

# PlasmaView™

HIGH DEFINITION PLASMA DISPLAYS  
Models VP-5000 and VP-5000a



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# THREE YEAR LIMITED WARRANTY

## For Plasma Displays

Congratulations on your purchase of a Vidikron video product and welcome to the Vidikron family! With proper installation, setup and care, you should enjoy many years of unparalleled video performance.

This is a LIMITED WARRANTY as defined in the Magnuson-Moss Warranty Act. Please read it carefully and retain it with your other important documents.

### **WHAT IS COVERED UNDER THE TERMS OF THIS LIMITED WARRANTY:**

**SERVICE LABOR:** Vidikron will pay for service labor by a Vidikron Authorized Service Center when needed as a result of a manufacturing defect for a period of three (3) years from the effective date of delivery to the end user (excluding the plasma glass panel).

**PARTS** (not including plasma glass panel): Vidikron will provide new or rebuilt replacement parts for the parts that fail due to defects in materials or workmanship for a period of three (3) years from the effective date of delivery to the end user. Such replacement parts are then subsequently warranted for the remaining portion (if any) of the original warranty period.

**PLASMA GLASS PANEL:** Vidikron will pay for service labor by a Vidikron Authorized Service Center when needed as a result of a manufacturing defect for a period of one (1) year from the effective date of delivery to the end user. In addition, Vidikron will provide new or rebuilt replacement parts for the parts that fail due to defects in materials or workmanship for a period of one (1) year from the effective date of delivery to the end user. Such replacement parts are then subsequently warranted for the remaining portion (if any) of the original warranty period.

### **WHAT IS NOT COVERED UNDER THE TERMS OF THIS LIMITED WARRANTY:**

Image burn-in on plasma display panels is specifically excluded from coverage under this Limited Warranty. Image burn-in is the result of misuse of the product and therefore cannot be repaired under the terms of this Limited Warranty.

Normal viewing material such as television/satellite broadcasts, videotape or DVDs (not put into pause for extended periods of time) will not cause damage to your display under normal conditions. Many DVD players are also equipped with screen savers for this reason.

**TO AVOID IMAGE RETENTION (Burn-in):** Please ensure that still images are left on your plasma display panel for no more than a few minutes. Also ensure that images displayed in the 4:3 aspect ratio mode (black or gray stripes, but no picture information is present on the left and right edges of the screen) are used as infrequently as possible. This will prevent permanent image burns on your plasma display panel, which can be seen permanently under certain conditions once burn-in has occurred.

The types of images to avoid include video games, still images and computer screens with stationary tool bars and icons. (This is why computers are equipped with screen savers – to prevent still images from burning into the monitor's phosphors after being displayed continuously for an extended period of time).

This Limited Warranty only covers failure due to defects in materials and workmanship that occur during normal use and does not cover normal maintenance. This Limited Warranty does not cover cabinets or any appearance items; failure resulting from accident, misuse, abuse, neglect, mishandling, misapplication, faulty or improper installation or setup adjustments; improper maintenance, alteration, improper use of any input signal; damage due to lightning or power line surges, spikes and brownouts; damage that occurs during shipping or transit; or damage that is attributed to acts of God. In the case of remote control units, damage resulting from leaking, old, damaged or improper batteries is also excluded from coverage under this Limited Warranty.

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CAUTION: THIS LIMITED WARRANTY ONLY COVERS VIDIKRON PRODUCTS PURCHASED FROM VIDIKRON AUTHORIZED DEALERS. ALL OTHER PRODUCTS ARE SPECIFICALLY EXCLUDED FROM COVERAGE UNDER THIS WARRANTY. MOREOVER, DAMAGE RESULTING DIRECTLY OR INDIRECTLY FROM IMPROPER INSTALLATION OR SETUP IS SPECIFICALLY EXCLUDED FROM COVERAGE UNDER THIS LIMITED WARRANTY. IT IS IMPERATIVE THAT INSTALLATION AND SETUP WORK BE PERFORMED ONLY BY AN AUTHORIZED VIDIKRON DEALER TO PROTECT YOUR RIGHTS UNDER THIS WARRANTY. THIS WILL ALSO ENSURE THAT YOU ENJOY THE FINE PERFORMANCE OF WHICH YOUR VIDIKRON PRODUCT IS CAPABLE WHEN INSTALLED AND CALIBRATED BY VIDIKRON AUTHORIZED PERSONNEL.

#### **RIGHTS, LIMITS AND EXCLUSIONS:**

Vidikron limits its obligations under any implied warranties under state laws to a period not to exceed the warranty period. There are no express warranties. Vidikron also excludes any obligation on its part for incidental or consequential damages related to the failure of this product to function properly. Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages. So the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

#### **EFFECTIVE WARRANTY DATE:**

This warranty begins on the effective date of delivery to the end user. For your convenience, keep the original bill of sale as evidence of the purchase date.

#### **IMPORTANT – WARRANTY REGISTRATION:**

Please fill out and mail your warranty registration card. It is imperative that Vidikron knows how to reach you promptly if we should discover a safety problem or product update for which you must be notified.

#### **CONTACT A VIDIKRON AUTHORIZED SERVICE CENTER TO OBTAIN SERVICE:**

Repairs made under the terms of this Limited Warranty covering your Vidikron video product will be performed at the location of the product, during usual working hours, providing location of product is within normal operating distance from a Vidikron Authorized Service Center. In some instances it may be necessary for the product to be returned to the Vidikron factory for repairs. If, solely in Vidikron's judgment, location of product to be repaired is beyond normal operating distance of the closest Vidikron Authorized Service Center, or the repair requires the unit be returned to the Vidikron factory, it is the owner's responsibility to arrange for shipment of the product for repair. These arrangements must be made through the selling Vidikron Dealer. If this is not possible, contact Vidikron directly for a Return Authorization number and shipping instructions. Vidikron will return product transportation prepaid in the United States, unless no product defect is discovered. In that instance, shipping costs will be the responsibility of the owner.

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Vidikron products are manufactured under one or more of the following patents: US. Patent 6755540 and Other Patents Pending.

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**ADDITIONAL INFORMATION:**

To locate the name and address of the nearest Vidikron Authorized Service Center, or for additional information about this Limited Warranty, please call or write:

**VIDIKRON**  
**Attn: Customer Service Department**  
**2900 Faber Street**  
**Union City, CA 94587**  
**Ph: (510) 324-5900**  
**Fax: (510) 324-5905**  
**Toll Free: (888) 4VIDIKRON**

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**VIDIKRON PRODUCT INFORMATION**  
**RETAIN THIS INFORMATION FOR YOUR RECORDS**

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Model Purchased

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Date

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Serial Number

---

Vidikron Authorized Dealer Name

---

Address

---

City

---

State/Province

---

Postal Code

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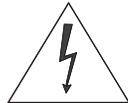
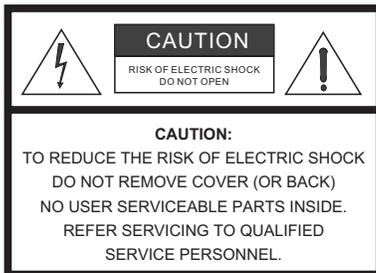
Phone

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Fax

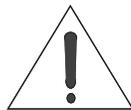
# Safety Precautions

Thank you for your purchase of this quality Vidikron video product! It has been designed to provide you with the quality of video that is expected in a home theater. For the best performance, please read this manual carefully as it is your guide through the menus and operation.



## WARNING

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## CAUTION

To turn off main power, be sure to remove the plugs from power outlets. The power outlet socket should be installed as near to the equipment as possible, and should be easily accessible.

## WARNING

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

## WARNING

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

## DOC Compliance Notice

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

Please read and follow the safety precautions listed below to ensure the equipment is free from damage, and to ensure that no injury will occur as a result of improper use.

- Do not insert any object, especially metal or liquids, into the plasma display.
- Do not place any objects containing water or any other liquid on top of the plasma display.
- Do not place the units in direct sunlight, near heaters or in extremely dusty or humid locations.
- Do not install this system outdoors or otherwise exposed to the elements.
- Do not place heavy objects on top of the plasma display.
- If the power cord is damaged or frayed in any way, electrical shock and/or fire may result. Do not place objects on the power cord, and keep the cord away from heat-emitting devices. Should the power cord become damaged in any way, please contact your Vidikron Dealer for a replacement cord.
- Do not remove the cover of the plasma display for any reason. If any problems arise with the unit, please contact a Vidikron Dealer or Vidikron for service. Removing the covers will void the warranty.

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**Notes:**

# Introduction

This Owner's Manual describes how to install, set up and operate the Vidikron PlasmaView High-Definition Plasma Display (Model VP-5000 or VP-5000a). Throughout this manual, the Vidikron PlasmaView High-Definition Plasma Display is referred to simply as the "PlasmaView." Except where noted, the information in this manual applies to both PlasmaView models.

Vidikron has prepared this manual to help home theater installers and end users get the most out of the PlasmaView.

Vidikron has made every effort to ensure that this manual is accurate as of the date it was printed. However, because of ongoing product improvements and customer feedback, it may require updating from time to time. You can always find the latest version of this and other Vidikron product manuals on-line, at [www.Vidikron.com](http://www.Vidikron.com).

Vidikron welcomes your comments about this manual. Send them to [info@Vidikron.com](mailto:info@Vidikron.com).

