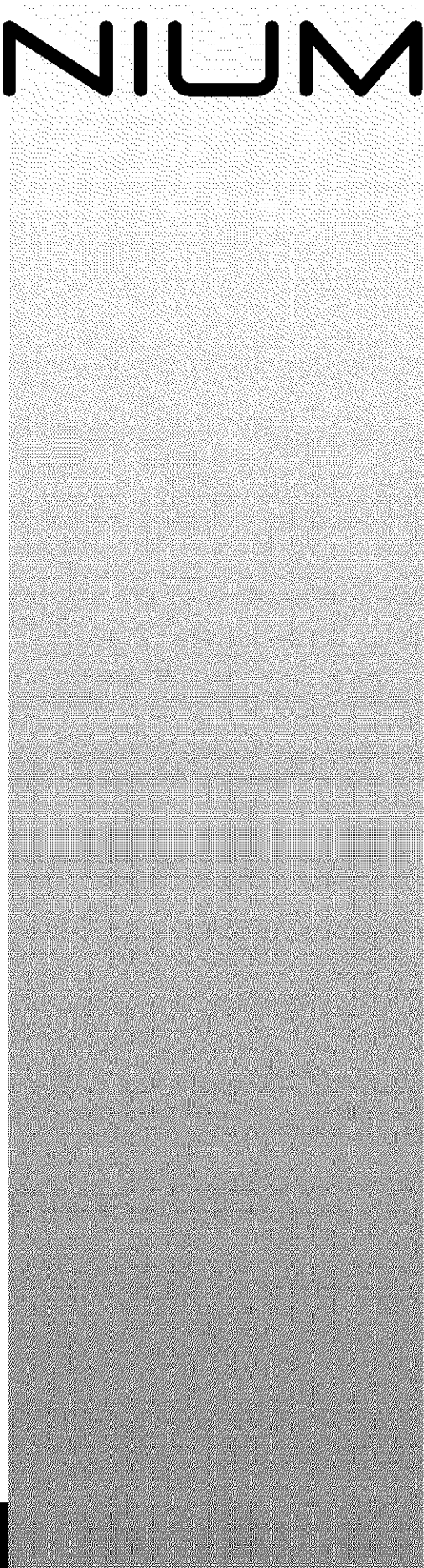




# **RCA SCENIUM**



**PHD50400 Plasma Monitor User's Guide**

# Safety Information

<b>WARNING</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	<b>TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</b>
 This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.	 This symbol indicates important instructions accompanying the product.

## Precautions

Please read this manual carefully before using your Monitor and keep the manual handy for future reference.

## WARNING

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. ALSO DO NOT USE THIS UNIT'S PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLETS, UNLESS ALL PRONGS CAN BE FULLY INSERTED. REFRAIN FROM OPENING THE CABINET AS THERE ARE HIGH-VOLTAGE COMPONENTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

## Industry Canada Compliance Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

## Declaration of Conformity

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Product: Cinema Screen Display

Equipment Classification: Class B Computer Peripheral

Model: PHD50400

We hereby declare that the equipment specified above conforms to the technical standards as specified in the FCC rules.

Thomson multimedia Inc.

10330 N. Meridian St.

Indianapolis, IN 46290

Phone: 1-800-433-8974

**Cable TV Installer:** This reminder is provided to call your attention to Article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

## FCC Information

- FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.
- This equipment has been type tested and found to comply with the limits for a Class B Digital Device in accordance with the specifications in Part 15 of the FCC rules. These rules are designed to provide reasonable protection against radio and television interference in a residential installation. This equipment generates and can radiate radio frequency and, if not installed and used in 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 interference to the radio or television reception (which you can determine by turning the equipment off and on), try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna (that is, the antenna for the radio or television that is "receiving" the interference).
- Change the position of the monitor with respect to the radio or television equipment that is receiving the interference.
- Move the monitor away from the equipment receiving the interference.
- Plug the monitor into a different wall outlet so the receiver and the equipment are on different branch circuits.

If these measures do not eliminate interference, please consult your dealer or an experienced radio/television technician for additional suggestions. Also, the Federal Communications Commission has prepared a helpful booklet, "How to Identify and Resolve Radio/TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington D.C., 20402. Please specify stock number 004-000-00345-4 when ordering copies.

### Warnings and Safety Precautions

The monitor is designed and manufactured to provide long, trouble-free service. No maintenance other than cleaning is required. Use a soft dry cloth to clean the panel. Never use solvents such as alcohol or thinner to clean the panel surface.

The display panel consists of fine picture elements (cells). Although the display panels are produced with more than 99.99 percent active cells, there may be some cells that do not produce light or remain lit.

For operating safety and to avoid damage to the unit, read carefully and observe the following instructions.

To avoid shock and fire hazards:

1. Provide adequate space for ventilation to avoid internal heat build-up. Do not cover rear vents or install in a closed cabinet or shelves.

The unit is equipped with cooling fans. If you install the unit in an enclosure, be sure there is adequate space at the top of the unit to allow hot air to rise and escape.

If the monitor becomes too hot, the overheat protector will be activated and the monitor will be turned off. If this happens, turn off the power to the monitor and un-plug the power cord. If the room where the monitor is installed is particularly hot, move the monitor to a cooler location, and wait for the monitor to cool for 60 minutes.

If the problem persists, contact your dealer for service.

2. Do not use the power cord plug with extension cords or outlets unless all prongs can be completely inserted.
3. Do not expose unit to water or moisture.
4. Avoid damage to the power cord, and do not attempt to modify the power cord.
5. Unplug unit during electrical storms or if unit will not be used over a long period.
6. Do not open the unit which has potentially dangerous high voltage components inside. If the unit is damaged from opening the cabinet the warranty will be void. Moreover, there is a serious risk of electric shock.
7. Do not attempt to service or repair the unit. Tmm is not liable for any bodily harm or damage caused if unqualified persons attempt service or open the back cover. Refer all service to authorized Service Centers.

## **IMPORTANT TIPS: Caring for Your Monitor**

To avoid damage and prolong operating life:

1. Use only with 120V 50/60Hz AC power supply. Continued operation at line voltages greater than 120 Volts AC will shorten the life of the unit, and might cause a fire hazard.
2. Handle the unit carefully when installing it.
3. Locate set away from heat, excessive dust, and direct sunlight.
4. Protect the inside of the unit from liquids and small metal objects. In case of accident, unplug the unit and have it serviced by an authorized service center.
5. Do not hit or scratch the panel surface as this causes flaws on the surface of the screen.
6. For correct installation and mounting it is strongly recommended to use a trained, authorized dealer.
7. Like all phosphor-based display devices, monitors can be susceptible to uneven phosphor aging under certain circumstances. Certain operating conditions, such as the continuous display of a static image over a prolonged period of time, can result in uneven phosphor aging if proper precautions are not taken. To protect your investment in this monitor, please adhere to the following guidelines and recommendations for minimizing the occurrence of uneven phosphor aging:
  - Always enable and use your computer's screen saver function during use with a computer input source.
  - Display a moving image whenever possible.
  - Always power down the monitor when you are finished using it.
  - If viewing with a 4/3 aspect ratio for long periods of time, set side gray level at 3 or 4.

**If the monitor is in long term use or continuous operation take the following measures to reduce the likelihood of uneven phosphor aging:**

- Lower the BRIGHTNESS and CONTRAST levels as much as possible without impairing image readability.
- Display an image with many colors and color gradations (i.e. photographic or photo-realistic images).
- Create image content with minimal contrast between light and dark areas (for example, white characters on black backgrounds). Use complementary or pastel color whenever possible.
- Avoid displaying images with few colors and distinct, sharply defined borders between colors.

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## Contents of the Package

Cinema Screen monitor  
 Power cord  
 Ferrite cores  
 RGB cable (Mini D-Sub 15-pin to Mini D-Sub 15-pin connector)  
 Remote control unit with two AA batteries  
 User's manual

It is highly recommended that you have your monitor installed by a professional. If you are installing the monitor yourself, refer to the Reference section.

**NOTE:** If you are planning on attaching the floor stand to your monitor (and not the optional wall mount unit) you may want to use the safety metal fittings (provided) to give your monitor extra stability.

The safety metal fittings attach to the back of the screen and can then be used to secure the monitor to the wall with strong wire.

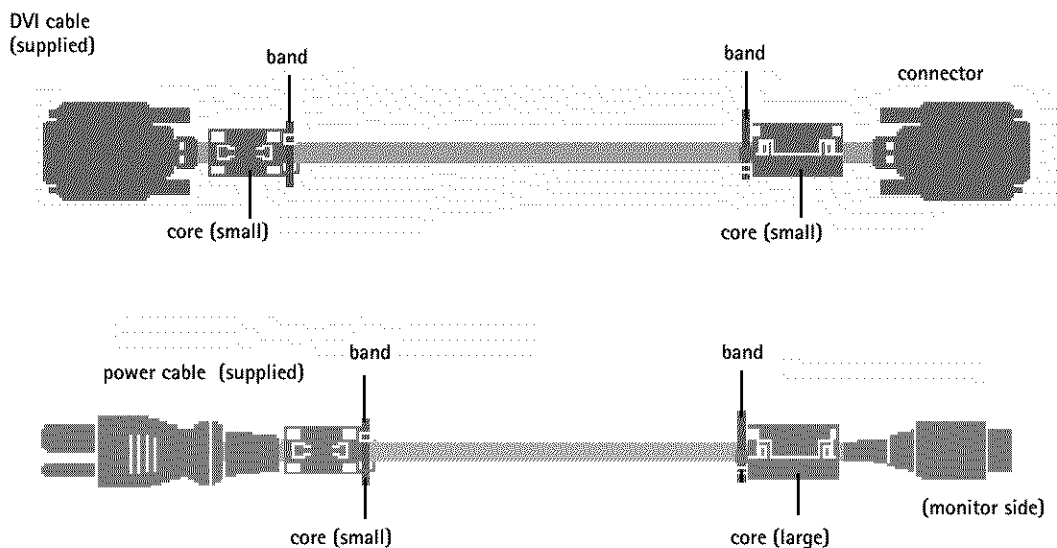
Contact your trained, authorized dealer for professional installation.

In order to conform to mandatory FCC standards, you must attach the supplied ferrite cores to both ends of the power cable (see below).

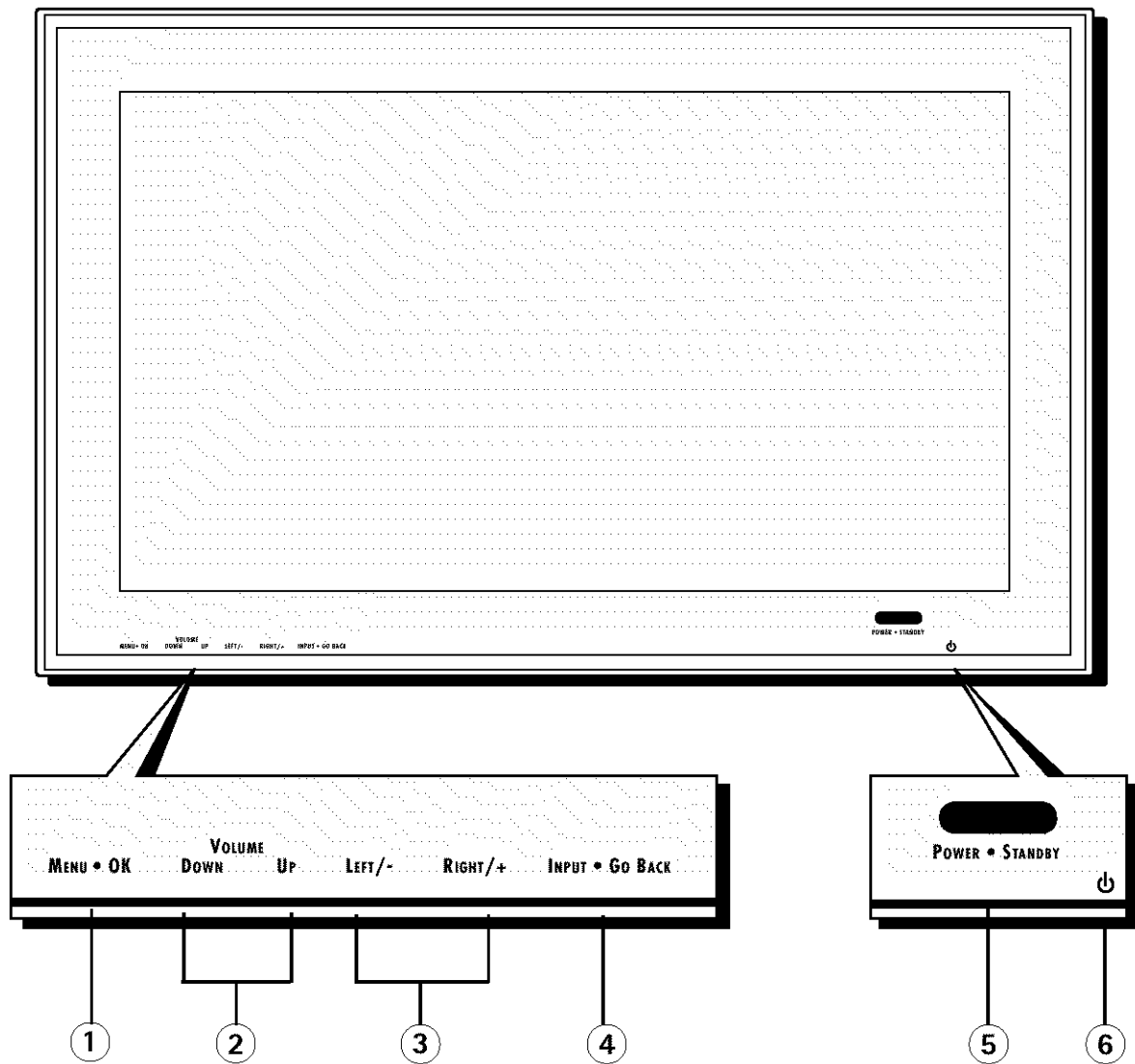
If you are connecting a computer to the monitor, you must attach the ferrite cores to both ends of the DVI cable to meet FCC standards.

## Attaching the ferrite cores

Set the ferrite cores on the both ends of the DVI cable (supplied), and both ends of the power cable (supplied). Close the lid tightly until the clamps click. Use the band (supplied) to secure the ferrite core.



## Part Names and Functions – Front View



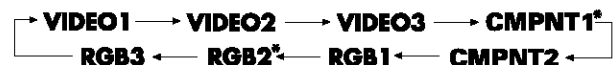
1. **MENU • OK** – If no menu is displayed, brings up the menu. If a menu is displayed, press to select a highlighted option.

2. **VOLUME** – Adjusts the volume. When an on-screen menu is being displayed, moves highlight up and down (s and t).

3. **LEFT/- AND RIGHT/+** – When Zoom mode is on (press OK on the remote to turn ZOOM on and bring up the zoom icon) press Right/+ to enlarge the image or Left/- to reduce the image.

When a menu is being displayed, used to navigate through menu (◀ and ▶).

