plug must be inserted only into a standard three-prong power outlet which is correctly grounded through normal electrical wiring. Extension cords used with the equipment must be three-wire and be correctly wired to provide connection to ground. Wrongly wired extension cords are a major cause of fatalities. The fact that the equipment operates satisfactorily does not imply that the power point is grounded and that the installation is completely safe. For your safety, if in any doubt about the effective grounding of the power point, consult a qualified electrician.
- Do not overload wall outlets and extension cords as this can result in fire or shock.
- Adjust only those controls that are described in this guide. Improper adjustment of other control may result in damage and could require the services of a technician to restore proper operation.
- Do not allow anything to set on the power cord. Do not locate this monitor where the cord will be abused by persons walking on it.
- When not using the set for extended periods of time, such as a weekend or vacation, unplug the set from the wall outlet.
- If the same characters or graphics are shown for a long time with the Brightness and Contrast controls set to maximum positions, part of the screen may become damaged. Use these controls with care.
- Do not remove the back cover of the set as this can expose you to very high voltages and other hazards.
- Do not drop or push objects into the cabinet openings. Some internal parts carry hazardous voltages and contact can result in electrical shock or fire.
- Never operate the set near water.
- Never spill liquid of any kind on the monitor. If liquid has accidentally spilled into it, unplug the set and have it checked by a service technician.

7.3 Cleaning

- Always unplug the monitor before cleaning.
- Wipe the screen and cabinet front and sides with a soft cloth.
- If the screen requires more than dusting, apply a household window cleaner to a soft cloth to clean the monitor screen.

CAUTION;

Do not use benzene, thinner or any volatile substances to clean the unit as the finish may be permanently marked. Never leave the unit in contact with rubber or vinyl for an extended period.

8 SPECIFICATIONS

8.1 Rating and Specification

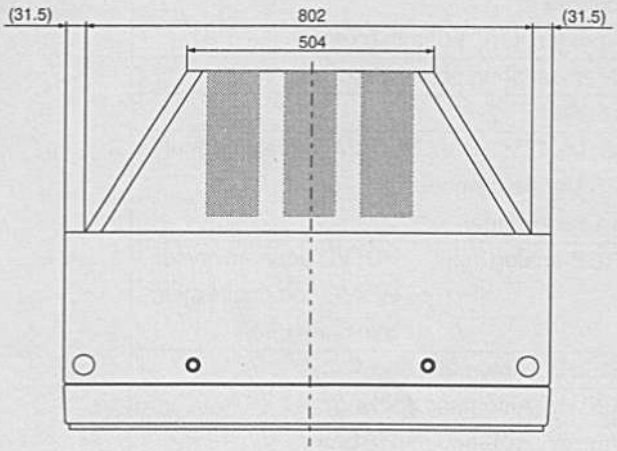
Model		XC-3730C
CRT	Size	89 cm / 37 inch (35 inch viewable)
	Deflection angle	110 degree
	Strip trio pitch	0.85 mm (center), 1.05mm (corner)
	Phosphor	B22 Medium-short persistence
	Face glass	Dark tinted
Input Signal	Video signal	NTSC, M-NTSC, PAL, SECAM standard signal S-VHS standard signal RGB analog signal
	Sync. signal	For RGB analog input HD, VD separate sync. HD/VD composite sync. Sync. on green
Scanning Frequency	Horizontal	15~85 kHz (Automatic tracking)
	Vertical	40~120 Hz (Automatic tracking)
Display Size	Horizontal	715 mm (Video)~660 mm (RGB)
	Vertical	540 mm (Video)~495 mm (RGB)
Power Source		120V AC or 220~240V AC 50/60 Hz
Power Consumption		380W
Cabinet Dimensions		(W) 865 x (H) 740 x (D) 576 mm
Weight		98 kg (217 lbs)
Ambient Conditions		Temperature 0~40°C, Humidity 10~90% RH

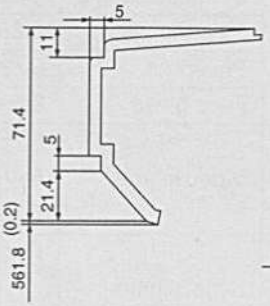
CAUTION;
The horizontal frequency of this monitor scans between 15~85kHz (RGB - 1, 2 Input signals).
However, at 15kHz, please check the signal output from the PC as it might not satisfy the factory preset standard screen width.

9 CABINET DIMENSIONS

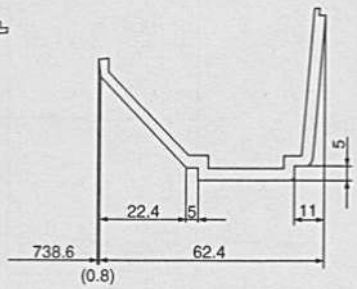
ENGLISH

XC-3730C





SECTION AA



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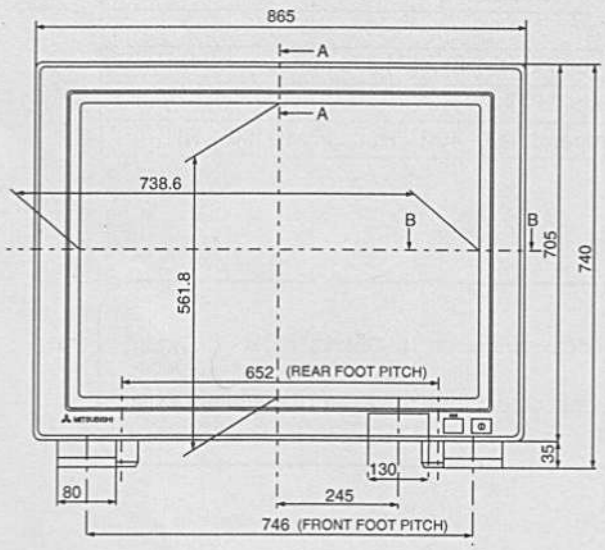

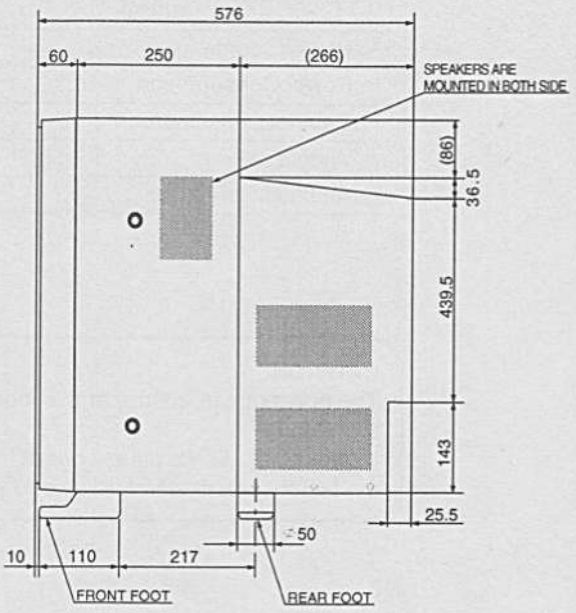

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