**Text Conventions:** The following conventions are used in this manual, in order to clarify the information and instructions provided:

- Remote control button identifiers are set in upper-case bold type; for example, "Press **EXIT** to return to the previous menu."
- Computer input (commands you type) and output (responses that appear on-screen) is shown in monospace (fixed-width) type; for example: "To change the aspect ratio to 16:9, send the command `DF 80 60 51 01 05 16.`"
- All keys with functional names are initial-capped, set in bold type and enclosed in angle brackets. These keys are the following: **<Enter>**, **<Spacebar>**, **<Control>**, **<Esc>** and **<Tab>**.
- **<Enter>** indicates that you may press either the RETURN or ENTER key on your keyboard if it has both keys.

In addition to these conventions, underlining, boldface and/or italics are occasionally used to highlight important information, as in this example:



*To prevent image retention (burn-in) on your display, **ALWAYS** use a screen saver and set it to the shortest possible time.*

## 1.1 About This Manual

### ◀ **Target Audience**

### ◀ **If You Have Comments About This Manual...**

### ◀ **Textual and Graphic Conventions**

**Graphic Conventions:** These symbols appear in numerous places throughout the manual, to emphasize points that you must keep in mind to avoid problems with your equipment or injury:



**Tip**

*TIPS highlight time-saving short cuts and helpful guidelines for using certain features.*



**Note**

*NOTES emphasize text with unusual importance or special significance. They also provide supplemental information.*



**Caution**

*CAUTIONS alert users that a given action or omitted action can degrade performance or cause a malfunction.*



**WARNING**

*WARNINGS appear when a given action or omitted action can result in damage to the equipment, or possible non-fatal injury to the user.*



**DANGER!**

*DANGER appears when a given action can cause severe injury or death.*

## 1.2 Using This Manual

Use the following table to locate the specific information you need in this manual.

<b>If you need...</b>	<b>... Turn to page:</b>
Information about obtaining service	iv
General information about the PlasmaView High-Definition Plasma Display	3
Installation instructions	11
First-time configuration instructions	23
Advanced configuration instructions	35
Troubleshooting tips	43
Specifications for the PlasmaView High-Definition Plasma Display	55

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Vidikron's PlasmaView High-Definition Plasma Display is perfect for high-definition viewing. Advanced engineering and design features and state-of-the-art performance make the PlasmaView the ideal choice for those wanting true high definition capability with a resolution of up to 1365 x 768.

The PlasmaView handles all HDTV signals with ease, in addition to standard television. A 16:9 native resolution display panel with advanced engineering innovations gives you the brightest, clearest images possible. Vidikron's superior video processing with 3:2 film detection circuitry is built into the monitor and provides exceptional detail and artifact-free video enhancement, elevating even standard NTSC material to near-HD quality.

Multiple aspect ratio control includes Vidikron's IntelliWide™ mode, offering the ability to view standard video formats in widescreen without loss of image quality. IR and discrete RS-232 controls facilitate glitch-free custom installation, while Dynamic Pixel Protection™ helps to protect the plasma panel from stationary image burn.

A generous number of inputs and the sleekest styling around make this flat-panel display monitor a great value and the ideal choice for discerning viewers.

For high-altitude installations, Vidikron also offers the VP-5000a with industry-leading high-altitude compliance to over 9000 feet (2,740 meters) mean sea level (MSL). The VP-5000a shares all other features and specifications with the VP-5000.

The PlasmaView offers these key features and benefits:

- 16:9 Native Resolution: 1365 x 768
- Screen Size (diagonal): 50 inches
- Multiple Aspect Ratios with IntelliWide™ Mode
- Less than 5 inches deep
- Dual HDMI Inputs with High-bandwidth Digital Content Protection (HDCP)
- HDTV Compatible
- Exceptional detail and artifact-free video enhancement
- Superior video processing with 3:2 film detection circuitry

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### 1.3 Description, Features and Benefits

#### ◀ **Key Features and Benefits**

**Parts List** ➤ Your PlasmaView is shipped with the following items. If any items are missing or damaged, please contact your Vidikron dealer or Vidikron Customer Service at (888) 4VIDIKRON.

- PlasmaView High-Definition Plasma Display
- AC Power Cord
- Remote Control Unit and two (2), AAA-size batteries
- Warranty information and registration card
- Vidikron PlasmaView Owner's Operating Manual (this document)
- Ferrite cores (2)
- Cable Clamps
- Wall Mount Kit (part number VIHk-000200)

or

Table Stand (part number VIHk-000250)

- Safety metal fittings
- Screws for safety metal fittings



**Note**

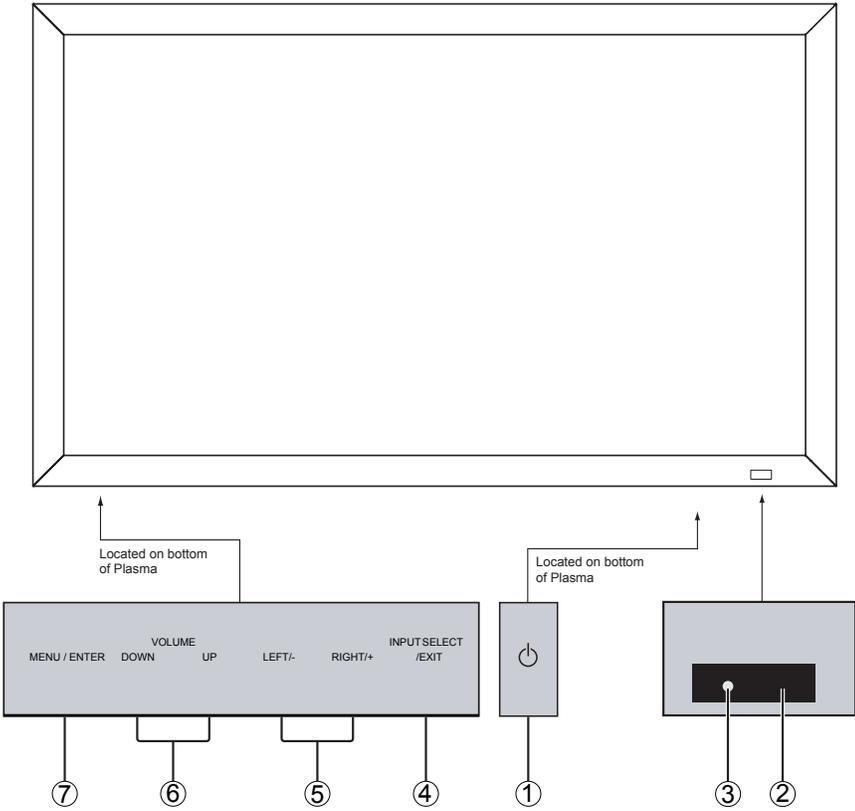
*Use the safety fittings to fasten the PlasmaView to a wall when using the optional tablestand. This prevents tipping due to external shock. Use the supplied screws to fasten the safety fittings to the holes in the back of the plasma.*

# Controls and Functions

## 2.1 PlasmaView at a Glance

Figure 2-1 and Figure 2-2 show the locations of the PlasmaView controls, indicators and connectors.

### ← Controls and Indicators



**Figure 2-1. PlasmaView Controls and Indicators**

- 1. POWER BUTTON**  
Turns the monitor's power on and off.
- 2. REMOTE CONTROL SENSOR**  
Receives the signals from the remote control.
- 3. POWER/STANDBY INDICATOR**
  - Lights red to indicate that the PlasmaView is in standby mode;
  - Lights green to indicate normal operation;
  - Flashes red to indicate that the internal temperature is too high.
- 4. INPUT SELECT/EXIT**  
Press this button to switch inputs, or exit the current menu if an On-Screen Display (OSD) menu is visible.

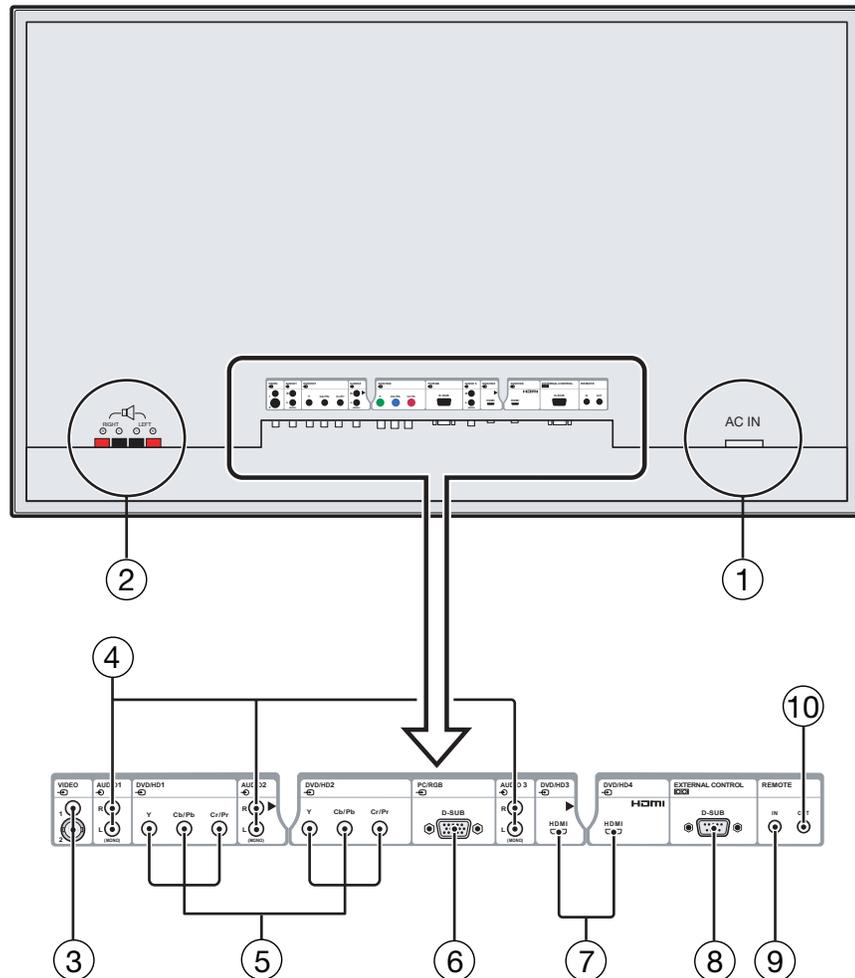
5. **LEFT/- and RIGHT/+**  
These enlarge or reduce the image and function as CURSOR (◀ / ▶) buttons in OSD mode.
6. **VOLUME DOWN and UP**  
These adjust the volume and function as CURSOR (▲ / ▼) buttons in OSD mode.
7. **MENU/ENTER**  
Press this button to access the On-Screen Display (OSD) controls. Press this button during the display of the main menu to go to a submenu. Also used to select a highlighted menu item or confirm a changed setting.