4. **INPUT • Go BACK** – Switches the input, in the following order:



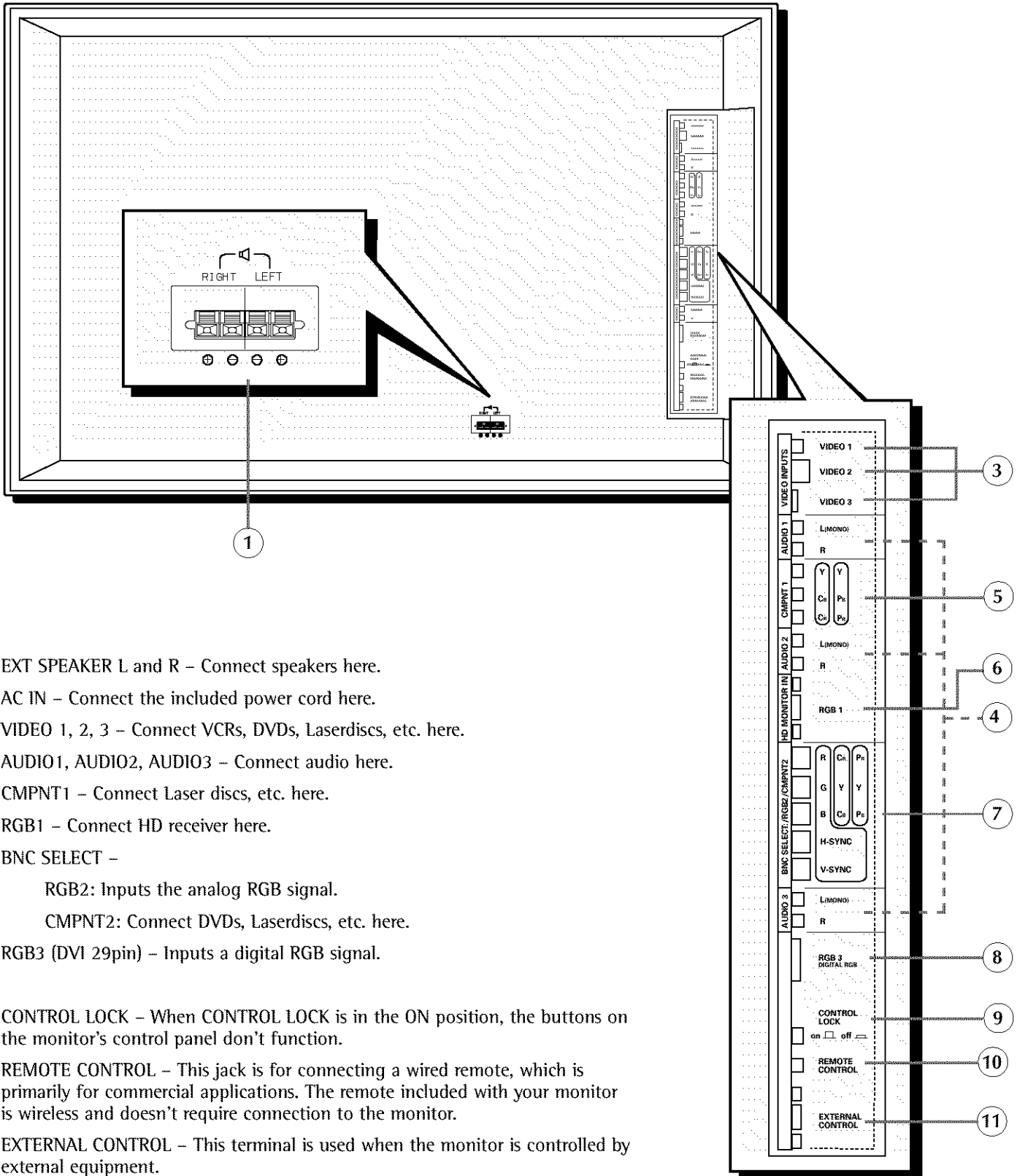
*\*Note: You can set up CMPNT1 or RGB2, but not both.*

When an on-screen menu is being displayed, returns you to the previous menu.

5. **POWER/STANDBY indicator** – When the power is on, the light is green. When the power is in Standby Mode, the light is red.

6. **⏻** – Turns the monitor's power on and off.

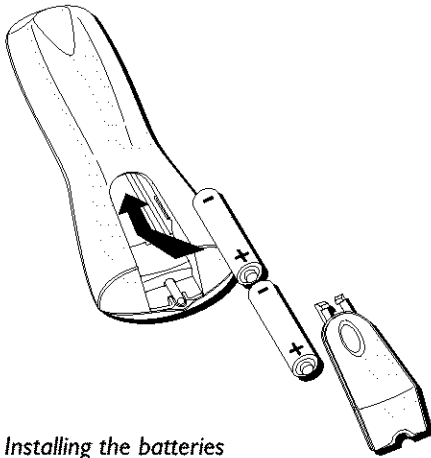
Part Names and Functions – Back View





## Battery Installation

- Remove the battery compartment cover from the back of the remote control.
- Insert batteries. Make sure the polarities (+ and -) are aligned correctly.
- Replace cover.



Installing the batteries

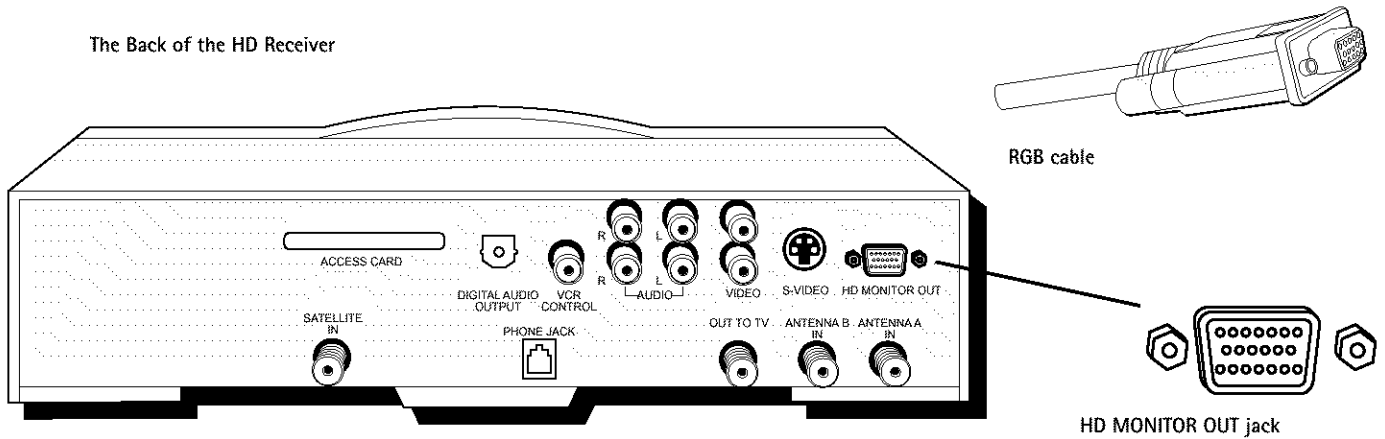
## Connecting an HD Receiver

RCA and PROSCAN HD (high definition) receivers come equipped with an RGB output jack for optimum quality. Using the RGB cable provided, connect the HD MONITOR OUT jack on the back of your HD receiver to the RGB1 (HD MONITOR IN)/AUDIO1 IN jack on the back of the monitor.

If your HD receiver does not have the type of jack pictured, connect your HD receiver using the component video jacks and RCA cable.

For more information on HD receiver connections, see your HD receiver user's manual.

The Back of the HD Receiver



## **Connecting Your VCR Or Laserdisc Player**

Use common RCA cables (not provided) to connect your VCR or laserdisc player to your monitor. To connect your VCR or Laserdisc player:

1. Turn off the power to the monitor and VCR or laserdisc player.
2. Connect one end of your RCA cable to the video output connector on the back of your VCR or laser disc player. Connect the other end to the video input on the monitor.
3. Use standard RCA cables to connect the audio from your VCR or laserdisc player to AUDIO2 input jacks on the monitor (if your VCR or laserdisc player has this capability). Be careful to keep your right and left channel connections correct for stereo sound.
4. Turn on the monitor and the VCR or laserdisc player.

*NOTE: Refer to your VCR or laserdisc player user's manual for more information about your equipment's video output requirements.*

## **Connecting Your DVD Player**

To connect your monitor to a DVD player:

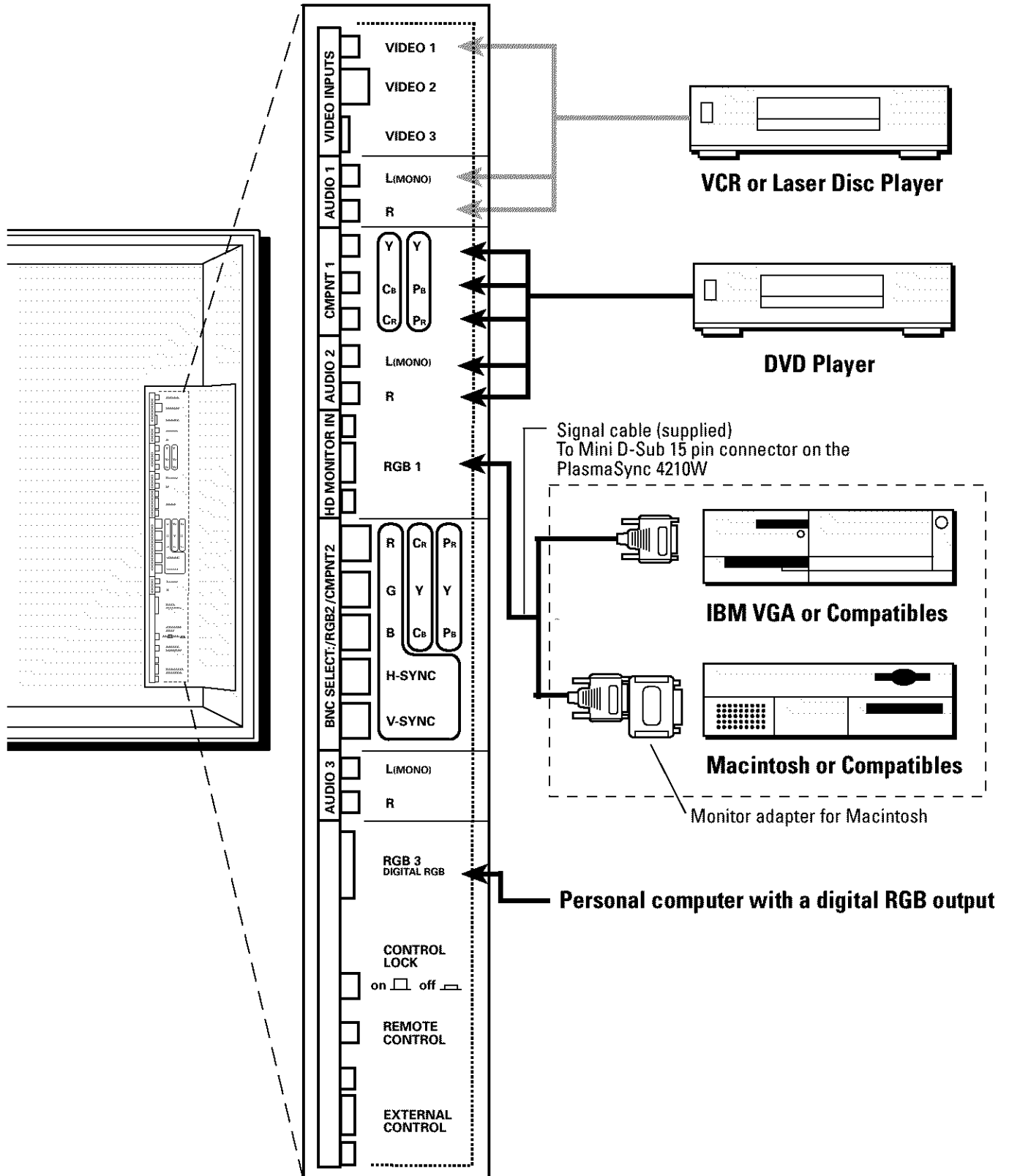
1. Turn off the power to the monitor and DVD player.
2. Use component video cables to connect your DVD player to the CMPNT1 input on the monitor, or use the DVD player's S-Video output. (Use a standard S-Video cable to connect to the S-Video input on the monitor.)
3. Turn on the monitor and the DVD player.

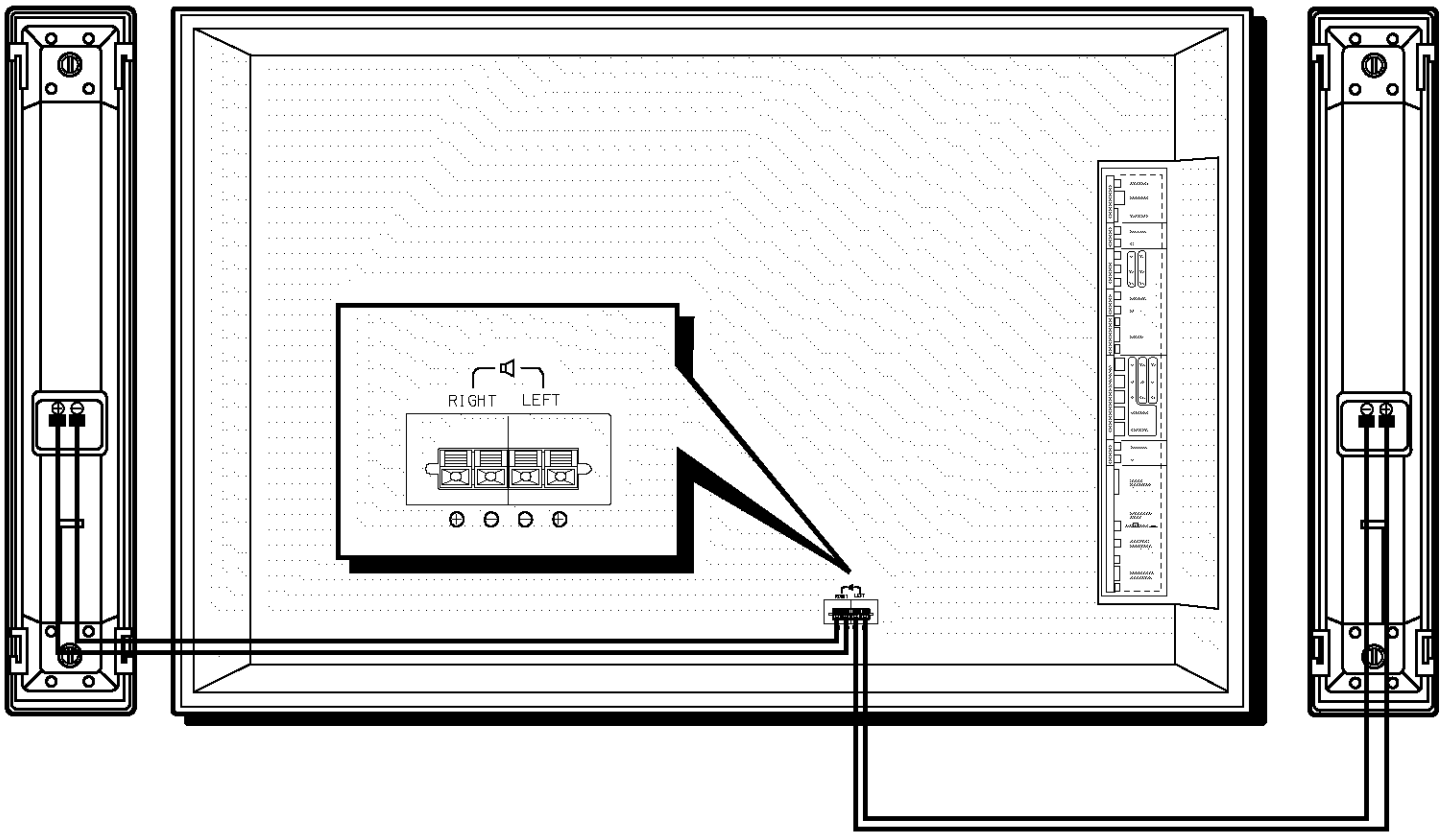
## **Connecting a Personal Computer**

If you have a computer with digital RGB output, connect it to the RGB3 jack on the monitor.

For IBM VGA (or compatible) or Macintosh (or compatible) connect to the RGB1 jack on the monitor.

**Connecting Components to the Monitor**





### Connecting External Speakers\* to the Monitor

The monitor doesn't have internal speakers, so in order to get sound you must connect external speakers. External speakers can reproduce sound from VIDEO or RGB signal sources.

External speakers may be connected directly to the SPEAKERS terminals or indirectly by connecting a stereo system amplifier to the audio outputs.

**CAUTION:** *Unplug the monitor and all connected components before connecting external speakers. Use only speakers with 6 to 8-ohm impedance and a power output rating of 7 watts or more.*

To connect external speakers directly to the monitor:

1. Strip the ends of the speaker wires.
2. Press down the tabs below the speaker terminals and insert the speaker wire and release the tab to secure the speaker wire connection.
  - [a] Connect the right speaker (located at right side of the monitor when viewed from the front) positive (+) wire to RIGHT +.
  - [b] Connect the right speaker negative (-) wire to RIGHT -.
  - [c] Connect the left speaker negative (-) wire to LEFT-.
  - [d] Connect the left speaker positive wire (+) to LEFT+.

\*Not included

## The Remote Control

**AUX** Operates the component you've programmed to work with the AUX button.

**VCR1, VCR2, DVD, HD RCVR** The component buttons used to put the remote into the correct mode to operate that particular component. The correct video source must first be selected or Autotuning must be set up.

**MUTE** Makes sound inaudible.

**VOL</VOL>** Adjusts the volume.

**SLEEP** Brings up the sleep timer, which turns the monitor off automatically after a set amount of time.

**GUIDE** In HD receiver mode, brings up the on-screen program guide.

**OK/ZOOM** In Monitor mode (using on-screen menus), press OK to select a highlighted item. When no menus are displayed, press OK to bring up the zoom pointer. Use the CH+/- buttons to zoom in/out.