**WARNING**

The Power on/off switch does not disconnect the plasma display completely from the supply mains.

**Connectors** ➤



**Figure 2-2. PlasmaView Connector Panel**

1. **POWER INPUT (100 to 240 VAC)**  
Connect the PlasmaView to power here, using the included power cord.
2. **EXTERNAL SPEAKER OUTPUTS**  
Connect optional, external speakers here. Maintain the correct polarity. Connect the ⊕ (positive) and ⊖ (negative) speaker wires to the EXT SPEAKER terminals on both the LEFT and RIGHT channels. Please refer to the owner's manual for your speakers.
3. **VIDEO1, 2 (RCA, S-Video)**  
Standard, Composite video and S-Video inputs for connecting a DVD player, satellite receiver, camcorder, laser disc player or Super VHS (S-VHS) VCR.
4. **AUDIO1, AUDIO2, AUDIO3**  
Stereo, RCA-type audio inputs. You can associate each audio input with any video input -- that is, specify which audio input becomes active when a given video source is selected. For more information, refer to **Audio Setup** on page 32.
5. **DVD/HD1**  
**DVD/HD2**  
Standard-definition (480i/576i) or high-definition (720p/1080i), YPrPb component inputs for connecting a DVD player or high-definition TV source.

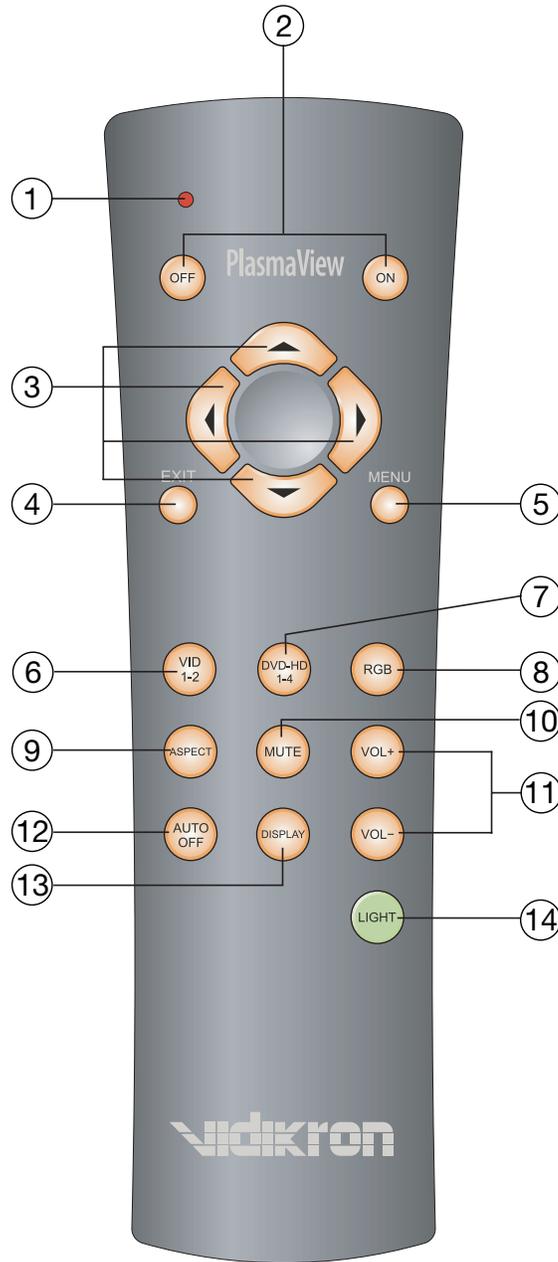
**Tip**

*For best results, do not run your DVD player in progressive mode.*

6. **PC/RGB (15-pin D-Sub)**  
Connect an analog RGB signal from a computer or DTV decoder here.
7. **DVD/HD3, DVD/HD4 (HDMI)**  
HDCP-compliant digital video input for connecting a DVD player, personal computer or HD tuner with a DVI or HDMI output.
8. **EXTERNAL CONTROL (9-pin, male D-Sub)**  
A male, 9-pin D-sub connector for interfacing with a PC or home theater automation/control system.
9. **REMOTE IN (3.5-mm mini phone jack, tip/ring/sleeve)**  
Wired input from an external remote control or infrared (IR) receiver.
10. **REMOTE OUT (3.5-mm mini phone jack, tip/ring/sleeve)**  
Wired output to the REMOTE IN jack of another device; allows you to control both the PlasmaView and the other device using the same wired remote control.

## 2.2 PlasmaView Remote Control

Figure 2-3 shows the PlasmaView remote control, and the paragraphs that follow describe its functionality.



**Figure 2-3. PlasmaView Remote Control**

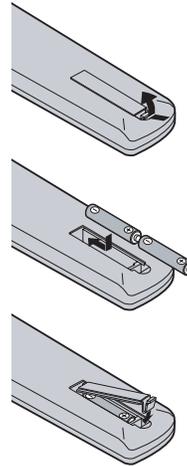
- 
1. **IR OUTPUT INDICATOR**  
Lights when a button is pressed to indicate that an IR signal is being transmitted.
  2. **POWER ON/OFF**  
Use these buttons to turn the PlasmaView on or off. (This does not operate when the POWER/STANDBY indicator of the main unit is off.)
  3. **CURSOR (▲, ◀, ▼, ▶)**  
Use these buttons to select items or settings, adjust settings or switch display patterns.
  4. **EXIT**  
Press this button to exit the OSD controls in the main menu. Press this button during the display of a submenu to return to the previous menu.
  5. **MENU**  
Press this button to access the On-Screen Display (OSD) controls. Press this button during the display of the main menu to go to a submenu. Also used to select a highlighted menu item or confirm a changed setting.
  6. **VID 1-2**  
Press this button to select VIDEO 1 as the source. Press it again to select VIDEO 2.
  7. **DVD-HD 1-4**  
Press this button repeatedly to select a DVD/HD source.
  8. **RGB**  
Press this button to select the PC/RGB input as the source.
  9. **ASPECT**  
Press this button to select an aspect ratio. (Not active for all signals.)
  10. **MUTE**  
Press to mute the audio output. Press it again to restore the sound.
  11. **VOLUME (+/-)**  
Use these buttons to adjust the audio volume.
  12. **AUTO OFF**  
Press this button to set the sleep timer. Press it repeatedly to scroll through the available options (30, 60, 90 or 120 minutes; or, select 0 to turn the timer off).
  13. **DISPLAY**  
Displays the currently-selected aspect ratio and input on the screen.
  14. **LIGHT**  
Press to illuminate the buttons.

**Notes:**

# Installation

To install batteries in the remote control:

1. Remove the battery cover from the remote control.
2. Insert the two (2), AAA-size batteries included with the remote control. Ensure that the polarities correctly match the  $\oplus$  and  $\ominus$  markings inside the battery compartment.
3. Replace the battery cover.



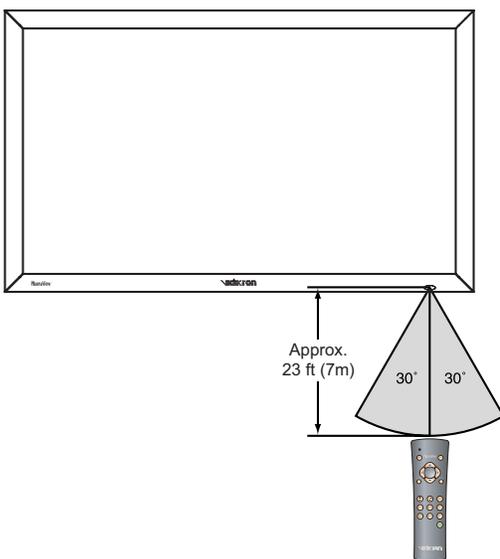
## 3.1 Remote Control

- When installing batteries, make sure that the battery polarities are correct.
- Do not mix an old battery with a new one or different types of batteries.
- If you will not use the remote control for a long time, remove the batteries to avoid damage from battery leakage.

### ◀ Notes on Batteries

The remote control can be used to control the PlasmaView within the ranges shown in Figure 3-1.

### ◀ Notes on Remote Control Operation



**Figure 3-1. Available Range of the Remote Control**

- Do not drop the remote control or expose it to moisture or high temperature.
- The remote control may malfunction under a fluorescent lamp. If that occurs, move the plasma display away from the fluorescent lamp.
- Make sure that there is nothing obstructing the infrared beam between the remote control and the IR receiver on the plasma display.



**Note**

*The signal from the remote control can be reflected by walls or other surfaces.*

- If the effective range of the remote control decreases, or it stops working, replace the batteries with new ones.
- Ambient conditions may possibly impede the operation of the remote control. If this happens, point the remote control at the plasma display and repeat the operation.

Table 3-1 gives a quick overview of the PlasmaView installation process. The sections following this one provide detailed instructions.

## 3.2 Quick Setup



### Note

*Installation should be performed by a qualified custom video installation specialist.*

**Table 3-1. Installation Overview**

Step	Procedure	For Details, refer to page...
1	Mount the PlasmaView on a wall or table stand	14
2	Connect signal sources to the PlasmaView	17
3	Connect external controller to RS-232 port (optional)	19
4	Apply power to the PlasmaView	21
5	If using the PlasmaView with a PC, adjust PC display properties	22
6	Display calibration: adjust the following <b>for each input</b> ; save settings when finished: <ul style="list-style-type: none"> <li>• Aspect ratio</li> <li>• Brightness</li> <li>• Contrast</li> <li>• Color level</li> <li>• Tint</li> <li>• Sharpness</li> </ul>	25 through 31
7	Configure audio inputs	32

### 3.3 Installation Considerations

Proper installation of your PlasmaView will ensure the highest possible picture quality. Whether you are installing the PlasmaView temporarily or permanently, you should take the following into account to ensure that it performs optimally.

#### **High-Altitude Operation** ➤

Due to the design of all plasma glass panels made by every manufacturer, and the interaction between ambient air pressure and the plasma gases contained inside of the panel, reliable operation of your plasma display cannot be assured during operation at certain high-altitude locations.

Vidikron has found the VP-5000 to operate reliably at altitudes of up to 6000 MSL (mean sea level). The VP-5000a has been found to operate reliably at altitudes of up to 9000 MSL.

At higher elevations, each panel may react differently, depending upon the altitude, air pressure, humidity and other meteorological factors. If you are planning to use this product at a location above 9000 feet, please contact Vidikron technical support for further information.

#### **Mounting the PlasmaView on a Wall or Table Stand** ➤

To install the PlasmaView, you will need either an optional table stand or wall-mounting kit. The PlasmaView cannot be installed on its own.

If you do decide to wall-mount the PlasmaView, ensure that the wall-mount bracket is installed according to the instructions included with it. The wall must be capable of supporting a redundant weight factor three (3) times the weight of the display, or be reinforced.

Vidikron recommends that this be done by a custom installation specialist.

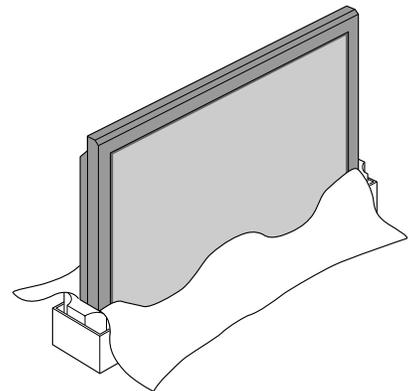


#### **Note**

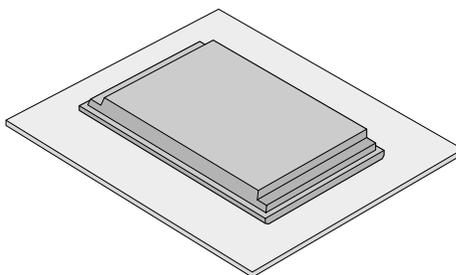
*Use only a Vidikron-approved wall-mount kit or table stand that is specifically designed for your display.*

You can attach your optional mounts or stand to the PlasmaView in either of two ways:

- While it is upright.



- As it lies flat with the screen face down. Place the protective sheet, which was wrapped around the plasma monitor when it was packaged, between the screen and your work surface to avoid scratching or otherwise damaging the screen surface.

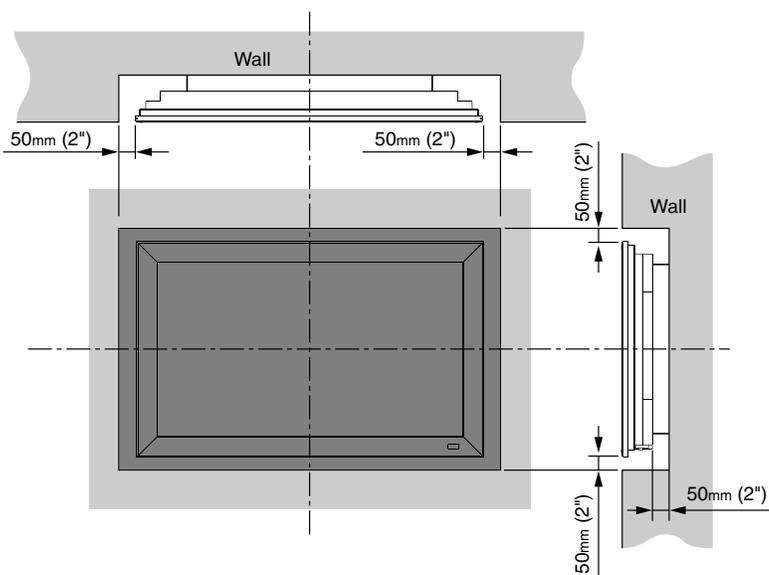


In general, minimize or eliminate light sources directed at the display. Contrast ratio in your images will be noticeably reduced if light directly strikes the display, such as when a shaft of light from a window or floodlight falls on the image. Images may then appear washed out and less vibrant.

◀ **Ambient Light**

If you are mounting the PlasmaView in an enclosure, leave at least 2 inches (50 mm) of space on all sides between it and surrounding objects, as shown in Figure 3-2. This allows heat to disperse, maintaining the proper operating temperature.

◀ **Ventilation**



**Figure 3-2. Ventilation Requirements for Enclosure Mounting**

- Other Considerations** ➤ Other considerations and tips that can help improve your installation, avoid damage and prolong operating life:
- Keep the ambient temperature constant and below 35°C (95°F). Keep the display away from heating and/or air conditioning vents. Changes in temperature may cause drifts in the display circuitry, which may affect performance.
  - Keep the PlasmaView away from devices that radiate electromagnetic energy such as motors and transformers. Common sources of these include slide projectors, speakers, power amplifiers and elevators.
  - Handle the unit carefully when installing it. When carrying it, use the built-in handles; DO NOT touch or hold the screen face.
  - Set the unit away from heat, excessive dust, and direct sunlight.
  - Protect the inside of the unit from liquids and small metal objects. In case of accident, unplug the power cord and have it serviced by an authorized Service Center.
  - Do not hit or scratch the panel surface as this causes flaws on the surface of the screen.
  - For correct installation and mounting it is strongly recommended to use a trained, authorized dealer.
  - To avoid sulfurization, it is strongly recommended not to place the unit in a dressing room in a public bath or hot spring bath.

Proceed as follows to connect the PlasmaView to your video sources, external controller(s) – if present – and AC power.

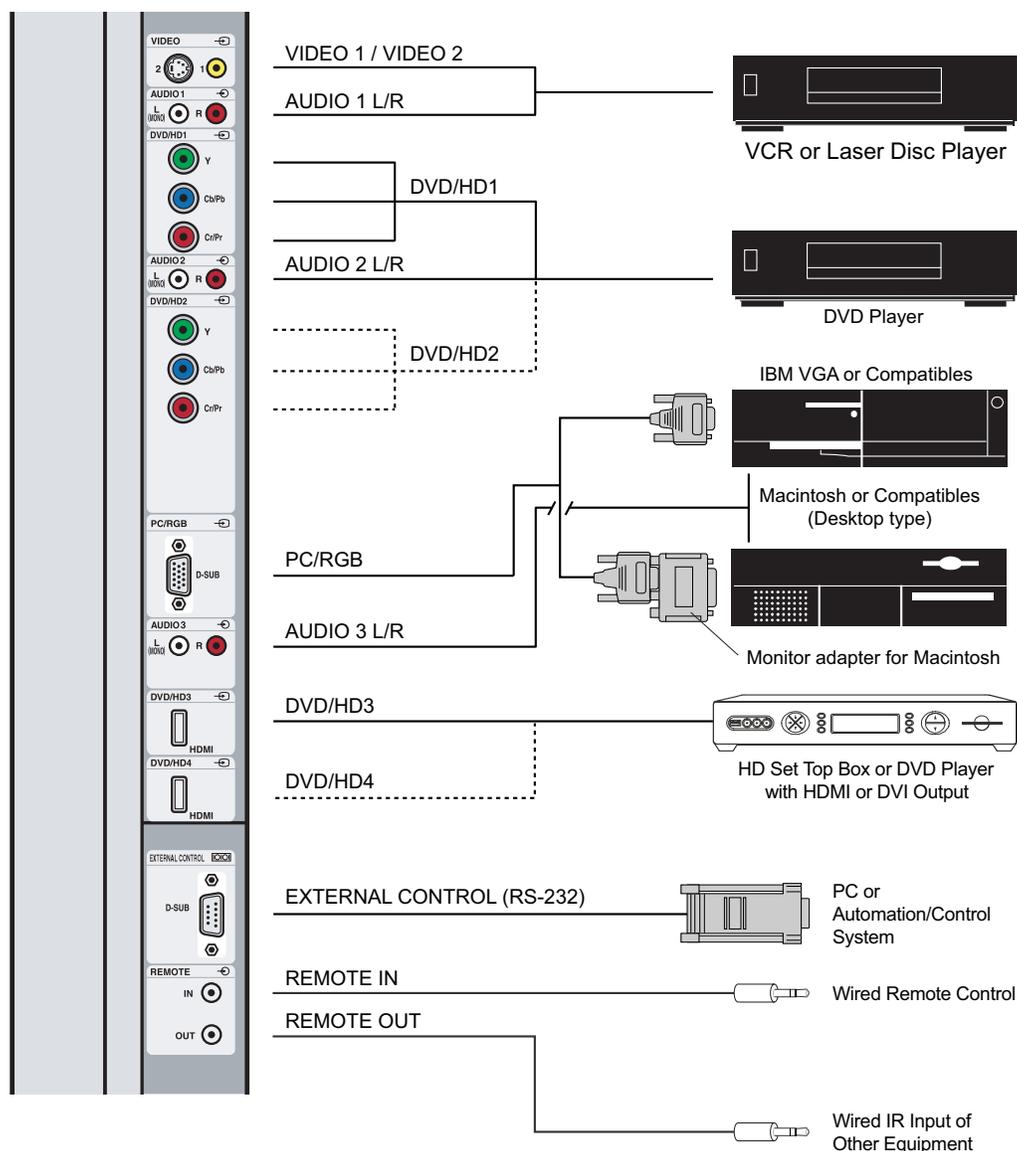
When connecting your equipment:

- Turn off all equipment before making any connections.
- Use the correct signal cables for each source.
- Ensure that the cables are securely connected. Tighten the thumbscrews on connectors that have them.
- Use the left audio input when connecting mono audio sources.

Connect your video sources to the PlasmaView as shown in Figure 3-3 and described in the sections that follow.

### 3.4 Connections to the PlasmaView

#### ◀ Connecting the PlasmaView to Source Components



**Figure 3-3. PlasmaView Connection Diagram**

**HDMI Connections:** The PlasmaView has two HDMI inputs for connecting a DVD player, DTV decoder or any other device with a DVI or HDMI output. Connect such devices to the DVD/HD3 and DVD/HD4 inputs.



*Use the HDMI inputs whenever possible. This ensures the highest video quality because the signal is carried in the digital domain throughout the entire signal path, from source component output into the display.*

**RGB-HD Connection:** Connect your personal computer or DTV decoder with an RGB output to the PC/RGB input on the PlasmaView.



1. Refer to **Computer/Video Signal Compatibility** on page 50 for a list of computer signals compatible with the PlasmaView. Use with signals other than those listed may cause some functions not to work.
2. Some Macintosh computers may require a Macintosh video adapter. Contact your nearest authorized service center or dealer.
3. This PlasmaView may not be able to display images from notebook computers in simultaneous (CRT/LCD) mode. Should this occur, switch the notebook computer to "CRT only" mode. If you are unsure how to do this, refer to your notebook computer's user manual.

**Component Video Connections:** If you have a DVD player or DTV decoder with a component (YPbPr) output, connect it to the DVD/HD1 or DVD/HD2 input of the PlasmaView.

**Composite/S-Video Connections:** The PlasmaView has S-Video (VIDEO2) and Composite (VIDEO1) video inputs for connecting a VCR, camcorder, laser disc player or DVD player.

### **Audio Connections** ➤

**Audio Inputs:** The PlasmaView has three (3), stereo audio inputs. Connect the audio outputs from your source components to these inputs.

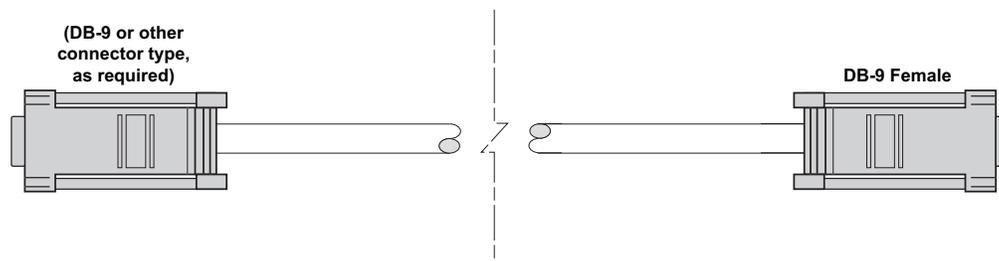
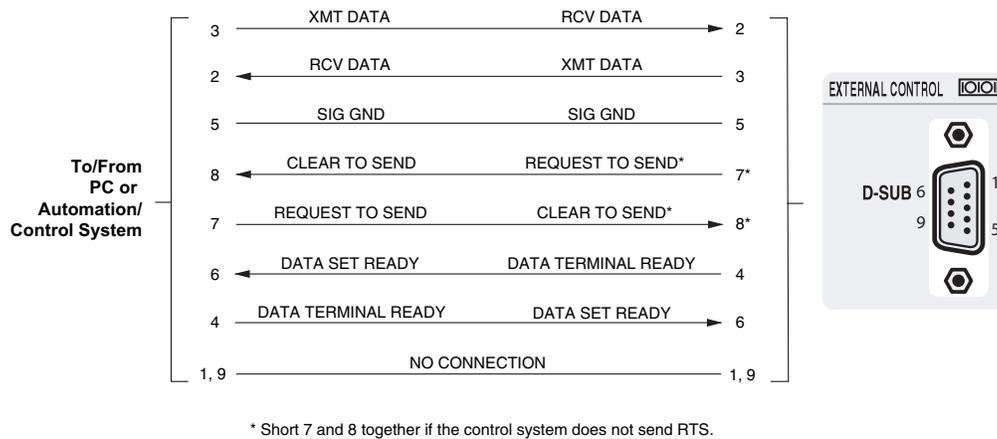
You can associate each audio input with any video input -- that is, specify which audio input becomes active when a given video source is selected. For more information, refer to **Audio Setup** on page 32.

**Speakers:** The PlasmaView has an internal, 9W per channel stereo amplifier that can drive a pair of stereo speakers. Connect the ⊕ (positive) and ⊖ (negative) speaker wires to the EXT SPEAKER terminals on both the LEFT and RIGHT channels. **Maintain the correct polarity.** For more information, refer to the owner's manual for your speakers.

Use a 9-pin, "null-modem" (cross-over) RS-232 cable to connect a PC or home theater control/automation system (if present) to the EXTERNAL CONTROL port on the PlasmaView; see Figure 3-4.

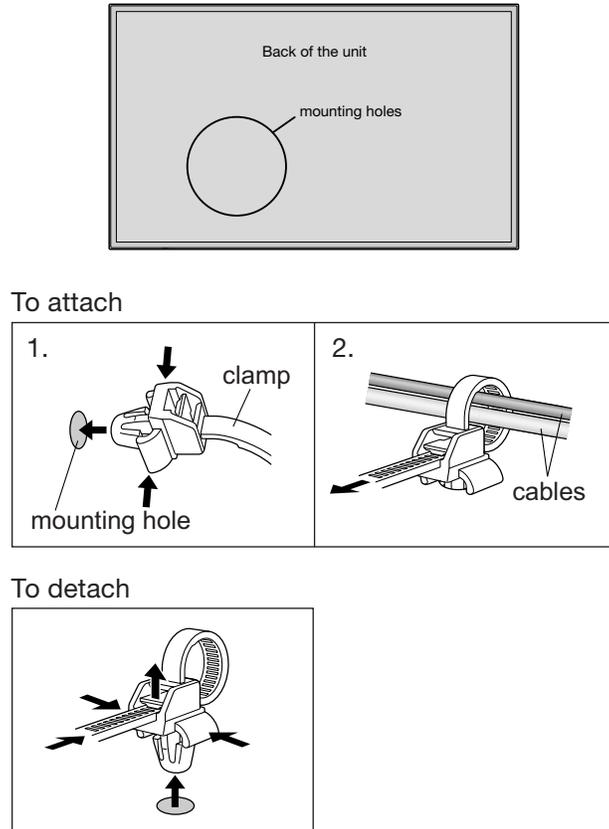
◀ **RS-232 Controller Connection**

For more information about using this connection, refer to **Serial Communications** on page 43.



**Figure 3-4. RS-232 Control System Connection**

**Cable Management** ➤ To minimize cable clutter, use the cable clamps provided with the PlasmaView to bundle the video, audio and control cables at the back of the display. Install the clamps as shown in Figure 3-5.



**Figure 3-5. Installing the Cable Clamps**

1. Turn on your source components.
2. Attach the two ferrite cores supplied with the display to each end of the AC power cable as shown in Figure 4-1. Doing so will reduce radio frequency interference (RFI) emissions to a level that conforms to FCC regulations. Use the supplied plastic bands to secure the cores in place.



**Figure 4-1. Attaching the Ferrite Cores to the Power Cable**

3. Plug the female end of the power cord into the AC receptacle on the rear of the PlasmaView (AC 100V ~ 240V). Connect the other end to your AC power source.
4. Press the **POWER** button on the underside of the PlasmaView (see Figure 2-1). The power indicator lights solid green.
5. After a brief warm-up period (approximately 10 seconds), the PlasmaView will display an image.