**Arrows** Use to navigate through the menu screens and move the Zoom pointer in Zoom mode.

**MENU** Brings up the on-screen menu.

**Numbers** Use to make numerical entries.

**INPUT** Press to toggle through all inputs (RGB, Component, Video).

**CINEMA** Select screen sizes to suit the type of input you're watching.

**ON•OFF** Toggles power on and off for the components that you have programmed.

**MONITOR** Turns the monitor on and puts the remote in Monitor mode.

**WHO•MULTI** When in Monitor mode, activates the multi-screen feature. The Multi-screen feature allows you to select a screen mode for viewing a single picture, side-by-side pictures, or picture-in-picture (PIP). Brings up personal viewer profiles for some components.

**ZOOM IN** In zoom mode enlarges the picture. Use the arrow buttons to pan and scan the entire picture.

**CH+/CH-** Changes channels on the HD receiver when the remote is in HD receiver mode. When the Zoom mode is active, zooms in (CH+) or out (CH-).

**GO BACK** In HD receiver mode, returns you to the previous channel. When in the menu system, returns you to the previous menu.

**CLEAR** Clears on-screen displays.

**ANTENNA** In HD RCVR mode, switches the HD receiver between Antenna A and Antenna B.

**INFO** Brings up channel information.

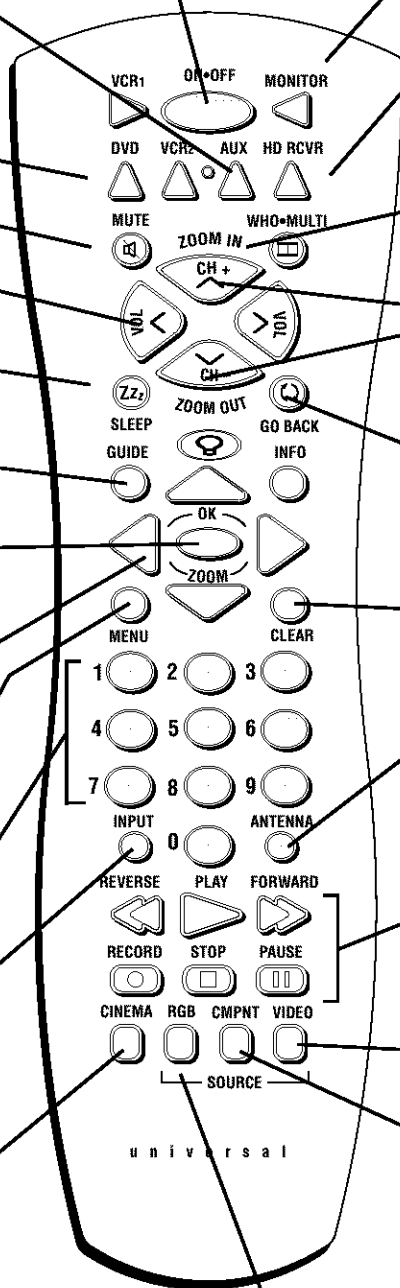
**REVERSE, PLAY, FORWARD, STOP, PAUSE, RECORD** (transport keys) Use with components programmed to work with your remote control.

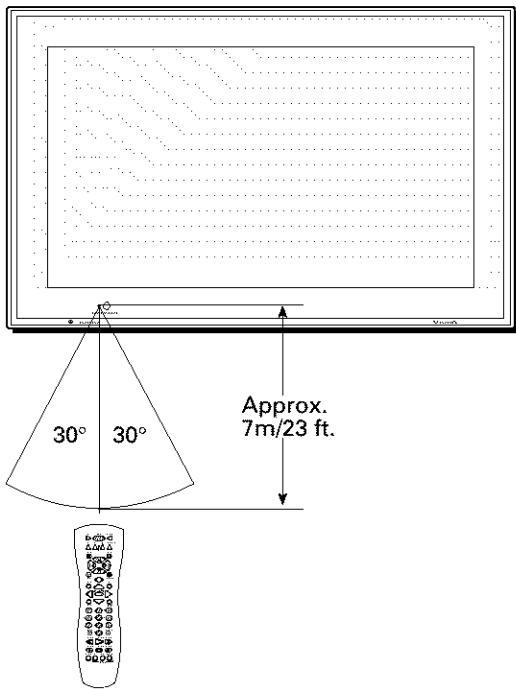
**VIDEO** Toggles through video inputs.

**CMPNT** Toggles between CMPNT1 and CMPNT2 inputs.

**RGB** Depending on how you set up the monitor, toggles between RGB1, RGB2\*, and RGB3.

\*Note: You can set up CMPNT2 OR RGB2, but not both. If CMPNT2 is set up, RGB2 will not appear when you use the RGB button.





## Using Your Remote Control

Use your remote control from a distance of about 7m/23 feet from the monitor's remote control sensor and at a horizontal angle of within 30°. The remote operates on line of sight, so if there is anything blocking the path between the remote and the remote control sensor on the front of the monitor, the remote may not work.

- Don't expose the remote control sensor on the front of the monitor to direct sunlight or strong artificial light.
- Don't get the remote control wet.
- Avoid heat and humidity.
- When not using the remote for a long period of time, remove the batteries.

## Programming the Remote

The universal remote control that came with your monitor is already programmed to operate most RCA, GE, and PROSCAN VCRs, DVD players, laserdisc players, and satellite receivers. This remote is also capable of operating many other brands of remote-controllable electronic components, but you must program it to do so.

## Find Out If You Need to Program the Remote

To determine whether the universal remote needs to be programmed, turn on one of your components, such as a VCR. Point the remote control at the component and press the component button (for example, the VCR button). Now press the ON•OFF button on the remote. If the component doesn't turn off, you need to program the remote control in order for it to operate that component.

## How to Program the Remote

1. Turn on the component you want the remote to operate (the red light on the remote turns on).
2. Look up the brand and code number(s) for the component on the code list on the following pages.
3. Press and hold the component button that corresponds to the component you want the remote to operate (VCR, RCA DVD, etc.).
4. Enter the code from the code list. When you begin entering numbers, the red light on the remote turns off. When the last number is entered, the red light turns back on. If the incorrect code is entered, the red light will flash.
5. Release the component button. The red light on the remote turns off.
6. Press ON•OFF to see if the component responds to the remote commands. If it doesn't, try pressing the component button and then ON•OFF again.
6. If you get no response, repeat these steps using the next code listed for your brand, until the component responds to the remote commands.

## How To Use the Remote Control After You've Programmed It

Once the remote control has been programmed successfully, you're ready to use it to operate other components.

1. Press one of the video source buttons to select a component (VIDEO or RGB) to operate.
2. Press the component button (MONITOR, VCR, DVD, AUX, or HD RCVR) to use the Transport buttons (REVERSE, PLAY, FORWARD, STOP, PAUSE, and RECORD) to operate the component.
3. Press ON•OFF to turn the component on or off.

*NOTE: If you keep pressing buttons and nothing happens, you may have the wrong video source or wrong component selected. You must select the correct video source and the component button that matches the component you want to operate.*

## Programmable Codes for the Remote Control

<u>VCR (VCR1, VCR2 or AUX button)</u>			
Admiral .....	2131	Gradiente .....	2026
Adventura .....	2026	Harley Davidson .....	2026
Aiko .....	2027	Harman Kardon .....	2009
Aiwa .....	2002, 2026	Harwood .....	2061
Akai .....	2003, 2004, 2005, 2007, 2008, 2111, 2112, 2113	Headquarter .....	2011
American High .....	2021	Hitachi .....	2002, 2055, 2056, 2057, 2107, 2111, 2120, 2122
Asha .....	2013	Hi-Q .....	2023
Audio Dynamics .....	2009, 2010	Instant Replay .....	2021
Audiovox .....	2014	JCL .....	2021
Bell & Howell .....	2011	JC Penney .....	2009, 2010, 2011, 2013, 2014, 2021, 2022, 2055, 2056, 2058, 2059, 2060, 2107, 2118
Beaumarck .....	2013	Jensen .....	2055, 2056, 2111
Broksonic .....	2012, 2025	JVC .....	2009, 2010, 2011, 2018, 2058, 2111, 2123
Calix .....	2014	Kenwood .....	2009, 2010, 2011, 2016, 2018, 2058, 2111, 2123
Candle .....	2013, 2014, 2015, 2016, 2017, 2018, 2019	KLH .....	2061
Canon .....	2021, 2022, 2114	Kodak .....	2014, 2021
Capehart .....	2020, 2110	Lloyd .....	2002, 2026
Carver .....	2062	Logik .....	2061
CCE .....	2027, 2061	LXI .....	2014
Citizen .....	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2027	Magnavox .....	2021, 2022, 2062, 2063, 2104, 2108, 2124
Colortyme .....	2009	Magnin .....	2013
Colt .....	2061	Marantz .....	2009, 2010, 2011, 2016, 2018, 2021, 2058, 2062, 2064
Craig .....	2013, 2014, 2023, 2061	Marta .....	2014
Curtis-Mathes .....	2000, 2002, 2009, 2013, 2016, 2018, 2021, 2022, 2024, 2115	Masushita .....	2021
Cybernex .....	2013	MEI .....	2021
Daewoo .....	2015, 2017, 2019, 2025, 2026, 2027, 2028, 2110	Memorex .....	2002, 2011, 2013, 2014, 2021, 2023, 2026, 2104, 2131
Daytron .....	2110	MGA .....	2029, 2065, 2113
Dbx .....	2009, 2010	MGN Technology .....	2013
Dimensia .....	2000	Midland .....	2053
Dynatech .....	2002, 2026	Minolta .....	2055, 2056, 2107
Electrohome .....	2014, 2029	Mitsubishi .....	2029, 2055, 2056, 2065, 2066, 2067, 2069, 2070, 2071, 2072, 2073, 2074, 2106, 2113, 2123
Electrohome .....	2014	Montgomery Ward .....	2075, 2131
Emerson .....	2002, 2012, 2014, 2015, 2021, 2024, 2025, 2026, 2029, 2030, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2044, 2045, 2047, 2065, 2105, 2113, 2116, 2117, 2130	Motorola .....	2021, 2131
Fisher .....	2011, 2023, 2048, 2049, 2050, 2051, 2052, 2118	MTC .....	2002, 2013, 2026
Fuji .....	2021, 2119	Multitech .....	2002, 2013, 2016, 2026, 2053, 2061
Funai .....	2002, 2026	NEC .....	2009, 2010, 2011, 2016, 2018, 2058, 2064, 2076, 2078, 2079, 2111, 2123
Garrard .....	2026	Nikko .....	2014
GE .....	2000, 2001, 2013, 2021, 2022, 2053, 2115, 2120	Noblex .....	2013
Goldstar .....	2009, 2014, 2018, 2054, 2121	Olympus .....	2021
		Optimus .....	2014, 2131
		Optonica .....	2096
		Orion .....	2035
		Panasonic .....	2021, 2022, 2109, 2125, 2126, 2127
		Pentax .....	2016, 2055, 2056, 2107, 2120
		Pentax Research .....	2018
		Philco .....	2021, 2022, 2062, 2063
		Philips .....	2021, 2062, 2096, 2124
		Pilot .....	2014
		Pioneer .....	2010, 2055, 2080, 2081, 2123
		Portland .....	2016, 2017, 2019, 2110
		PROSCAN .....	2000, 2001
		Protec .....	2061
		Pulsar .....	2104
		Quarter .....	2011
		Quartz .....	2011
		Quasar .....	2021, 2022, 2125
		RCA .....	2000, 2001, 2003, 2013, 2021, 2055, 2056, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2107, 2115, 2120, 2125
		Radio Shack/Realistic .....	2002, 2011, 2013, 2014, 2021, 2022, 2023, 2026, 2029, 2049, 2050, 2096, 2131
		Radix .....	2014
		Randex .....	2014
		Ricoh .....	2128
		Runco .....	2104
		Samsung .....	2005, 2013, 2015, 2033, 2053, 2112
		Sanky .....	2131, 2104
		Sansui .....	2010, 2092, 2111, 2123
		Sanyo .....	2011, 2013, 2023
		Scott .....	2012, 2015, 2025, 2032, 2035, 2038, 2065, 2093, 2116
		Sears .....	2011, 2014, 2021, 2023, 2048, 2049, 2050, 2051, 2055, 2056, 2107, 2118
		Sharp .....	2002, 2017, 2029, 2094, 2095, 2096, 2131
		Shintom .....	2004, 2056, 2061, 2098
		Shogun .....	2013
		Signature .....	2002, 2131
		Singer .....	2021, 2061, 2128
		Sony .....	2002, 2004, 2098, 2099, 2119, 2128
		STS .....	2021, 2107
		Sylvania .....	2002, 2021, 2022, 2026, 2062, 2063, 2065, 2124
		Symphonic .....	2002, 2026
		Tandy .....	2002, 2011
		Tashiko .....	2014
		Tatung .....	2058, 2111
		TEAC .....	2002, 2026, 2058, 2085, 2111

## Programmable Codes for the Remote Control

Technics .....	2021, 2109
Teknika .....	2002, 2014, 2021, 2026, 2100, 2129
TMK .....	2013, 2024, 2047
Toshiba .....	2015, 2049, 2051, 2055, 2065, 2093, 2116
ToteVision .....	2013, 2014
Unitech .....	2013
Vector Research .....	2009, 2010, 2015, 2016
Victor .....	2010
Video Concepts .....	2009, 2010, 2015, 2016, 2113
Videosonic .....	2013
Wards .....	2002, 2013, 2014, 2015, 2021, 2023, 2026, 2029, 2055, 2056, 2061, 2096, 2101, 2102, 2103, 2107, 2116, 2131
XR-1000 .....	2021, 2026, 2061
Yamaha .....	2009, 2010, 2011, 2018, 2058, 2111
Zenith .....	2004, 2098, 2104, 2119, 2128

Jasco .....	5011
Jerrold .....	5003, 5005, 5007, 5018, 5023, 5024, 5046, 5053
Magnavox .....	5025
Memorex .....	5026
Movie Time .....	5002, 5027, 5028
NSC .....	5002, 5027, 5028
Oak .....	5002, 5016, 5029
Panasonic .....	5048, 5052
Paragon .....	5026
Philips .....	5011, 5012, 5013, 5019, 5025, 5030, 5031, 5032
Pioneer .....	5033, 5034
Pulsar .....	5026
RCA .....	5047, 5049, 5052
Realistic .....	5009, 5049
Regal .....	5022, 5035
Regency .....	5017
Rembrandt .....	5003
Runco .....	5026
Samsung .....	5014, 5034
Scientific Atlanta .....	5006, 5036, 5037, 5038
Signal .....	5014, 5018
Signature .....	5003
SL Marx .....	5014
Sprucer .....	5052
Starcom .....	5007, 5018, 5053
Stargate .....	5014, 5018
Starquest .....	5018
Tandy .....	5040
Televue .....	5014
Tocom .....	5004, 5023, 5041
Toshiba .....	5026
Tusa .....	5018
TV86 .....	5027
Unika .....	5008, 5009, 5011
United Artists .....	5002
United Cable .....	5053
Universal .....	5008, 5009, 5010, 5011

Videoway .....	5044
Viewstar .....	5015, 5025, 5027, 5040
Zenith .....	5026, 5050, 5051

### Satellite Receiver (HD RCVR or AUX button)

Chapparral .....	5056, 5057
Drake .....	5058, 5059
GE .....	5000, 5001
General Instruments .....	5060, 5061, 5062
Panasonic .....	5075
Primestar .....	5076
PROSCAN .....	5000, 5001
RCA .....	5000, 5001
Realistic .....	5063
Sony .....	5072
STS1 .....	5064
STS2 .....	5065
STS3 .....	5066
STS4 .....	5067
Toshiba .....	5068
Toshiba .....	5073
Uniden .....	5069

### Audio (AUX button only)

(For RCA and Dimensia brands only)	
AM/FM .....	4003
Aux .....	4004
Phono .....	4005
CD .....	4007
Tape .....	4006

### Cable Box (AUX or HD RCVR button)

ABC .....	5002, 5003, 5004, 5005, 5006, 5007, 5053
Antronix .....	5008, 5009
Archer .....	5008, 5009, 5010, 5011
Cabletenna .....	5008
Cableview .....	5008
Century .....	5011
Citizen .....	5011
Colour Voice .....	5012, 5013
Comtronics .....	5014, 5015
Contec .....	5016
Eastern .....	5017
Garrard .....	5011
GC Electronics .....	5009
Gemini .....	5018, 5019, 5049
General Instrument .....	5003
Hamlin .....	5020, 5021, 5022, 5035, 5045
Hitachi .....	5003
Hytex .....	5002



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## Basic Operations

### Power

To turn the monitor on and off:

1. Plug the power cord into an active AC power outlet.
2. Press the ON•OFF button on the remote control or the monitor button on the unit. The monitor's POWER/STANDBY indicator turns green when the monitor is on.
3. Press the ON•OFF button on the remote control or the unit to turn it off. The monitor's POWER/STANDBY indicator turns red and the standby mode is set (only when turning off the unit with the remote control).

### Volume

To adjust the volume:

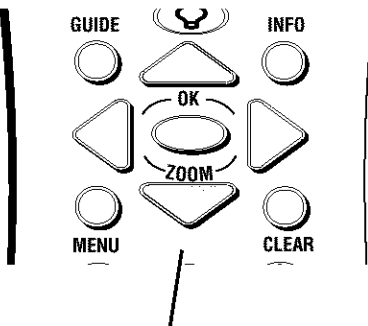
1. Press and hold the VOL > button (on the remote control or the unit) to increase to the desired level.
2. Press and hold the VOL < button (on the remote control or the unit) to decrease to the desired level.

*Note: External speakers are required for sound.*

### Mute

Press the MUTE button on the remote control to reduce the sound to an inaudible level. Press MUTE again to restore the sound.

### Zoom



*These are the buttons on the remote you use to navigate through the monitor's on-screen menu system.*

1. Press the ZOOM button to display the zoom pointer.
2. Press CH+ to enlarge the picture. Use the arrow buttons to pan right, left, up and down.
3. To reduce the picture, press the CH- button.
4. Press the ZOOM button to remove the pointer and take the display out of zoom mode.

### Navigating the Menus

You can adjust monitor options through the monitor's menu system. To access the main menu, press the MENU button on the remote control or MENU•OK on the front of the monitor.

There are a few things you need to know to navigate through the menu system. The navigation buttons are the set of arrow-shaped buttons in the middle of the remote (See illustration on left).

Use the ▲ and ▼ buttons on the remote to move the menu highlight up and down.

Use the ◀ and ▶ buttons to move the highlight and change settings.

Press the GO BACK button on the remote to return to a previous menu.

You can return the monitor to the factory settings at any time by using the RESET option in the FUNCTION menu. Remember, if you choose to reset, ALL settings will return to the factory settings.

## The Multi-Screen Feature

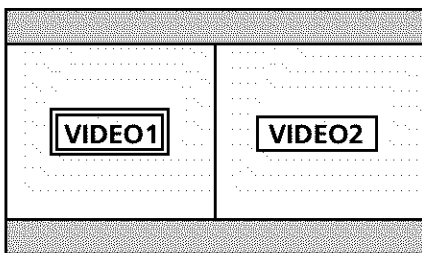
The Multi-Screen feature is used to show either a single picture or two pictures on the screen at the same time. One of the pictures must be from the RGB input.

**SINGLE** – Displays a single picture on the screen.

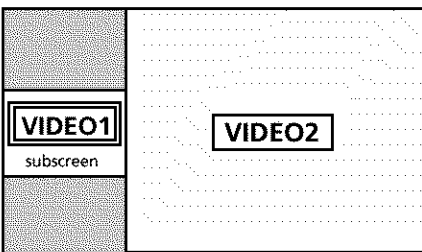
**SIDE BY SIDE** – Displays two pictures from different input signals side-by-side.

**PICTURE IN PICTURE** – Displays two pictures from different input signals; one fills the screen and one appears in a window on top of the other picture.

### Side-By-Side

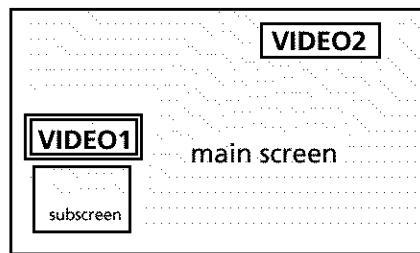


Side-by-side 1: VIDEO1 is the active picture.

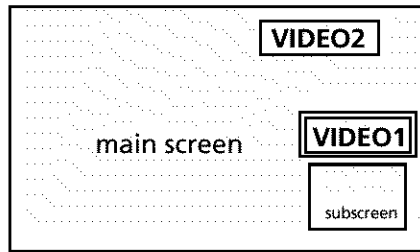


Side-by-side 2: VIDEO2 is the active picture.

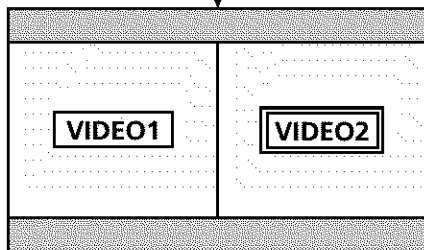
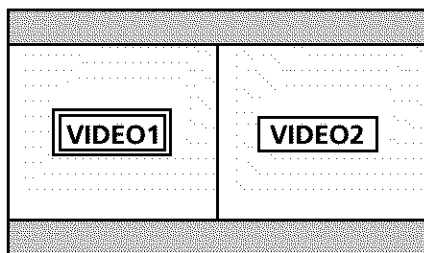
### Picture-in-Picture



Picture-in-picture (window on the left): VIDEO1 is the active picture.



Picture-in-picture (window on the right): VIDEO1 is the active picture.



The top screen shows VIDEO1 as the active picture. The bottom screen shows VIDEO2 as the active picture.

To use the Multi-Screen feature:

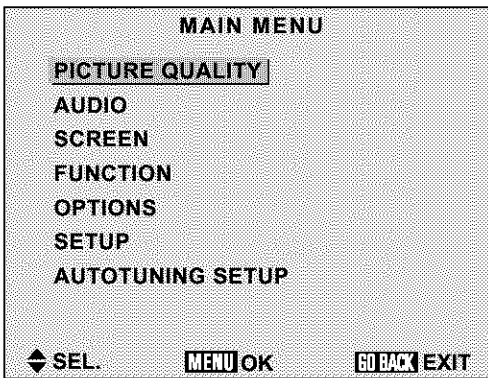
1. Press the WHO•MULTI button on the remote to select a mode.
2. If side-by-side mode or picture-in-picture mode has been selected, use the left/right arrow buttons to position the subscreen as shown below.
3. The active picture (indicated in the above illustrations by the double box) is the picture that is affected by remote actions and menu selections. To switch the active picture, press the OK button. Press the OK button again to change back to the other picture.

*Note: Changing the active picture doesn't change the size or location of the pictures.*

### Selecting the Input Signals to be displayed

To change the input signals displayed in multiscreen operations:

1. Press the MULTI button to activate the Multiscreen function. Press the OK button to make the desired picture active.
2. Press the RGB, VIDEO or CMPNT button to change the input signal. The INPUT•GO BACK button on the front of the monitor can also be used to change input selection.



This is the main menu with the PICTURE QUALITY option highlighted. Press OK to bring up the highlighted menu.

## On-Screen Menu Operation

To access the main menu, press the MENU button on the remote. The MAIN MENU is displayed on the screen. The main menu contains a list of all the menus that control your monitor. To select a menu, use the up/down arrow buttons on the remote to highlight the desired menu. When the desired menu is highlighted, press the OK or MENU button to select.

*Note: Different components use different types of input (RGB, video, etc). Some menu options apply to only one type of input, so they only appear when they apply to the currently active input. For example, the COLOR and TINT options in the PICTURE QUALITY menu only appear when you are adjusting standard video input (VIDEO1, VIDEO2, VIDEO3).*

## The Picture Quality Menu

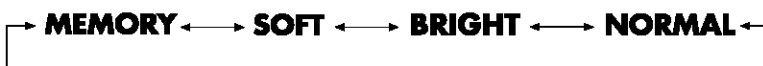
### Setting the Picture Mode with the PRESETS Option

The monitor has preset viewing modes that can be selected depending on your viewing environment. Each preset mode has the contrast, brightness and sharpness adjusted for a specific viewing situation.

- MEMORY – This mode allows you to set and save your own picture adjustments.
- SOFT – Use this mode when watching your Monitor in a dark room. Soft mode provides a darker, finer picture, like the screen in movie theaters. These settings are preset for you and can't be changed.
- BRIGHT – Use this mode when watching your monitor in a bright room. This mode provides a picture with distinct differences between light and dark areas. These settings are preset for you and can't be changed.
- NORMAL – The factory default.

To change the picture mode:

1. From the main menu, select PICTURE QUALITY. The PICTURE QUALITY Menu will appear.
2. Highlight the PRESETS option and press the ► key on the remote to select it. The PRESETS window appears.
3. Use the ► button on the remote to select the desired mode. The mode switches as follows when the ► button is pressed:



*Note: If you don't push the ► button within 5 seconds, the current selection is set and the previous screen reappears.*

Once you've selected the desired mode, press OK or MENU. The picture mode is now set and you are returned to the PICTURE QUALITY screen. If you are using MEMORY mode, you can manually adjust the picture settings (contrast, black level, and sharpness). You can continue adjusting settings in the PICTURE QUALITY menu, return to the main menu, or exit the menu system.

To return to the main menu, press the GO BACK button on the remote. To exit the menu system, press CLEAR.

## Adjusting the Picture Settings in MEMORY Mode

In MEMORY mode, you can set and save the following picture adjustments:

**CONTRAST** – Changes the picture's contrast (between light and dark).

**BLACK LEVEL** – Makes the picture lighter or darker.

**SHARPNESS** – Changes the picture's sharpness.

**COLOR** – Changes color density (video input only).

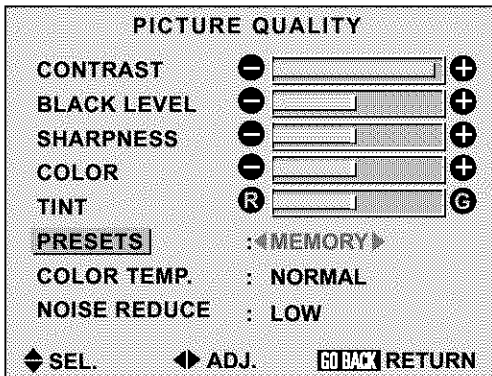
**TINT** – Changes picture tint (video input only).

**COLOR TEMP** – Changes the color tone.

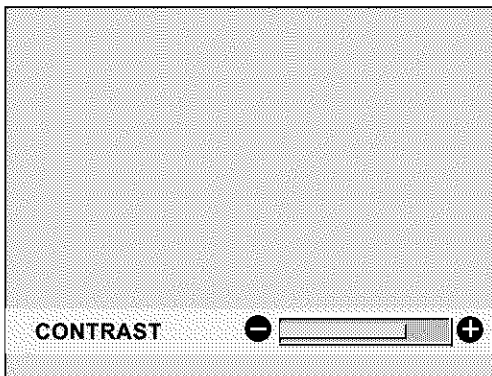
**NOISE REDUCE** – (noise reduction)– Removes extraneous information from the signal to make the picture clearer.

*NOTE: Only the contrast and brightness can be adjusted when a computer signal is used.*

Once you have selected MEMORY mode, you can adjust the picture settings. For example, to change the contrast setting:



This is the PICTURE QUALITY menu with the PRESETS option highlighted.



This is the CONTRAST screen.

1. Use the ▲ or ▼ button to highlight the CONTRAST option. Press the ► button to select it. The CONTRAST window appears. Use ◀ and ▶ buttons to adjust the contrast.

*NOTE: If you don't push the ◀ or ▶ button within 5 seconds, the current setting is accepted and the previous screen reappears.*

2. Once the contrast is adjusted, press OK or MENU. The contrast is set and you are returned to the PICTURE QUALITY menu.
3. Use the same procedure to adjust the black level and sharpness settings.
4. When you are finished adjusting the picture settings, press GO BACK to return to the main menu or press CLEAR to exit the menu system.

If the "CONTROL NOT AVAILABLE" message appears when you are trying to change the picture settings, make sure the preset mode is set to MEMORY. You can only change picture settings in MEMORY mode. The other modes are pre-set and can't be changed.

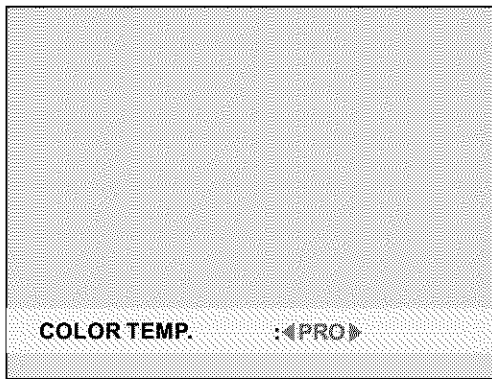
## Setting the Color Temperature

The color temperature setting controls how warm (red) or cool (blue) your picture is. The COLOR TEMP option has 4 settings:

- Normal
- Warm
- Pro (lets you select settings individually)
- Cool

For regular viewing, Normal, Warm or Cool is recommended. The PRO setting is generally used only for professional applications. To change the COLOR TEMP setting:

1. From the main menu, highlight and select the PICTURE QUALITY menu.



This is the COLOR TEMP. screen with PRO as the current selection.

2. Use the arrow buttons on the remote to highlight the COLOR TEMP option. Press the ▶ button to select it. The COLOR TEMP screen appears.
3. Use the ◀ and ▶ buttons to select the desired COLOR TEMP setting. The settings switch as follows:



*NOTE: If you don't push the ◀ or ▶ button within 5 seconds, the current setting is accepted and the previous screen reappears.*

4. Once the desired color temp is selected, press OK or MENU. If you choose the PRO setting, the WHITE BALANCE screen appears. It allows individual setting of white and dark balance for each color (red, green and blue).

**GAIN** This adjusts the color balance for light/bright colors.

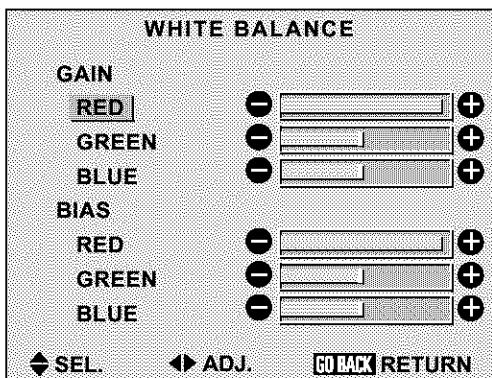
**BIAS** This adjusts the color balance for dark colors.

### To change the white balance GAIN setting:

1. Highlight the RED, GREEN or BLUE GAIN option and press the ▶ button. The GAIN screen for that color appears.
2. Adjust the balance using the ◀ and ▶ keys.

*NOTE: If you don't push the ◀ or ▶ button within 5 seconds, the current setting is accepted and the previous screen reappears.*

3. When you have the desired setting, press OK or MENU. The GAIN is adjusted and you are returned to the WHITE BALANCE screen.
4. When you have completed all the desired white balance adjustments, Press the GO BACK button to return to the PICTURE menu. You can continue adjusting picture settings, return to the main menu or press CLEAR to exit the menu system.



This is the WHITE BALANCE screen with the RED GAIN option highlighted.

# The Menu System

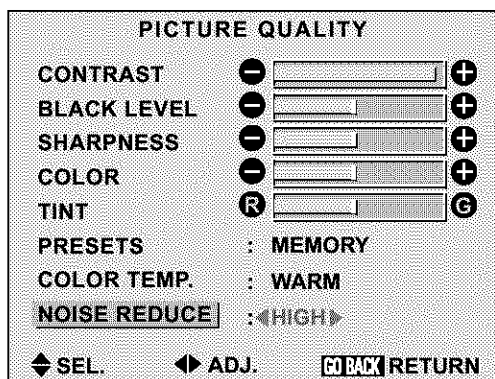
## Reducing Noise in the Picture

Noise is a term used to describe extraneous bits of information in the signal that affect the clearness of the picture. You can use the Noise Reduction (NOISE REDUCE) setting if your reception is poor or when playing video tapes that have poor picture quality.

The NOISE REDUCE option has four settings, including OFF. The higher the setting, the stronger the effect. The settings switch as follows when the ► button is pressed:

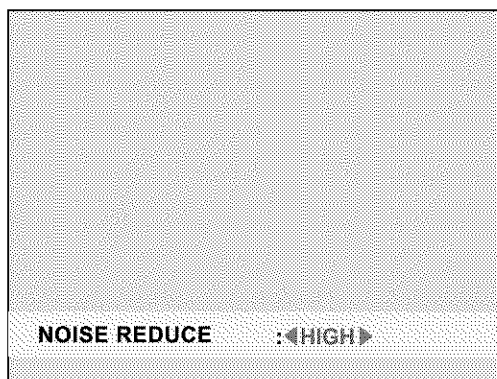


To change the noise reduction setting:



This is the PICTURE QUALITY menu with the NOISE REDUCE (noise reduction) option highlighted.