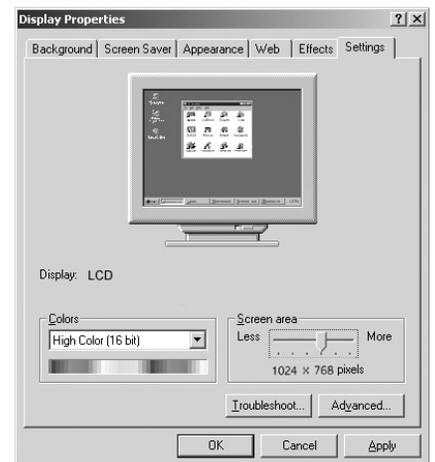
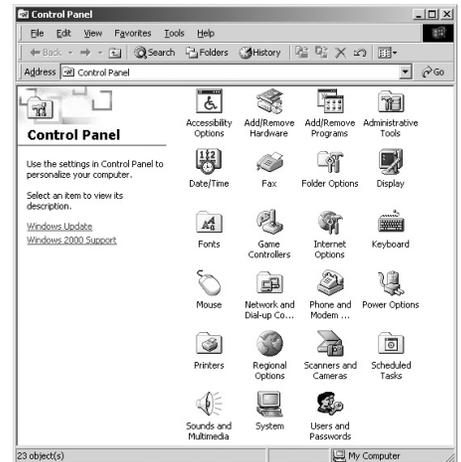
### 4.1

#### Turning on the Power

## 4.2 Setting the PC Display Properties

To maximize image quality when using the PlasmaView with a personal computer, you may need to adjust the display properties of your PC video card. To do this:

1. Choose Settings from the Windows Start menu and click on "Control Panel."
2. Double click on the **Display** icon.
3. Click the **Settings** tab on the display dialog box.
4. Adjust the resolution to 1024x768 pixels.
5. Click the **Advanced** button and click the **Monitor** tab on the dialog box. Set the vertical frequency to 60Hz and click **OK**.



**Note**

1. The native resolution of the VP-5000 is 1365 x 768. Other horizontal or vertical resolutions may be scaled upward or downward to fit the display.
2. With most computers, you can get the best picture at 1024 x 768 @ 60Hz.
3. The PlasmaView supports 36-bit color (68.7 billion possible colors).

**WARNING**

To prevent image retention (burn-in) on your display, **ALWAYS** use a screen saver and set it to the shortest possible time.

To use the on-screen menus:

1. Press **MENU** to display the Main Menu.
2. To select a menu item, use the up- or down-arrow buttons ( ▲, ▼ ) on the remote control to highlight it.
3. Press **MENU** to access that menu.
4. Use the up- or down-arrow buttons ( ▲, ▼ ) to select the setting you want to change. Then, press **MENU**.
5. Press the right- or left-arrow button ( ◀, ▶ ) to change that setting. (If you do not do this within five seconds, the sidebar disappears.)
6. To return to the previous menu, press **EXIT**. If the Main Menu is on-screen, pressing **EXIT** hides the OSD menu.

The PlasmaView OSD menus are arranged hierarchically, as shown in Figure 4-2.

**Note**

Depending on the selected input source and signal characteristics, some menu options may not be available.

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### 4.3 Using the On-Screen Menus

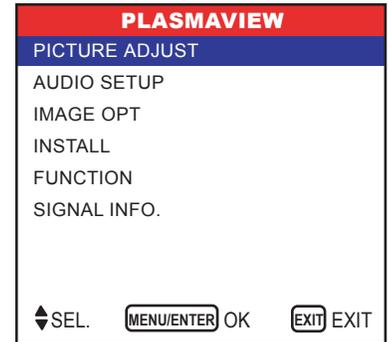
<b>Picture Adjust</b>	Memory Setting	Off, Memory 1, Memory 2 ... Memory 6		
	Contrast	0 ... 72		
	Brightness	0 ... 64		
	Sharpness	0 ... 32		
	Color	0 ... 64		
	Tint	(R) 0 ... 64 (G)		
	Video NR	Off, Video NR1, Video NR2 or Video NR3		
	Color Temp.	5400, 6500, 8500 or 9300K	Gain Red	
			Gain Green	
			Gain Blue	
			Red Offset	
			Green Offset	
			Blue Offset	
	Cinema Mode	On / Off		
	Image Preset	ISF Day, ISF Night, Standard, Preset 1, Preset 2, Preset 3, Factory		
Gamma	2.1, 2.2, 2.3 or 2.4			
Dither (Model VP-5000 only)	Mode1 or Mode2			
Black Level	Normal, Step 1 or Step 2			
ICC	Red	(Y) 0 ... 32 ... 64 (M)		
	Green	(C) 0 ... 32 ... 64 (Y)		
	Blue	(M) 0 ... 32 ... 64 (C)		
	Yellow	(G) 0 ... 32 ... 64 (R)		
	Magenta	(R) 0 ... 32 ... 64 (B)		
	Cyan	(B) 0 ... 32 ... 64 (G)		
	Reset			
<b>Audio Setup</b>	Bass	0 ... 13 ... 26		
	Treble	0 ... 13 ... 26		
	Balance	(L) -22, -21 ... 0 ... +21, +22 (R)		
	Audio Input 1	Video 1, Video 2, DVD/HD1,		
	Audio Input 2	DVD/HD2, DVD/HD3,		
	Audio Input 3	DVD/HD4, RGB		
	DVD/HD3 Input DVD/HD4 Input	Input 1-3 or HDMI		
<b>Image Options</b>	Aspect Ratio	4:3, 16:9, Letterbox, IntelliWide, CinemaFill		
	V-Shift	-64 ... 0 ... +64		
	H-Shift	-128 ... 0 ... +127		
	V-Size	0 ... 64		
	H-Size	0 ... 64		
	Auto Adjust	On / Off (PC/RGB Input only)		
	Fine Picture (only if Auto Adjust = Off)	0 ... 64 (PC/RGB Input only)		
	Picture Adj. (only if Auto Adjust = Off)	0 ... 128 (PC/RGB Input only)		
<b>Install</b>	Language	English		
	DVD/HD1 Input	Component		
	D-SUB Type	RGB		
	HD Type	540p, 1035i or 1080i		
	RGB Type	Auto		
	HDMI Bk. Level	Low or High		
	Video Standard	Auto, 3.58 NTSC, 4.43 NTSC, PAL, PAL-60, PAL-N, PAL-M or SECAM		
	Background	Black or Gray		
	Sidebar Lev.	(B) 0, 1, 2 ... 15 (G)		
	S1/S2	Off or Auto		
	Display OSD	On / Off		
	OSD Adjust		1 (Top Left)	
			2 (Top Center)	
			3 (Top Right)	
			4 (Bottom Left)	
5 (Bottom Center)				
6 (Bottom Right)				
ID Remote	ALL, 1, 2, 3 or 4			
Factory	On / Off			
Advanced OSD	On / Off (Note)			
Auto Off	On / Off			
Input Skip	On / Off			
Sub. Picture	Sub. P Detect	Auto or Off		
	Display	Normal or Fade		
	Sub. P Rate	20%, 30% ... 100%		
Zoom Nav	Off, S by S, Btm Left, Btm Right, Top Right, Top Left			
Image Freeze	Off, S by S1, S by S2, Btm Left, Btm Right, Top Right, Top Left			
Pixel Protect	Auto			
	Manual - Lum. Setting	Auto, Level 1, Level 2 or Level 3		
	Manual - Orbiter	Off, Auto1 or Auto2		
	Manual - Inverse	On, Off or White		
	Manual - Image Sweep	On / Off		
	Manual - Soften	Off, 1, 2, 3 or 4		
Manual - OSD Orbiter	On / Off			
Manual - OSD Contrast	Level 1 or Level 2			
CC	Off, Caption1, Caption2, Caption3, Caption4, Text1, Text2, Text3 or Text4			
CC Contrast	Level 1 or Level 2			
Pwr. On Select	Input Select	Last, Video 1, Video 2, DVD/HD 1-4 or RGB		
	Volume	0 ... 42		
Protocol Set	On / Off			
<b>Signal Info</b>	V. Freq.			
	H. Freq.			
	H. Polarity			
	V. Polarity			
	Mode/Memory			
Resolution				

**Note:** Menu items in italics appear only when Advanced OSD is set to On.

**Figure 4-2. PlasmaView OSD Menu Structure**

The Main Menu is the starting point for accessing all PlasmaView functions.

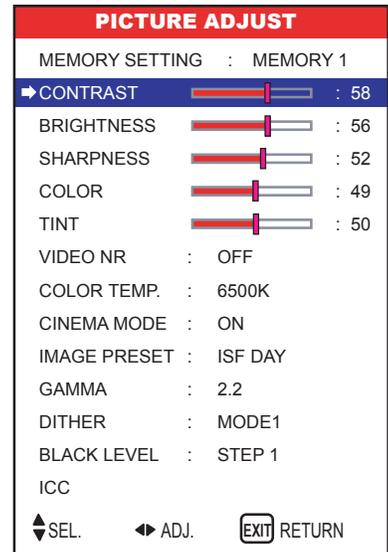
◀ **Main Menu**



Use the controls in the Picture Adjust menu to calibrate your PlasmaView for optimum picture quality.

◀ **Picture Adjust**

The PlasmaView has been designed to incorporate setup and calibration standards established by the Imaging Science Foundation (ISF). The ISF has developed carefully crafted, industry-recognized standards for optimal video performance and has implemented a training program for technicians and installers to use these standards to obtain optimal picture quality from Vidikron video display devices. Accordingly, Vidikron recommends that setup and calibration be performed by an ISF-certified installation technician.



All signal types require separate processing. Therefore, you need to calibrate each input separately.