1. From the PICTURE QUALITY menu, highlight the NOISE REDUCE option, and select it by pressing the ► button. The NOISE REDUCE SCREEN is displayed.
2. Use the ◀ and ▶ buttons to select the desired noise reduction setting.  
*NOTE: If you don't push the ◀ or ▶ button within 5 seconds, the current setting is accepted and the previous screen reappears.*
3. When the desired setting is displayed, press OK to return to the PICTURE QUALITY menu. You can continue adjusting picture settings, return to the main menu, or press CLEAR to exit the menu system.



This is the NOISE REDUCE (noise reduction) screen.

## The Audio Menu

The AUDIO menu allows you to adjust the treble, bass and left/right balance of your external speakers.

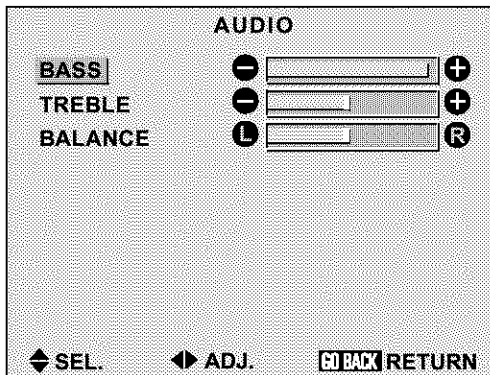
BASS – Changes the level of low frequency sound.

TREBLE – Changes the level of high frequency sound.

BALANCE – Changes the balance of the left and right speakers.

### Menu Operations

To access the AUDIO menu:



This is the AUDIO menu with the BASS option highlighted. Press the right arrow button to select it.

1. From the main menu, highlight and select the AUDIO option. The AUDIO menu is displayed.
2. Use the s and t arrow buttons on the remote to highlight an option (for example, BASS).
3. Use the ◀ and ▶ buttons to adjust to the desired setting.
4. You can continue adjusting audio settings, press GO BACK to return to the main menu, or press CLEAR to exit the menu system.



# The Menu System

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## The Screen Menu

The SCREEN menu allows you to set the monitor to automatically select the correct mode for viewing a particular movie and to change the positions of on-screen menus.

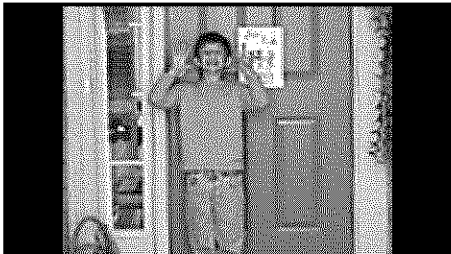
### Selecting a Viewing Size

When viewing with a component *other than your HD receiver\**, you can set the screen mode to one of four screen sizes to suit the type of input you are watching. Select the screen mode with the CINEMA button on the remote. The screen sizes are as follows:



Fill

FILL expands in both vertical and horizontal directions while the correct proportions are maintained. The picture is not distorted, just closer.



Normal

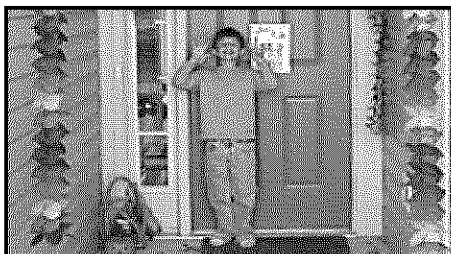
NORMAL displays a picture with a 4:3 aspect ratio (standard video). Because this mode fills the screen vertically, but not horizontally, black bars will appear on the right and left sides of the picture.

*Note: If viewing with a 4:3 aspect ratio for long periods of time, set side gray level at 3 or 4.*



Full

FULL expands the picture in the horizontal direction only. This option corrects the aspect ratio of images that have been compressed or horizontally "squeezed."



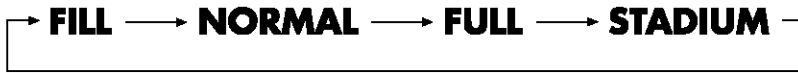
Stadium

STADIUM expands horizontally – the center of the picture is almost normal while the edges are considerably expanded. This mode is intended for watching video with a 4:3 aspect ratio on a wide screen.

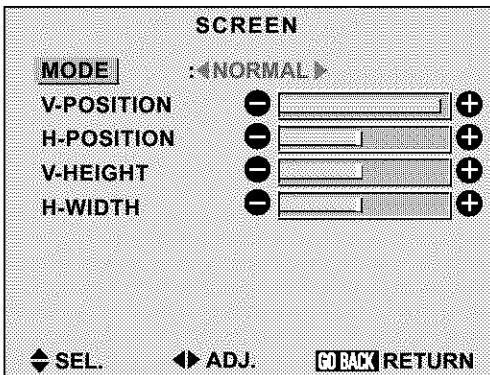
*Note: In Stadium mode, only the V-position and H-position are displayed. You can't change the height and width.*

To change the viewing size:

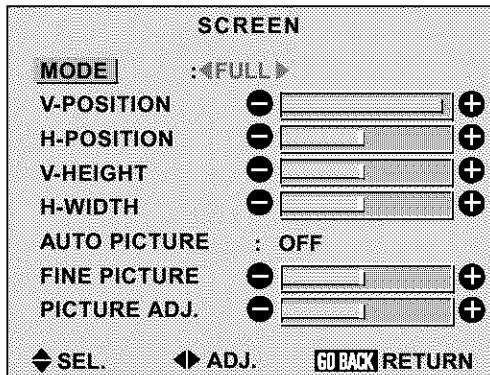
1. Press the CINEMA button on the remote control.
2. The current viewing size will be displayed. Press the CINEMA button again to switch to the next size. The size switches as follows:



*\*Note: When viewing with an HD receiver, use the receiver's screen format selections to set the proper ratio.*



The SCREEN menu with the MODE option highlighted.



The AUTO PICTURE option only appears if you have a computer connected.

## Adjusting the Picture Position and Size

The SCREEN menu lets you adjust the position and size of the picture.

The first two options, V-POSITION and H-POSITION, adjust the placement of the picture on the screen. For example, if the picture is too far to the left, you can use the H-POSITION to move it to the right. To adjust the position of the picture on the screen:

1. From the main menu, highlight and select the SCREEN option. The SCREEN menu is displayed.
2. Use the s and t buttons to select the mode you want to change.
3. When the desired mode is highlighted, press the ► button. The selected mode screen will be displayed.

Use the arrow buttons to adjust the position of the picture.

*NOTE: If you don't push the an arrow button within 5 seconds, the current setting is accepted and the previous screen reappears.*

4. When you've adjusted to the desired setting, press the GO BACK button on the remote to return to the SCREEN menu.

The V-HEIGHT and H-WIDTH options expand and contract the size of the picture to fill the screen. For example, if the picture is slightly wider than the screen, you can use the H-WIDTH option to shrink the picture horizontally.

*Note: These options are not available in STADIUM mode.*

To adjust the screen size:

1. Select the desired option from the screen menu and press the ► button. The selected mode window will be displayed.
2. Use the ◀ arrow buttons to adjust the size of the picture.

*NOTE: If you don't push an arrow button within 5 seconds, the current setting is accepted and the previous screen reappears.*

3. When you've adjusted to the desired setting, press OK to select and return to the SCREEN menu.

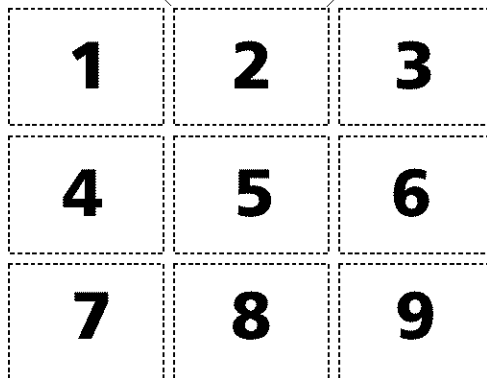
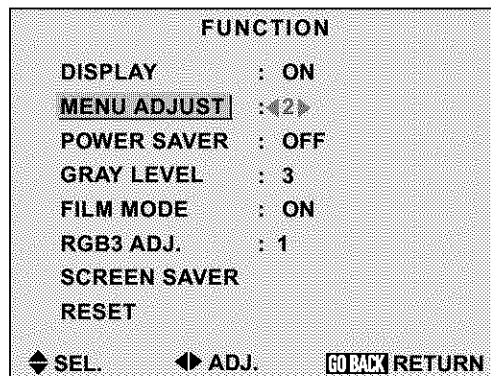
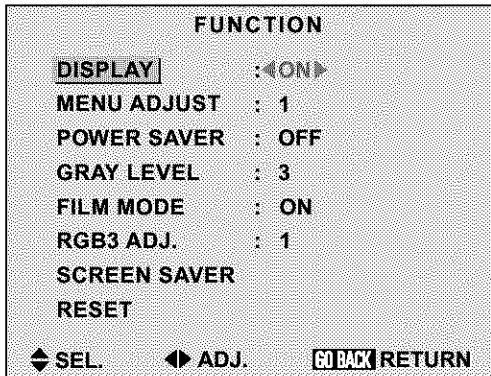
## Auto Picture

The AUTO PICTURE function appears in the SCREEN menu only if you have a computer connected to the monitor. When this feature is turned on, it automatically adjusts flickering and striped patterns in a computer image. If you want to adjust these manually:

1. Select the AUTO PICTURE option from the SCREEN menu. Press the ► button to turn AUTO PICTURE off. When AUTO PICTURE is turned off, the FINE PICTURE and PICTURE ADJ. options are displayed beneath it.
2. Select an option and press the ► button. The screen for that option will be displayed. Use the ◀ and ► buttons to adjust that option. Press OK to return to the SCREEN menu.

## The Function Menu

The FUNCTION menu contains options that control on-screen displays (other than the menu system) and how the picture is displayed.



The number 2 position will display on-screen menus in the top center of your screen.

## On-Screen Displays

On-screen displays (different than the menu system) appear by default to give you information about an option you have selected. For example, when you switch inputs the currently selected input name (for example, CMPNT1) is displayed on the screen. To turn on-screen displays off:

1. From the main menu, highlight and select the FUNCTION option. The FUNCTION menu is displayed.
2. Highlight and select the DISPLAY option. Use the ► button to toggle on-screen displays on or off.  
*Note: Turning the DISPLAY option off does not affect on-screen menus. Menus can't be turned off.*
3. You can continue setting options in the FUNCTION menu, press GO BACK to return to the main menu, or press CLEAR to exit the menu system.

## Adjusting the Position of the Menu Display

The on-screen menus can be displayed in different positions on the screen. There are a total of nine possible positions shown in the grid on the left.

To adjust the position of the on-screen menus:

1. From the main menu, highlight and select the FUNCTION option. The FUNCTION menu is displayed.
2. Highlight and select the MENU ADJUST option. Use the ► button to scroll through the menu positions. As you press the ► button, the menu will move around to the different positions.
3. When you have the menu in the desired position you can press the s or t arrow to select another option in the FUNCTION menu, press GO BACK to return to the main menu, or press CLEAR to exit the menu system.

FUNCTION	
DISPLAY	: ON
MENU ADJUST	: 1
<b>POWER SAVER</b>	: <b>ON</b>
GRAY LEVEL	: 3
FILM MODE	: ON
RGB3 ADJ.	: 1
SCREEN SAVER	
RESET	

◀ SEL.    ▶ ADJ.    GO BACK RETURN

This is the FUNCTION menu with the POWER SAVER option highlighted.

## Setting the POWER SAVER for Computer Images

The POWER SAVER function can be used when the signal source to the monitor comes from a computer conforming to the VESA DPMS format. This function automatically reduces the monitor's power consumption if no operation is performed for a certain amount of time. POWER SAVER can be turned on or off.

If the computer's power isn't turned on or if the computer and selector tuner are not properly connected, POWER SAVER is set to OFF.

For instructions on using the computer's power management function, see your computer's operating manual.

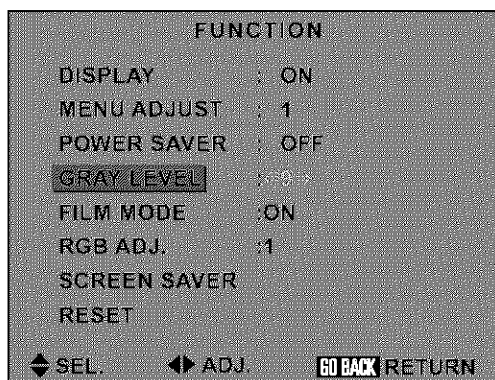
To turn the monitor's POWER SAVER function on or off:

1. From the main menu, highlight and select FUNCTION. The FUNCTION menu is displayed.
2. Highlight the POWER SAVER option.
3. Use the ► button to toggle the setting ON or OFF.
4. You can continue making adjustments in the FUNCTION menu, return to the previous menu by pressing the GO BACK button or press CLEAR to exit the menu system.

The POWER/STANDBY indicator shows the status of the POWER SAVER function. See below for status and description.

### POWER/STANDBY indicator

POWER SAVER Mode	POWER/STANDBY indicator	Power Saver Operating Status	Description	Turning the Picture Back On
On	Green	Not activated	Horizontal and vertical synchronizing signals are present from the computer.	Picture already on.
Standby	Yellow	Activated	No horizontal synchronizing signals are present from the computer.	Use the keyboard or mouse. The picture reappears immediately.
Suspend	Red	Activated	No vertical synchronizing signals are present from the computer.	Use the keyboard or mouse. The picture reappears, but more slowly than when in standby mode.
Off	Red	Activated	No horizontal and vertical synchronizing signals are present from the computer.	Use the keyboard or mouse. The picture reappears, but more slowly than when in either standby or suspend mode.



This is the FUNCTION menu with the GRAY LEVEL option highlighted.

**NOTE:** Repeated watching with the gray level set to black may affect the quality of your picture. To reduce the effects of uneven phosphor aging, set the gray level to 3 or 4.

If viewing with a 4:3 aspect ratio for long periods of time, set side gray level at 3 or 4.

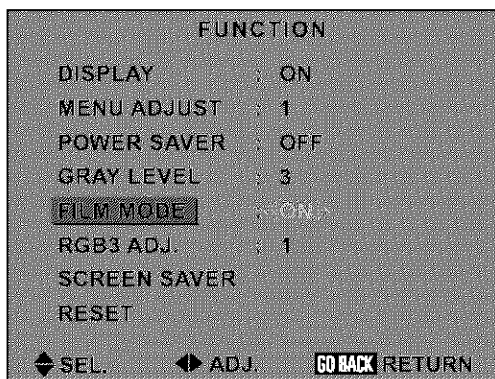
## Setting the Gray Level for the Sides of the Screen

The GRAY LEVEL function allows you to set the gray level for the sides of the screen where nothing is displayed (on the left and right sides of the screen when it is set to 4:3 size). The level can be adjusted from 0 to 15. The factory setting is 3 (dark gray).

*NOTE:* Repeated watching with the gray level set to black may affect the quality of your picture. To reduce the effects of uneven phosphor aging, set the gray level to 3 or 4.

To adjust the gray level for the sides of the screen:

1. From the main menu, highlight and select FUNCTION. The FUNCTION menu is displayed.
2. Highlight the GRAY LEVEL option.
3. Use the ► button to scroll through the levels.
4. When the desired gray level is highlighted, press the ◀ button to return to the FUNCTION menu options. You can continue making adjustments within the FUNCTION menu, press GO BACK to return to the previous menu or press CLEAR to exit the menu system.



This is the FUNCTION menu with the FILM MODE option highlighted.

## Adjusting for Flickering with Film Mode

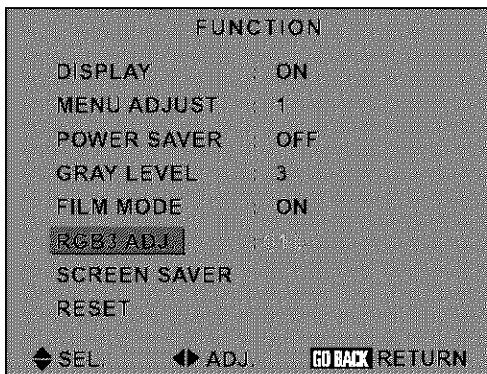
There is some amount of flickering that occurs in an image when it is transferred from film to video. Film mode is used to minimize the flicker.

**ON** All images are displayed in film mode.

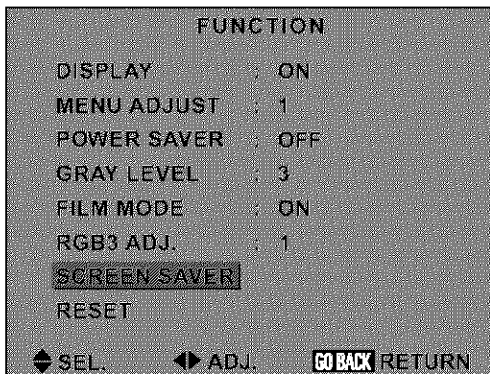
**OFF** Film mode is off.

To turn FILM MODE ON:

1. From the main menu, highlight and select FUNCTION. The FUNCTION menu is displayed.
2. Highlight the FILM MODE option.
3. Use the ► button to scroll through the three modes until ON is displayed.
4. Press the ◀ button to return to the FUNCTION menu options. You can continue making adjustments within the FUNCTION menu, return to the previous menu by pressing GO BACK or press CLEAR to exit the menu system.



This is the FUNCTION menu with the RGB3 ADJ. option highlighted.



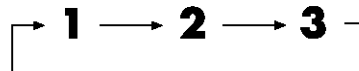
This is the FUNCTION menu with the SCREEN SAVER option highlighted.

Setting PLE to LOCK is recommended if you are displaying stationary pictures.

### Adjusting the Monitor in RGB3 Input Mode

If the picture is not stable in RGB3 mode, use the RGB3 ADJUST feature to adjust it.

1. From the main menu, highlight and select OPTIONS. The OPTIONS menu is displayed.
2. Highlight the RGB3 ADJUST option.
3. Use the ► button to select the desired adjustment (1, 2 or 3). The choices scroll as follows:



4. When the desired number is selected, press the ◀ button to return to the FUNCTION menu items. You can continue making adjustments within the FUNCTION menu, press GO BACK to return to the previous menu or press MENU or CLEAR to exit the menu system.

*Note: When AUTO PICTURE is on, switch it off and back on again to return the display position to its original position.*

### Setting the SCREEN SAVER

The SCREEN SAVER option contains three features in one. These features are used principally for PC operation.

The PLE (Peak Luminance Enhancement) function sets the luminance level to a fixed mode to reduce the effects of phosphor aging.

The ORBITER moves the image around the screen intermittently to reduce the effects of phosphor aging.

The INVERSE function works in RGB mode only. INVERSE inverts the video signal, playing the image in a negative format.

### Setting the PLE

PLE has two options:

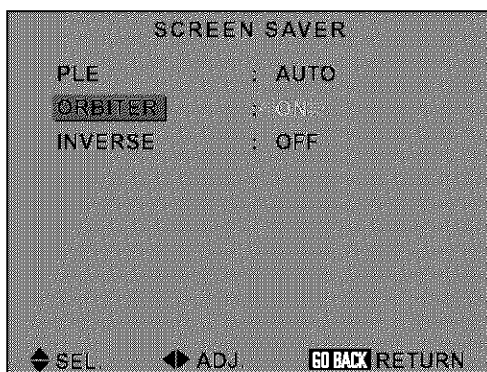
AUTO – luminance level (contrast) is normal.

LOCK – dims picture to reduce phosphor aging.

The factory setting is AUTO. Setting the PLE option to LOCK dims the picture – the contrast will be lower than normal.

To set the PLE level to LOCK:

1. From the main menu, highlight and select FUNCTION. The FUNCTION menu is displayed.
2. Highlight the PLE option.
3. Use the ► button to select LOCK.
4. Press the ◀ button to return to the FUNCTION menu options. You can continue making adjustments within the FUNCTION menu, return to the previous menu or press MENU or CLEAR to exit the menu system.



This is the SCREEN SAVER menu with the ORBITER option highlighted.

## Turning ORBITER on

The factory setting for ORBITER is OFF. To turn ORBITER ON:

1. From the main menu, highlight and select FUNCTION. The FUNCTION menu is displayed.
2. Highlight the SCREEN SAVER option (the SCREEN SAVER menu is displayed).
3. Highlight the ORBITER option.
4. Use the ► button to select ON.
5. Press the ◀ button to return to the FUNCTION menu options. You can continue making adjustments within the FUNCTION menu, return to the previous menu or press MENU or CLEAR to exit the menu system.

## Setting the INVERSE

INVERSE has three options:

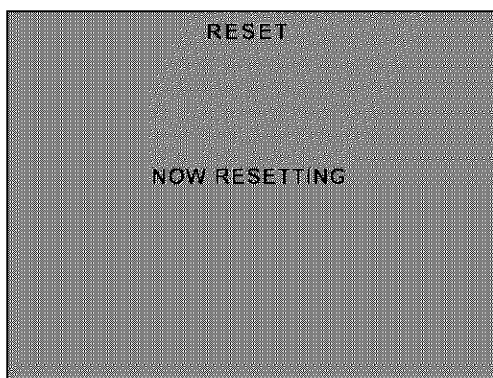
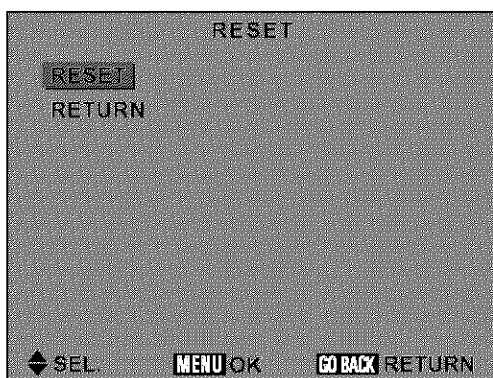
ON – The picture is displayed as a negative image.

OFF – INVERSE is off.

WHITE – The screen turns white.

The factory setting is OFF. To change the INVERSE mode:

1. From the main menu, highlight and select FUNCTION. The FUNCTION menu is displayed.
2. Highlight and select the SCREEN SAVER option.
3. Highlight the INVERSE option.
4. Use the ► button to select your choice.
5. Press the ◀ button to return to the FUNCTION menu options. You can continue making adjustments within the FUNCTION menu, return to the previous menu or press MENU or CLEAR to exit the menu system.



These are the RESET screens. Choose the RESET option if you want to reset ALL options in all menus back to the factory default.

## Resetting to Default Values

The RESET function allows you to reset *all* adjustments to the factory default settings. **Caution: this will reset all adjustments you have made in all menus, including autotuning configuration settings.**

To reset to the factory default settings:

1. From the main menu, highlight and select FUNCTION. The FUNCTION menu is displayed.
2. Highlight the RESET function and press OK.
3. The RESET screen is displayed.
4. Use the ▲ or ▼ button to highlight the RESET option and press OK or MENU. The RESET screen will display the message NOW RESETTING. When the settings are restored to the factory default you are returned to the RESET screen.

When you are done, press GO BACK to return to the FUNCTION menu or press CLEAR to exit the menu system.

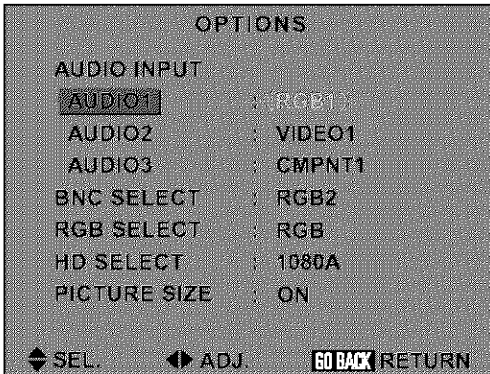


## The Options menu

### Setting the Audio Inputs

The monitor's audio sources are programmable to each of the monitor's video sources. For example, you can program AUDIO1 source to work with the RGB2 video source.

This feature is used if optional speakers are connected and for commercial applications.



This is the OPTIONS menu with the AUDIO1 input option highlighted.

1. From the main menu, highlight and select OPTIONS. The OPTIONS menu is displayed.
2. Highlight one of the audio input options.
3. Use the ► button to scroll through the available video sources. The modes scroll as follows:

► VIDEO1 → VIDEO2 → VIDEO3 → CMPNT1 → RGB1 → RGB2 → RGB3

4. When the desired mode is selected, press the ◀ button to return to the OPTIONS menu items. You can continue making adjustments within the OPTION menu, press GO BACK to return to the previous menu or press MENU or CLEAR to exit the menu system.

The factory defaults are as follows:

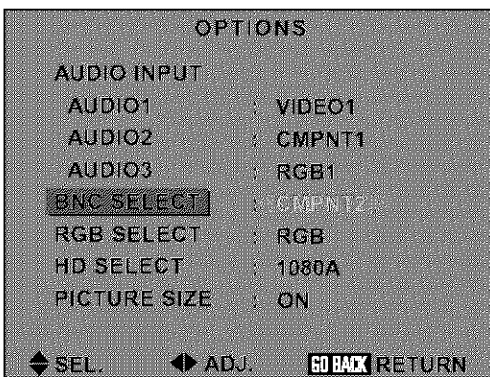
- AUDIO1 - VIDEO1
- AUDIO 2 - CMPNT1
- AUDIO3 - RGB1

If you use the reset option in the FUNCTION menu, the settings will return to the factory default settings listed above.

### Setting the BNC Connectors

If the component you are connecting to the monitor doesn't have composite video jacks, you can set the BNC inputs to act as component video inputs.

1. From the main menu, highlight and select OPTIONS. The OPTIONS menu is displayed.
2. Highlight the BNC SELECT option.
3. Use the ► button to toggle between RGB2 (composite) and CMPNT2. (component).
4. Once you've selected the desired setting, press the ◀ button to return to the OPTIONS menu items or press CLEAR to return to the main menu.



This is the OPTIONS menu with the BNC SELECT option highlighted.



## Setting a Computer Image to the Correct RGB Select Mode

The RGB SELECT function allows you to select the correct viewing mode for the type of computer image you are displaying.

The RGB SELECT function has six modes:

**AUTO** – Automatically selects the most suitable mode for displaying the input signal.

**STILL** – Use this mode to display VESA standard signals (still image from a computer).

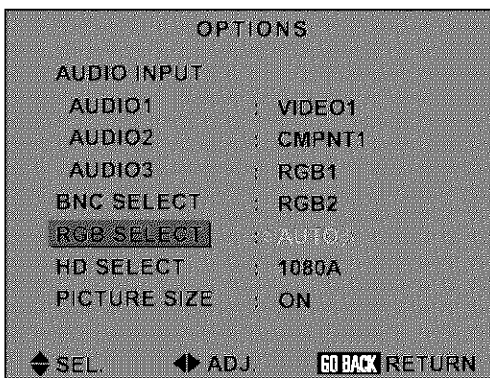
**MOTION** – Use this mode for moving images from a computer. Converts the signal to RGB signal for best viewing.

**WIDE1** – Prevents horizontal compression when the input signal is 852 dot X 480 line signal with a horizontal frequency of 31.7kHz.

**WIDE2** – Prevents horizontal compression when the input signal is 848 dot X 480 line signal with a horizontal frequency of 31.0kHz.

**DTV** – This mode is primarily used to optimize picture quality if you are using a generic-brand DTV receiver which outputs signal at 480P (progressive scan) lines.

To change the RGB SELECT mode:



This is the OPTIONS menu with the RGB SELECT option highlighted.

1. From the main menu, highlight and select the OPTIONS menu. The OPTIONS menu is displayed.
2. Highlight the RGB SELECT option.
3. Use the ► button to scroll through the choices. The settings switch as follows:



4. When the desired mode is selected, press the ◀ button to return to the OPTIONS menu items. You can continue making adjustments within the OPTIONS menu, press GO BACK to return to the previous menu or press CLEAR to exit the menu system.

## Setting the Monitor to the Correct HD Receiver Mode

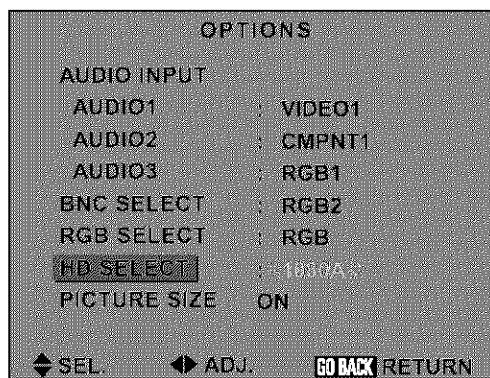
The HD SELECT function allows you to select the correct mode for the monitor to work with your HD receiver. The default setting is 1080A. This is the correct setting for all RCA and PROSCAN HD receivers. If you have another brand of HD receiver, your picture may appear broken or off-center. If so, you need to switch HD SELECT modes.

**1080A** – Use this option for RCA or PROSCAN HD receivers.

**1080B** – Use this option if you have any other brand of HD receiver.

To change the receiver mode:

1. From the main menu, highlight and select OPTIONS. The OPTIONS menu is displayed.
2. Highlight the HD SELECT option.
3. Use the ► button to select the desired mode (1080 A or 1080 B).
4. When the desired number is selected, press the ◀ button to return to the OPTIONS menu items. You can continue making adjustments within the OPTIONS menu, press GO BACK to return to the previous menu or press MENU or CLEAR to exit the menu system.



This is the OPTIONS menu with the HD SELECT option highlighted.

## Setting the Picture Size for RGB Input

The PICTURE SIZE option is used to adjust the picture size when the input signal is RGB. Use this feature for graphic arts and checking photos. In TRUE mode, there is no distortion of the picture. In NORMAL mode, the picture will be scaled vertically but will keep the correct aspect ratio.

ON – When the picture size option is on and in NORMAL mode, the picture is scaled to fill the screen vertically while horizontally keeping the correct aspect ratio. In FULL mode, the horizontal will be scaled to fit the screen.

OFF – When the picture size option is off, TRUE mode displays the picture pixel-for-pixel, exactly the size of the image. If FULL mode, the image is scaled to fit the screen.

*Note: When using a DTC100 HD receiver, the only available mode is FULL. The picture will be scaled to fill the screen.*

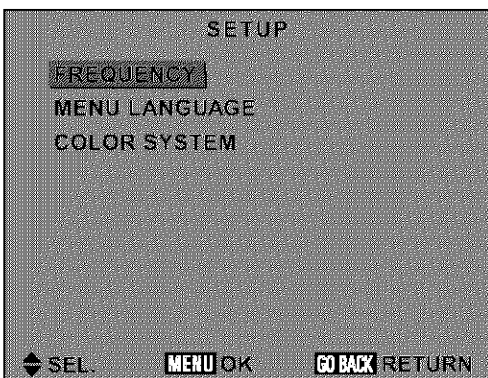
## The Setup Menu

The SETUP menu controls the way your monitor communicates with other components.

### Confirming the Frequencies, Polarities, Mode and Resolution of Input Signals

The FREQUENCY function is used to confirm the frequencies, polarities, mode and resolution of the signals coming from a computer.

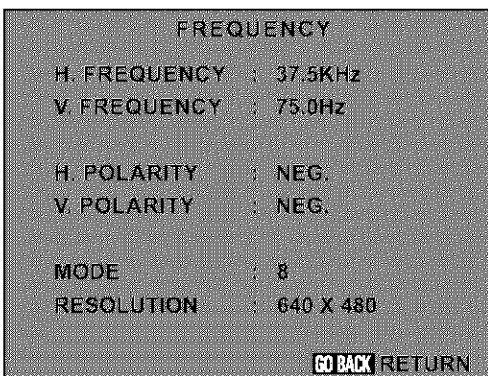
To confirm frequencies, polarities, mode and resolution:



This is the SETUP menu with the FREQUENCY option highlighted.

1. From the main menu, highlight and select the SETUP option. The SETUP menu is displayed.
2. Highlight the FREQUENCY option and press OK.
3. The FREQUENCY screen is displayed.

Press GO BACK to return to the SETUP menu, or press CLEAR to exit the menu system.

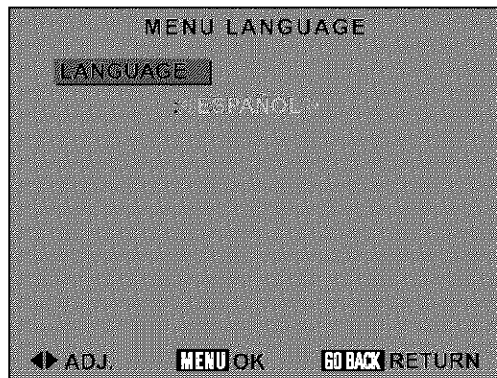


This is the FREQUENCY screen.

# The Menu System

## Selecting the Language for the Menus

The menu display can be set to one of three languages: English, French or Spanish. The default is English. To change the default setting:



This is the MENU LANGUAGE screen with Spanish as the selected language.

1. From the main menu, highlight and select the SETUP option. The SETUP menu is displayed.
2. Highlight the MENU LANGUAGE option. The MENU LANGUAGE screen is displayed.
3. Use the ► button to scroll through the language choices. The settings switch as follows:



4. When the desired language is highlighted, press GO BACK to return to the SETUP menu. You can continue making adjustments within the SETUP menu, press GO BACK to return to the main menu, or press CLEAR to exit the menu system.