**Note**

1. When you change a picture quality setting, save the change to an image memory afterwards. Otherwise, the change will be lost when a different input is selected. (Picture quality settings are saved for each input and resolution separately.) For information about saving settings, refer to **Memory Setting** on page 31.
2. Only brightness and contrast controls are available on the PC/RGB input.

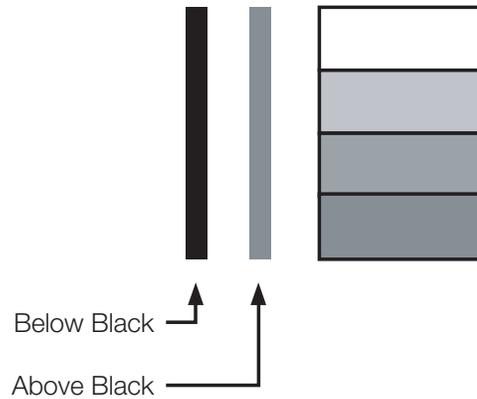
Although it may be possible to obtain satisfactory picture quality using the naked eye and regular program material, Vidikron recommends using the following calibration tools for best results:

- External test pattern source – Ovation Multimedia, Video Essentials or AVIA test DVD (or equivalent).
- A blue filter (provided with many test DVDs), for color level and tint adjustments.

Connect your test pattern source to the input that you are calibrating and proceed as follows.

**Perform the adjustments in the order listed here.**

**Brightness:** On your external test pattern source, select a PLUGE pattern. (PLUGE is an acronym for “Picture Line-Up Generation Equipment.”) Figure 4-3 shows a typical PLUGE pattern.



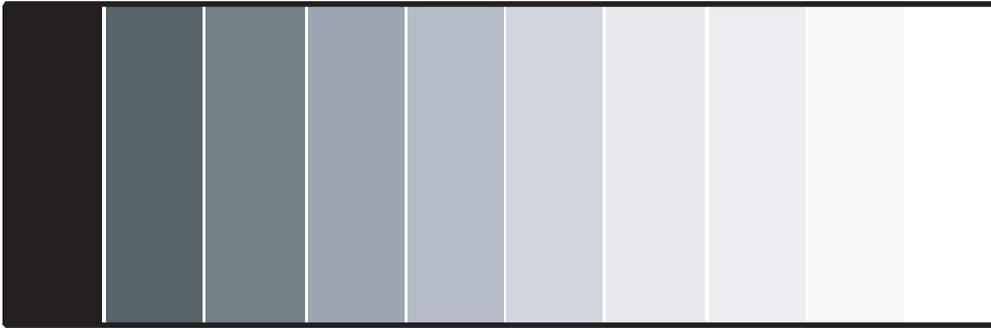
**Figure 4-3. Typical PLUGE Pattern for Adjusting Brightness**

PLUGE patterns vary but generally consist of some combination of black, white and gray areas against a black background. The example above includes two vertical bars and four shaded boxes.

Select Brightness from the Picture Adjust menu. Using the left- and right-arrow ( ◀ ▶ ) buttons, adjust the brightness so that:

- The darkest black bars disappear into the background.
- The dark gray areas are barely visible.
- The lighter gray areas are clearly visible.
- The white areas are a comfortable level of true white.
- The image contains only black, gray and white (no color).

**Contrast:** On your external test pattern source, select a stepped, gray-bar pattern like the one shown in Figure 4-4.



**Figure 4-4. Typical Gray Bar Pattern for Adjusting Contrast**

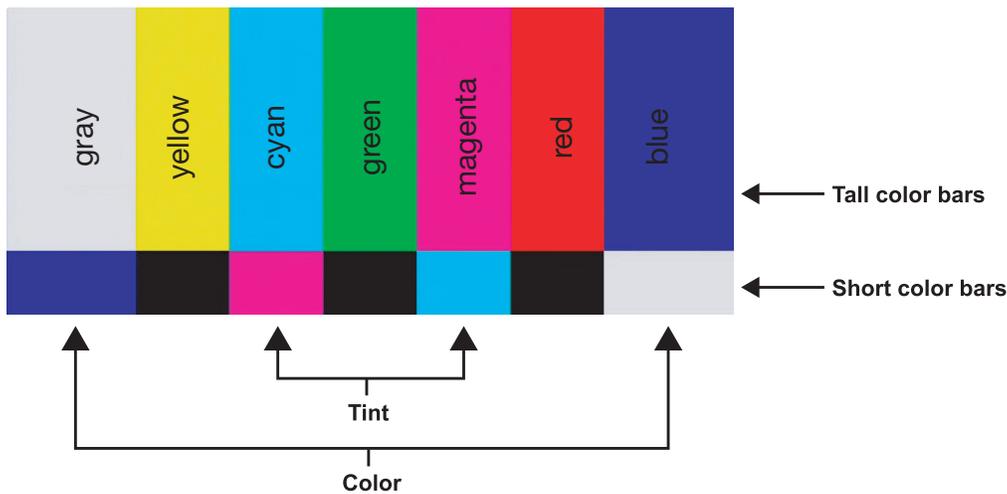
Select Contrast from the Picture Adjust menu. Using the left- and right-arrow ( ◀ ▶ ) buttons, adjust the contrast to a point just below which the white rectangle starts to increase in size.



**Note**

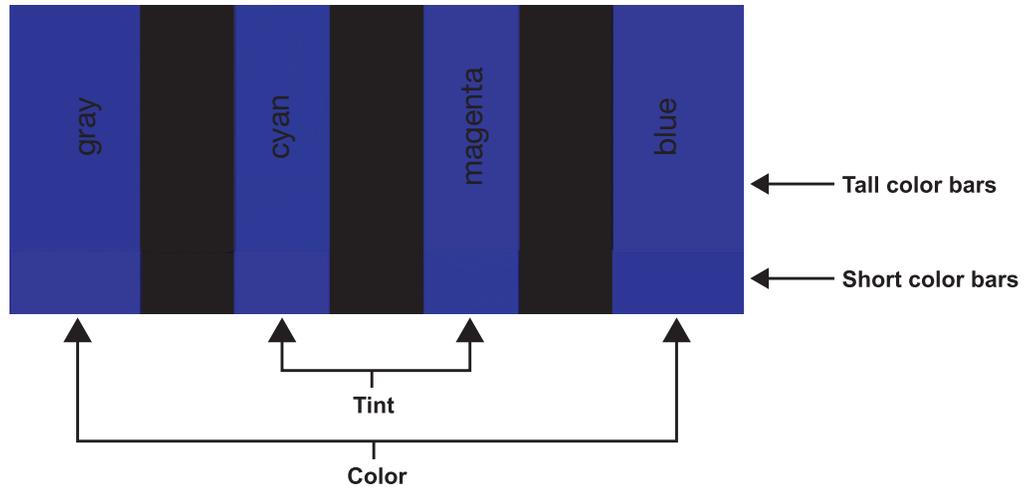
*Brightness and contrast controls are interactive. A change to one may require a subtle change to the other in order to achieve the optimum setting.*

**Color:** On your external test pattern source, select a color bar pattern like the one shown in Figure 4-5.



**Figure 4-5. Typical Color Bar Pattern for Adjusting Color Saturation and Tint**

Select Color from the Picture Adjust menu. While looking at the color bar pattern through a blue filter, adjust the color saturation level until the outermost (gray and blue) color bars appear to be a single shade of blue:



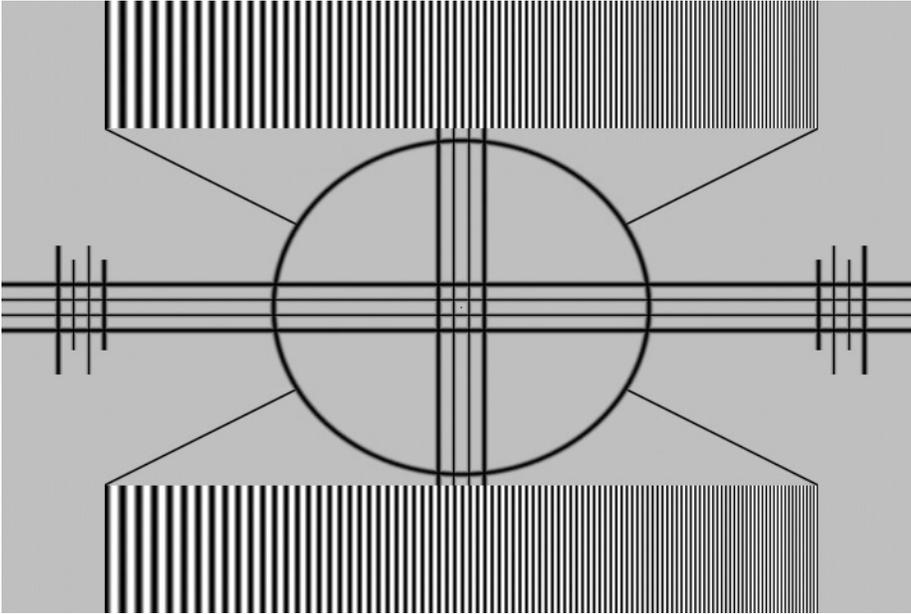
**Tint:** Tint or “hue” is essentially the ratio of red to green in the color portion of the image. When tint is decreased, the image appears redder; when it is increased the image appears greener. To set the tint, select Tint from the Picture Adjust menu. While looking at the color bar pattern through a blue filter, adjust the tint level until the cyan and magenta color bars (on either side of the green bar) appear to be a single shade of blue.