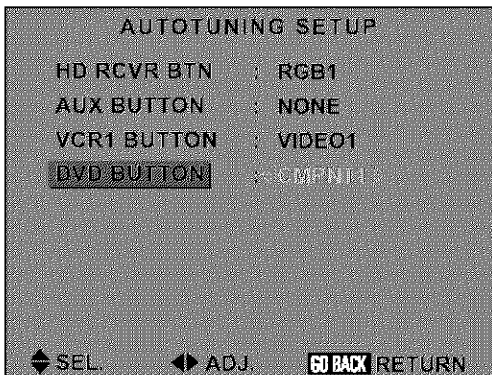
## Setting the Video Signal Format

The COLOR SYSTEM option is used to set the video signal format. Different countries used different formats for video signals. The AUTO option automatically detects the correct video signal and sets the correct format. This setting should not be changed.

## The Autotuning Menu

### Autotuning the Component Buttons on the Remote Control

The AUTOTUNING feature lets you easily program the component buttons on the remote to operate the components hooked up to the monitor. To autotune your components to the buttons on the remote:



This is the AUTOTUNING SETUP menu with the DVD BUTTON option highlighted.

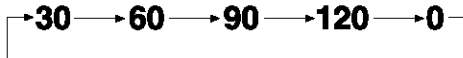
1. From the main menu, highlight and select the AUTOTUNING SETUP option. The AUTOTUNING SETUP menu is displayed.
2. Highlight an option which corresponds to a component which you've connected. For example, if you have a DVD player connected, highlight the DVD BUTTON option.
3. Use the ► button to scroll through the output choices. Select the choice which corresponds to the jacks you used to connect the DVD player. In the example illustration on the left, the DVD button on the remote will operate the component connected to the CMPNT1 jacks (the DVD player).
4. When the desired option is displayed, press the ◀ button to return to the AUTOTUNING menu options. You can continue making adjustments within the OPTIONS menu, press GO BACK to return to the previous menu or press CLEAR to exit the menu system.

## **Sleep Timer**

The sleep timer is a feature that allows you to set the monitor to turn off after a prescribed amount of time. It can be set to turn the power off after 30, 60, 90 or 120 minutes.

### **Setting the Sleep Timer**

1. Press the SLEEP button on the remote to turn on the timer. The default is 30 minutes.
2. Press the SLEEP button again to move to the next time increment. Press the SLEEP button until you get to the desired time.



3. The timer starts when the Sleep display disappears from the screen.

### **To check the Remaining Time:**

1. Once the sleep timer has been set and the menu has turned off, press the SLEEP button once.
2. The remaining time is displayed, then disappears after a few seconds.
3. When five minutes remain, the remaining time appears until it reaches zero.

### **Cancelling the Sleep Timer**

1. Press the SLEEP button twice in a row.
2. The sleep timer is canceled.

*NOTE: After the power is turned off with the sleep timer, a slight current is still supplied to the monitor. If you do not plan to use the system for a long period of time, turn the power off with the remote or on the unit.*

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## Installing the Cinema Screen Monitor

### IMPORTANT

- This device cannot stand on its own. Be sure to use a stand or original mounting unit.
- For correct installation and mounting it is strongly recommended to use a trained, authorized Cinema Screen dealer. Failure to follow correct mounting procedures could result in damage to the equipment or injury to the installer. Product warranty does not cover damage caused by improper installation.

### Attaching mount or optional stand to the Cinema Screen monitor

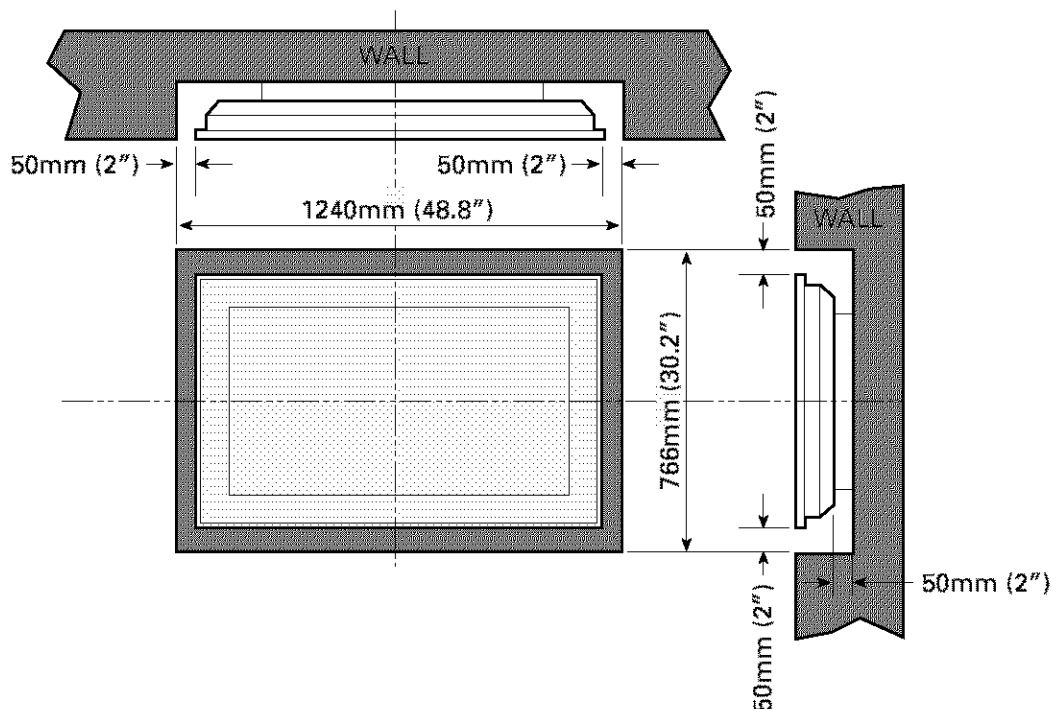
The Cinema Screen monitor can be mounted on the wall using a wall mount or you can attach an optional floor stand. For more information on mounting your Cinema Screen Display, see your Cinema Screen dealer.

If you choose to use the wall mount, it can be attached to the Cinema Screen monitor in one of the following two ways:

- While it is upright.
- While it is laying with the screen face down. If you choose this option, lay the protective sheet that came wrapped around the monitor beneath the screen surface so it doesn't get scratched.

### Ventilation requirements for enclosure mounting

To allow heat to disperse, leave space between surrounding objects as shown on the diagram below when installing.



## External Control

These specifications cover the communications control of the monitor by external control. Connections are made as follows:

1. The connector on the monitor side is the EXTERNAL CONTROL connector (an illustration of the pin assignment is on the right).
2. The connector on the external equipment side is a serial port (RS-232C) connector. See the specifications of the external equipment to be connected for the type of connector and pin assignment.
3. **Wiring: Use a crossed (reverse) cable.**

Wire the cable so that each pair of data lines cross between the monitor and the external control device. The data line pairs are RXD (receive data) and TXD (transmit data), DTR (DTE side ready), and RTS (ready to send) and CTS (clear to send).

### Communication Parameters

(1) Communication System	Asynchronous
(2) Interface	RS-232C
(3) Baud rate	9600 bps
(4) Data length	8 bits
(5) Parity	Odd
(6) Stop bit	1 bit
(7) Communication code	Hex

### Communication Format

#### Command 1 and Command 2

Command 1 and command 2 are numbers used to distinguish each command. In case of ACK, when the lower order 4 bits is FH (as in 3FH and 7 FH), this indicates that the commands and data of the supported equipment have been received. When the lower order of 4 bits is BH (as in 3 BH and 7 BH), this

indicates that unsupported commands and data have been received.

#### Unit ID 1 and Unit ID 2

Unit ID 1 and Unit ID 2 are used to identify the equipment that is to be connected. 60H is used for the monitor and 80H is used for the external control equipment (i.e., a personal computer).

Unit ID 1 indicates the equipment is sending the signal.

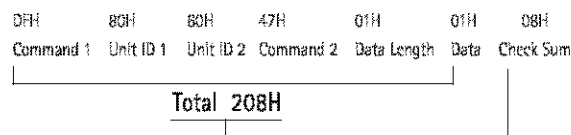
Unit ID 2 indicates the equipment is receiving the signal.

#### Check Sum (CKS) Error Processing, and ACK

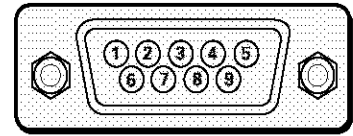
The check sum and RS-232C odd parity are used together for a check of the received data. The check sum is the lower order 8 bits of one frame or sent or received data comprising the sum total of Command 1, Unit ID 1 and 2, Data Length, and Data.

#### Error Processing

- If the communication interval is vacant for more than 4 ms, a received Command 1 will be recognized. Then, if meaningful data cannot be recognized, the data will not be recognized as valid.
- An ACK will not be returned unless the receive data error, the check sum error and the receive data are all taken in.



### Type of connector: D-sub 9 Pin Male



Pin No.	PIN NAME
1	No Connection
2	RXD (Receive data)
3	TXD (Transmit data)
4	DTR (DTE side ready)
5	GND
6	DSR (DCE side ready)
7	RTS (Ready to send)
8	CTS (Clear to send)
9	No connection

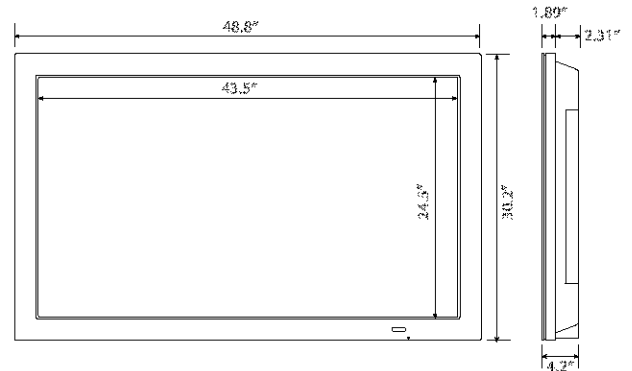
## Command Reference List

	CMD	CMD2	LEN
01. Power ON	9FH	4EH	00H
02. Power OFF	9FH	4FH	00H
03. Input Switch Change	DFH	47H	01H
04. VOLUME Gain Data	DFH	7FH	03H
05. AUDIO Mute On	9FH	3EH	00H
06. AUDIO Mute Off	9FH	3FH	00H
07. CONTRAST Gain Data	DFH	7FH	03H
08. BRIGHT Gain Data	DFH	7FH	03H
09. SHARPNESS Gain Data	DFH	7FH	03H
10. Color Gain Data	DFH	7FH	03H
11. Tint Gain Data	DFH	7FH	03H
12. PICTURE MODE Select	DFH	0AH	01H
13. COLOR TEMP SELECT	DFH	00H	01H
14. RED Gain Data	DFH	7FH	04H
15. GREEN Gain Data	DFH	7FH	04H
16. Blue Gain Data	DFH	7FH	04H
17. NR MODE Set	DFH	C0H	01H
18. Bass Gain Data	DFH	7FH	03H
19. TREBLE Gain Data	DFH	7FH	03H
20. BALANCE Gain Data	DFH	7FH	03H
21. SCREEN MODE Select	DFH	51H	01H
22. V. POSITION Gain Data	DFH	7FH	03H
23. V-HEIGHT Gain Data	DFH	7FH	03H
24. V-HEIGHT Gain Data	DFH	7FH	03H
25. H-WIDTH Gain Data	DFH	7FH	03H
26. AUTO PICTURE Select	DFH	7FH	03H
27. PHASE Gain Data	DFH	7FH	03H
28. CLOCK Gain Data	DFH	7FH	03H
29. OSM Select	DFH	58H	01H
30. OSM ADJ. Gain Data	DFH	1AH	02H
31. POWER MGT Select	DFH	1AH	02H
32. GRAY LEVEL Set	DFH	C6H	01H
33. CINEMA MODE Set	DFH	C1H	01H
34. RGB3 ADJ. Select	DFH	1AH	02H
35. LONG LIFE Set	DFH	6BH	03H
36. INVERSE Set	DFH	C7H	03H
37. SCREEN WIPER Set	DFH	C8H	04H
38. RSET	1FH	54H	00H
39. Audio Select Set	DFH	70H	02H
40. BNC SELECT	DFH	8CH	01H
41. RGB Select	DFH	8BH	01H
42. HD Select	DFH	8AH	01H
43. PICTUER SIZE Select	DFH	2AH	01H
44. LANGUAGE Select	DFH	5BH	01H
45. COLOR SYSTEM Select	DFH	5CH	01H
46. Multi Screen Select	DFH	07H	01H
47. FREQUENCY Request	1FH	26H	00H
48. Input MODE Request	1FH	41H	00H
49. VIDEO ADJ. Request	1FH	45H	00H
50. Audio Select Request	1FH	6FH	00H
51. Failure Mode Request	1FH	3FH	00H
52. MODEL NAME Request	1FH	17H	00H



**Specifications**

Product Name	PHD50400 Cinema Screen Monitor
Screen Size	43.5"(H) X 24.5"(V) inches 1106(H) X 622(V)mm diagonal 50"
Aspect Ratio	16 : 9
Resolution	1365(H) X 768(V) pixels
Color Reproduction	256 levels, 16,770,000 colors
Input Signals	RGB, NTSC (3.58 4.43), PAL (B, G, M, N), PAL60, SECAM, HD*, DVD*, DTV*
RGB Input terminals	
RGB 1	mini D-sub 15-pin
RGB 2	BNC (R, G, B, H/CS, V) X1
RGB 3	DVI-I 29-pin X 1**
Video Input terminals	
Video 1	RCA-pin X 1
Video 2	BNC X 1
Video 3	S-Video: DIN 4-pin X 1
DVD/HD/DTV	RCA-pin (Y, P <sub>s</sub> [C <sub>s</sub> ], P <sub>a</sub> [C <sub>a</sub> ])
Audio	Stereo RCA X 3
External Control	D-sub 9-pin X1 (RS-232C)
Sound Output	7W+7W at 6 ohm
Power Supply	AC120V 50/60Hz
Current Rating	5.9A (maximum)
Power Consumption	595W (typical)
Dimensions (WxDxD)	1240 X 766 X 107mm (w/o stand) 48.8 X 30.2 X 4.2 inches (w/o stand) 1240 X 826 X 400mm (with stand)
Net Weight	44.5 Kg/98 lbs. (w/o stand)
Environmental	
Considerations	0°C to 35°C/32°F to 95°F
Operating temperature	20 to 80%
Humidity	0 to 1900m/0 to 6230 ft.
Altitude	-10°C to 50°C/14°F to 122°F
Storage temperature	10 to 90%
Humidity	Power on/off, Input source select
Front Panel User Controls	Volume up/down/OSD control
Other Features	Power Management, plug and play (DDCI, DDC2b, RGB3: DDC2b only)
Accessories	Remote control with two AA batteries, RGB cable (Mini D-sub 15 pin to Mini D-sub 15-pin connector), power cord, safety metal fitting, screw for safety metal fitting, User's Manual
Regulations	UL approved (UL 1950, CSA 950) DOC Canada requirements Meets FCC class B requirements for home application



The features and specifications may be subject to change without notice.

* HD/DVD/DTV input signals supported on this system	
480P (60 Hz)	480I (60 Hz)
525P (60 Hz)	525I (60 Hz)
625P (60 Hz)	625I (60 Hz)
720P (60 Hz)	720I (60 Hz)
	1080I (60 Hz)

## Troubleshooting

Before requesting service, check the adjustments, operations, etc.

Symptom	Possible Problem	Solutions
Picture is disturbed. Sound is noisy. Remote control unit operates erroneously.	<ul style="list-style-type: none"> <li>Is a connected component set directly in front or at the side of the monitor?</li> </ul>	<ul style="list-style-type: none"> <li>Leave some space between the display and connected components.</li> </ul>
The remote control does not work.	<ul style="list-style-type: none"> <li>Remote control batteries may be dead.</li> <li>Remote may be in wrong mode.</li> </ul>	<ul style="list-style-type: none"> <li>Replace both batteries with new ones.</li> <li>Press component button for desired component.</li> </ul>
Monitor's power does not turn on when the remote control's power button is pressed.	<ul style="list-style-type: none"> <li>Is the monitor's power cord plugged into a power outlet?</li> </ul>	<ul style="list-style-type: none"> <li>Plug the monitor's power cord into a power outlet.</li> </ul>
	<ul style="list-style-type: none"> <li>Are all the monitor's indicators off?</li> </ul>	<ul style="list-style-type: none"> <li>Press the power button on the monitor to turn on the power.</li> </ul>
Monitor does not operate when the remote control's buttons are pressed.	<ul style="list-style-type: none"> <li>Is the remote control pointed at the monitor, or is there an obstacle between the remote control and the monitor?</li> </ul>	<ul style="list-style-type: none"> <li>Point the remote control at the monitor's remote control sensor when pressing buttons, or remove the obstacle.</li> </ul>
	<ul style="list-style-type: none"> <li>Is direct sunlight or strong artificial light shining on the monitor's remote control sensor?</li> </ul>	<ul style="list-style-type: none"> <li>Eliminate the light by closing curtains, pointing the light in a different direction, etc.</li> </ul>
	<ul style="list-style-type: none"> <li>Remote control batteries may be dead.</li> </ul>	<ul style="list-style-type: none"> <li>Replace both batteries with new ones.</li> </ul>
No sound or picture is produced.	<ul style="list-style-type: none"> <li>Is the monitor's power cord plugged into a power outlet?</li> </ul>	<ul style="list-style-type: none"> <li>Plug the monitor's power cord into a power outlet.</li> </ul>
	<ul style="list-style-type: none"> <li>Is the source video connected and on?</li> </ul>	<ul style="list-style-type: none"> <li>Make sure source video (VCR, DVD, DTC) is connected and turned on.</li> </ul>
Picture appears but no sound is produced.	<ul style="list-style-type: none"> <li>Is the volume set at the minimum?</li> </ul>	<ul style="list-style-type: none"> <li>Increase the volume.</li> </ul>
	<ul style="list-style-type: none"> <li>Is the mute mode set?</li> </ul>	<ul style="list-style-type: none"> <li>Press the remote control's mute button.</li> </ul>
	<ul style="list-style-type: none"> <li>Are the speakers properly connected?</li> </ul>	<ul style="list-style-type: none"> <li>Connect the speakers properly.</li> </ul>
Tint is poor or colors are weak.	<ul style="list-style-type: none"> <li>Are the tint and colors properly adjusted?</li> </ul>	<ul style="list-style-type: none"> <li>Adjust the tint and color (under PICTURE).</li> <li>Return to factory reset.</li> </ul>
Nothing appears on screen.	<ul style="list-style-type: none"> <li>Is the computer's power turned on?</li> </ul>	<ul style="list-style-type: none"> <li>Turn on the computer's power.</li> </ul>
	<ul style="list-style-type: none"> <li>Is a video source connected?</li> </ul>	<ul style="list-style-type: none"> <li>Connect video source to the monitor.</li> </ul>
	<ul style="list-style-type: none"> <li>Is the power manager function in the STANDBY or OFF mode?</li> </ul>	<ul style="list-style-type: none"> <li>Operate the computer (move the mouse, etc.).</li> </ul>
Part of picture is cut off or picture is not centered.	<ul style="list-style-type: none"> <li>Is the picture position adjusted correctly?</li> </ul>	<ul style="list-style-type: none"> <li>Adjust the picture from the SCREEN menu.</li> </ul>
Image is too large or too small.	<ul style="list-style-type: none"> <li>Is the screen size adjusted correctly?</li> </ul>	<ul style="list-style-type: none"> <li>Press the WIDE/AUTO WIDE button on the remote control and adjust properly.</li> </ul>
Picture is unstable.	<ul style="list-style-type: none"> <li>Is the computer set at the correct resolution?</li> </ul>	<ul style="list-style-type: none"> <li>Set to the proper resolution.</li> </ul>
	<ul style="list-style-type: none"> <li>Is the HD receiver set to the correct mode?</li> </ul>	<ul style="list-style-type: none"> <li>Set HD receiver to the correct mode .</li> </ul>

**Supported Resolution**

- When screen mode is NORMAL, each signal is converted to 1024 dot X 768 line signal (except for \*3).
- When screen mode is TRUE, the picture is displayed in its original resolution.
- When screen mode is FULL, each signal is converted to 1364 dot X 768 line signal (except for \*2).

*Notes:*

*With Digital inputs some signals are not accepted.*

*The sync may not be disturbed when non-standard signals other than the previously mentioned are input.*

*When connecting a composite sync signal, use the HD terminal.*

**Computer Input Signals Supported by this System**

Model Signal Type	Dots X lines	Vertical frequency (Hz)	Horizontal frequency (kHz)	Sync Polarity		Presence		Screen mode			RGB select <sup>65</sup>	DVI
				Horizontal	Vertical	Horizontal	Vertical	NORMAL [4:3]	TRUE	FULL (16:9)		
*IBM PC/AT compatible computers	640 X 400	70.1	31.5	NEG	NEG	YES	YES	YES <sup>*2</sup>	YES	YES	--	NO
	640 X 480	59.9	31.5	NEG	NEG	YES	YES	YES	YES	YES	STILL	YES
		72.8	37.9	NEG	NEG	YES	YES	YES	YES	YES	--	YES
		75.0	37.5	NEG	NEG	YES	YES	YES	YES	YES	STILL	YES
		85.0	43.3	NEG	NEG	YES	YES	YES	YES	YES	--	YES
		100.4	51.1	NEG	NEG	YES	YES	YES	YES	YES	--	YES
		120.4	61.3	NEG	NEG	YES	YES	YES	YES	YES	--	YES
	848 X 480	60.0	31.0	POS	POS	YES		--	YES	YES	WIDE2	YES
	852 X 480*1	60.0	31.7	NEG	NEG	YES	YES	--	YES	YES	WIDE1	YES
	800 X 600	56.3	35.2	POS	POS	YES		YES	YES	YES	STILL	YES
		60.3	37.9	POS	POS	YES	YES	YES	YES	YES	STILL	YES
		72.2	48.1	POS	POS	YES		YES	YES	YES	--	YES
		75.0	46.9	POS	POS	YES	YES	YES	YES	YES	--	YES
		85.1	53.7	POS	POS	YES		YES	YES	YES	--	YES
		99.8	63.0	POS	POS	YES	YES	YES	YES	YES	--	YES
	120.0	75.7	POS	POS	YES		YES	YES	YES	--	YES	
	1024 X 768	60.0	48.4	NEG	NEG	YES	YES	YES <sup>*3</sup>	--	YES	STILL	YES
		70.1	56.5	NEG	NEG	YES		YES <sup>*3</sup>	--	YES	--	YES
		75.0	60.0	POS	POS	YES	YES	YES <sup>*3</sup>	--	YES	STILL	YES
		85.0	68.7	POS	POS	YES		YES <sup>*3</sup>	--	YES	--	YES
		100.6	80.5	NEG	NEG	YES	YES	YES <sup>*3</sup>	--	YES	--	NO
	1152 X 864	75.0	67.5	POS	POS	YES		YES	--	YES	STILL	YES
	1280 X 768	56.2	45.1	POS	POS	YES	YES	--	--	YES	WIDE1	NO
	1360 X 765	60.0	47.7	POS	POS	YES		--	--	YES <sup>*3</sup>	WIDE1	NO
	1360 X 768	60.0	47.7	POS	POS	YES	YES	--	--	YES <sup>*3</sup>	WIDE1	NO
	1376 X 768	59.9	48.3	NEG	POS	YES		--	--	YES	WIDE2	YES
	1280 X 1024	60.0	64.0	POS	POS	YES	YES	YES <sup>*4</sup>	--	YES	STILL	YES
	1600 X 1200	75.0	80.0	POS	POS	YES		YES <sup>*4</sup>	--	YES	--	NO
		85.0	91.1	POS	POS	YES	YES	YES <sup>*4</sup>	--	YES	--	NO
		60.0	75.0	POS	POS	YES		YES	--	YES	--	NO
65.0		81.3	POS	POS	YES	YES	YES	--	YES	--	NO	
70.0		87.5	POS	POS	YES		YES	--	YES	--	NO	
75.0	93.8	POS	POS	YES	YES	YES	--	YES	--	NO		
*Apple Macintosh*6	640 X 480	66.7	35.0	Sync on G	Sync on G	--	--	YES	YES	YES	--	NO
	832 X 624	74.6	49.7	Sync on G	Sync on G	--	--	YES	YES	YES	--	NO
	1024 X 768	74.9	60.2	Sync on G	Sync on G	--	--	YES <sup>*3</sup>	--	YES	WIDE1	NO
	1152 X 870	75.1	68.7	Sync on G	Sync on G	--	--	YES	--	YES	WIDE1	NO
Work Station (EWS4800)	1280 X 1024	60.0	64.6	NEG	NEG	YES	YES	YES <sup>*4</sup>	--	YES	--	YES
		71.2	75.1	NEG	NEG	YES		YES <sup>*4</sup>	--	YES	--	NO
Work Station (HP)	1280 X 1024	72.0	78.1	--	--	--	--	YES <sup>*4</sup>	--	YES	--	NO
Work Station (SUN)	1152 X 900	66.0	61.8	C Sync	C Sync	--	--	YES	--	YES	--	NO
		76.0	71.1	C Sync	C Sync	--	--	YES	--	YES	--	NO
	1280 X 1024	76.1	81.1	C Sync	C Sync	--	--	YES <sup>*4</sup>	--	YES	--	NO
Work Station (SGI)	1024 X 768	60.0	49.7	--	--	--	--	YES <sup>*3</sup>	--	YES	--	YES
	1280 X 1024	60.0	63.9	--	--	--	--	YES <sup>*4</sup>	--	YES	--	YES
IDC-3000G												
PAL 625P	768 X 576	50.0	31.4	NEG	NEG	YES	YES	YES <sup>*7</sup>	--	YES <sup>*7</sup>	--	NO
		59.9	31.5	NEG	NEG	YES	YES	YES <sup>*7</sup>	--	YES <sup>*7</sup>	MOTION	NO

- \*1 Only when using a graphic accelerator board that is capable of displaying 852 X 480.
- \*2 This signal is converted to a 1024 dot X 640 line signal.
- \*3 The picture is displayed in the original resolution.
- \*4 The aspect ratio is 5:4. This signal is converted to a 960 dot X by 768 line signal.
- \*5 Normally the RGB SELECT mode is set automatically. If the picture is not displayed properly, set the mode for the input signals listed in the table.
- \*6 To connect the monitor to a Macintosh computer, use a D-sub 15-pin monitor adaptor with your computer's video port. If your computer has a D-sub 15-pin connector, use an RGB cable.
- \*7 Other Screen modes are also available.

**Notes:**

- When the input signals comply with the resolution listed in the table, the position and size of the picture may need to be adjusted.
- When a 1280 X 1024 line signal or a 1600 dot X 1200 line signal is input, the picture will be compressed.
- This monitor has a resolution of 1365 dot X 768 line. It is recommended that the input signal be XGA, wide XGA, or equivalent.
- Some signals are not accepted with digital input.
- The sync may be disturbed when a nonstandard signal other than those previously mentioned is input.
- If you are connecting a composite sync signal, use the HD terminal.

\* IBM is a registered trademark of International Business Machines Corporation of the United States.

\* Macintosh is a registered trademark of Apple Computer, Inc. of the United States.

## RCA Plasma Monitor Limited Warranty

**What your warranty covers:**

- Defects in materials or workmanship.

**For how long after your purchase:**

- One year from date of purchase for labor.
- One year from date of purchase for parts.

The warranty period for rental units begins with the first rental or 45 days from date of shipment to the rental firm, whichever comes first.

**What we will do:**

Pay an Authorized Service Center the labor charges to repair your unit.

Pay an Authorized Service Center for the new, or at our option, refurbished replacement parts required to repair your unit.

**How you get service:**

- Call 1-800-433-8974 and have your unit's date of purchase and model/serial number ready.
- A representative will troubleshoot your problem over the phone.
- If the representative determines that you should receive service, they will provide you with the name(s) of the Authorized Service Center in your area.
- Contact the Service Center and arrange for home or pick up, repair, and return service, provided that your unit is located within the geographic territory covered by an Authorized Service Center. If not, you must take your unit to the Service Center location at your own expense, or pay for the cost the Service Center may charge to transport your unit to and from your home.
- Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the product is within the warranty period must be presented to obtain warranty service. For rental firms, proof of first rental is also required.

## Other Information

### What your warranty does not cover:

- Customer instruction. (Your Owner's Manual describes how to install, adjust, and operate your unit. Any additional information should be obtained from your dealer.)
- Installation and related adjustments.
- Damage resulting from non-approved installation methods.
- Signal reception problems not caused by your unit.
- Damage from misuse or neglect.
- Batteries.
- A television that has been modified or incorporated into other products.
- A unit purchased or serviced outside the U.S.A.
- Acts of nature, such as but not limited to lightning damage.

### Product Registration:

- Please complete and mail the Product Registration Card packed with your unit. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

### Limitation of Warranty:

- THE WARRANTY STATED ABOVE IS THE ONLY WARRANTY APPLICABLE TO THIS PRODUCT. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED (INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) ARE HEREBY DISCLAIMED. NO VERBAL OR WRITTEN INFORMATION GIVEN BY THOMSON MULTIMEDIA INC., ITS AGENTS OR EMPLOYEES SHALL CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS WARRANTY.
- REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. THOMSON MULTIMEDIA INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. THIS DISCLAIMER OF WARRANTIES AND LIMITED WARRANTY ARE GOVERNED BY THE LAWS OF THE STATE OF INDIANA. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

### How State Law relates to warranty:

- Some states do not allow the exclusion nor limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.
- This warranty gives you specific legal rights, and you also may have other rights that vary from state to state.

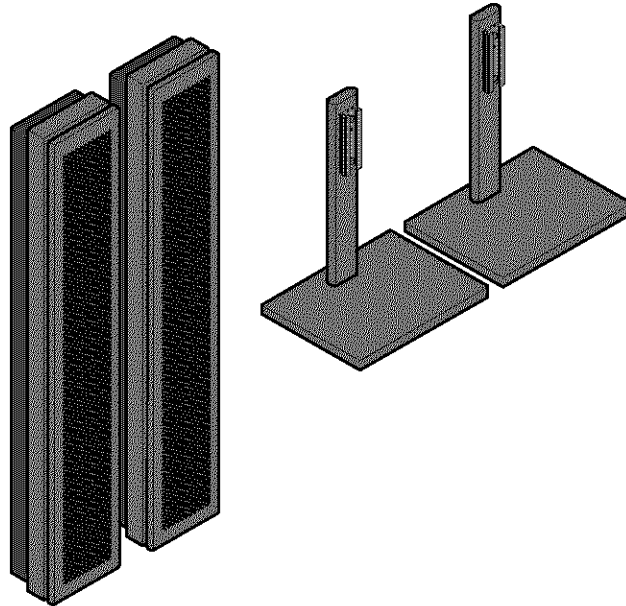
### If you purchased your unit outside the United States:

- This warranty does not apply. Contact your dealer for warranty information.

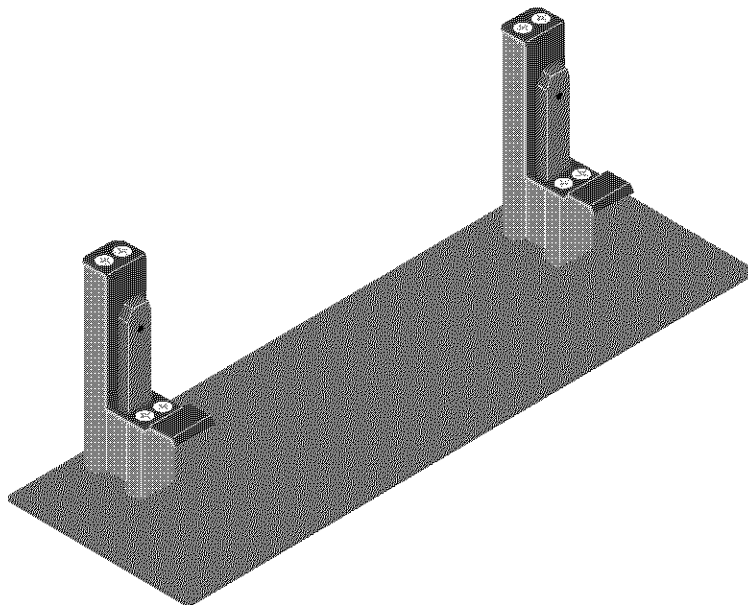
**Service calls which do not involve defective materials or workmanship are not covered by this warranty. Costs of such service calls are the sole responsibility of the purchaser.**

# Accessories

The accessories listed below are available from your Cinema Screen Dealer. See your dealer for prices.



**Attachable Speakers – SPK50**



**Monitor Stand – PLB50**

*visit [www.rca.com](http://www.rca.com)*

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Please do not send any products to the Indianapolis address listed in this manual or on the carton. This will only add delays in service for your product.

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