**Note**

*Like the brightness and contrast controls, the color and tint controls are interactive. A change to one may require a subtle change to the other in order to achieve the optimum setting.*

**Sharpness:** “Sharpness” is the amount of high-frequency detail in the image. To adjust sharpness, select Sharpness from the Picture Adjust menu and press **MENU**. On your external test pattern source, select a pattern like the one shown in Figure 4-6. Adjust as needed, looking for white edges around the transitions from black to gray and different sized lines in the “sweep” patterns at the top and bottom. Lower the sharpness setting to eliminate them.



**Figure 4-6. Typical Test Pattern for Adjusting Sharpness**

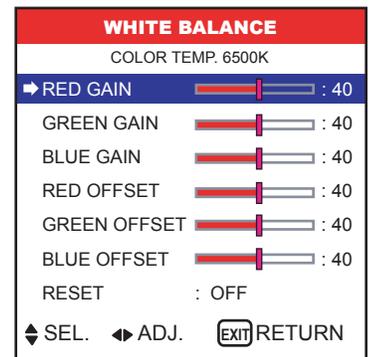
**Video NR:** To apply Digital Noise Reduction (DNR) to the input signal, select Video NR from the Picture Adjust menu. Noise reduction is useful for clearing up noisy RGB images such as those from a PC.

Use the left- or right-arrow buttons to select the desired amount of noise reduction, keeping in mind that higher settings (which reduce high frequencies) may also “soften” the image.

**Color Temp.:** To adjust the color temperature, select Color Temp. from the Picture Adjust menu. (Color temperature defines the “color of gray.”) Use the left- and/or right-arrow buttons to select 5400K, 6500K, 8500K or 9300K. The default setting, 6500K, is appropriate for most situations. Higher settings produce a “bluer” picture; lower ones impart a reddish hue to the image.

**White Balance:** For each color temperature, you can fine-tune the white balance parameters to remove any trace of color from the white areas of the image. To do this, select a color temperature as described above and press **MENU**. Then:

- **Gain:** Use the Gain controls to correct color imbalances in the bright areas of the image. A good way to do this is to use a test pattern consisting mostly of solid white areas, such as an 80 IRE “window” pattern. If the white areas contain traces of red, green or blue, decrease the Gain for that color.
- **Offset:** Use the Offset controls in the White Balance sub-menu to correct color imbalances in the dark areas of the image. A good way to do this is to use a test pattern consisting mostly of dark gray areas, such as a 30 IRE “window” pattern. If the gray areas contain traces of red, green or blue, decrease the Offset for that color.



To reset the white balance settings to the factory default values, select Reset. Then, press the right-arrow button to select ON and press **MENU**.

**Note**

You must set the *Advanced OSD* option (in the *Function* menu) to ON in order to access the *Gamma*, *Dither*, *Black Level* and *ICC* settings. Refer to **Advanced OSD** on page 37.

**Cinema Mode:** When you enable Cinema Mode, the PlasmaView automatically detects and optimizes the display of interlaced video signals that originated from film. To disable Cinema Mode, set it to OFF.

**Image Preset:** The PlasmaView provides seven image quality presets per input that allow you to quickly change the image settings to suit the viewing environment and/or source material:

- Select PRESET1 or PRESET2 when watching video in a dark room. These settings provide darker, finer pictures, like the screen in movie theaters. For a darker image, select PRESET2.
- Select STANDARD when watching video in a bright room. This mode provides dynamic pictures with distinct differences between light and dark sections.
- The PRESET3 setting is similar to STANDARD but produces a brighter picture.
- The ISF DAY and ISF NIGHT presets are available only when an ISF-certified installation technician installs and calibrates the PlasmaView. Only an ISF-certified technician can modify the settings associated with these presets.
- To reset all image settings to their factory defaults, select the FACTORY preset.

**Gamma:** The Gamma control determines how gray shades are displayed between minimum input (black) and maximum input (white) for all signals. A good gamma setting helps to optimize blacks and whites while ensuring smooth transitions for the “in-between” values utilized in other grays.

Unlike brightness and contrast controls, Gamma allows you to lighten or darken the overall tone of your images without changing the extremes. All images will be more vibrant while still showing good detail in dark areas.

The default Gamma setting of 2.2 is appropriate for most typical home theater environments.

**Dither:** Dithering can improve detail in some signals, especially in dark areas of an image. Select Dither from the Picture Adjust menu and choose the dither method that is appropriate to the type of source material (MODE1 or MODE2).

**Black Level:** This control compensates for incoming elevated black levels present in certain video signals, and ensures that blacks in the display are neither “crushed” (where dark grays appear black) nor excessively elevated (where blacks appear dark gray).

By default, the PlasmaView automatically determines the best setting according to the type of incoming video signal. For some types of video, you may want to override the setting. Generally, if black appears crushed when brightness = 32, choose “NORMAL.” If black appears excessively elevated, use “STEP 1” or “STEP 2.”

**ICC:** Select ICC from the Picture Adjust menu to adjust the hue and color density for each of the six primary colors: red, green, blue, yellow, magenta and cyan. Changing these settings for a primary color alters the hue of that color and affects the gamut (range) of possible colors. For example, changing the value for red moves the color closer to either yellow or magenta, which in turn affects all displayed colors having a red component.

**Memory Setting:** Choose Memory Setting from the Picture Adjust menu to store the current input and image quality settings in one of six memory locations. These memory locations are global (that is, shared by all inputs). You can recall these settings at a later time, without manually recreating them.

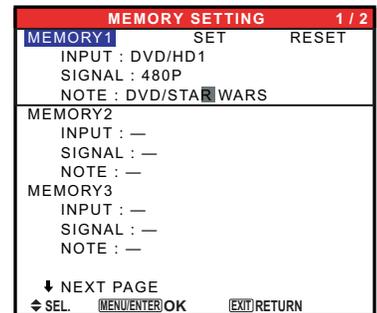
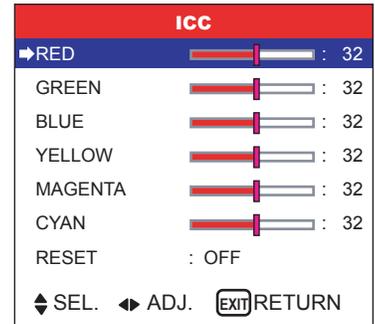
You should save changes to any of the following settings to a picture memory; otherwise they will be lost when a new input source is selected:

- Contrast/Brightness
- Color saturation/Tint
- Sharpness
- Gamma
- Color temperature and white balance

To store settings to a picture memory:

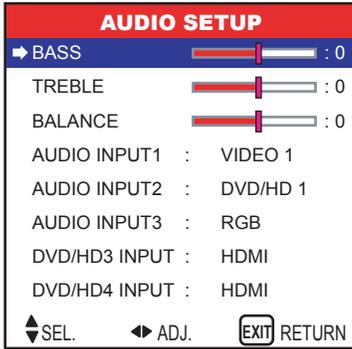
1. Select Memory Setting from the Picture Adjust menu.
2. Use the left- and/or right-arrow buttons to select a memory location (1 through 6).
3. Press **MENU** on the remote control. The Picture Memory screen appears.
4. Use the left- and/or right-arrow buttons to select SET, then press **MENU**.
5. If desired, enter a brief note (up to 15 characters long) describing the stored settings. To do this:
  - a Use the left- and/or right-arrow buttons to select NOTE, then press **MENU**.
  - b Use the up- and/or down-arrow buttons to select the character. Use the left- and/or right-arrow buttons to change the cursor position. Press **EXIT** to insert a space or delete a character at the current position.
  - c When you have finished entering the note, press **MENU**.

To recall a picture memory setting, perform Steps 1 and 2 above.



**Audio Setup** ➤

To adjust the bass, treble and left/right balance, or to assign the PlasmaView audio inputs to the video inputs, select Audio Setup from the Main Menu and press **MENU**.



**Bass:** To adjust the low-frequency response, select Bass from the Audio Menu and use the left- and/or right-arrow buttons to adjust the amount of bass in the audio signal.

**Treble:** To adjust the high-frequency response, select Treble from the Audio Menu and use the left- and/or right-arrow buttons to adjust the amount of treble in the audio signal.

**Balance:** To adjust the left/right speaker balance, select Balance from the Audio Menu and use the left- and/or right-arrow buttons to make one channel louder than the other.

**Audio Input 1/2/3:** This menu lets you assign each audio input on the PlasmaView to a video input. Doing so causes that audio signal to be heard through the speakers when the associated video input is selected.

For example, if a DVD player's video output is connected to the DVD/HD1 input on the PlasmaView and its audio output is connected to audio input 2, select AUDIO INPUT 2 from the Audio menu. Then, use the left- and right-arrow buttons to assign it to DVD/HD1.

**DVD/HD3 Input / DVD/HD4 Input:** If you are using these inputs to connect an HDMI-capable component, select HDMI to route the HDMI (digital) audio signal to the speakers when DVD/HD3 or DVD/HD4 is selected.

Select INPUT 1-3 if the HDMI component's analog audio out is connected to INPUT 1, INPUT 2 or INPUT 3.

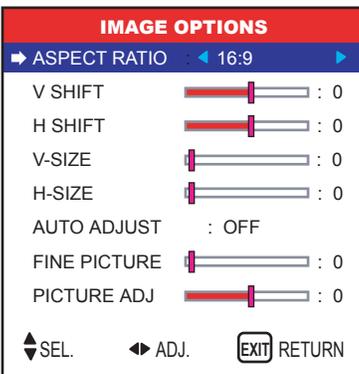


**Note**

*You cannot assign two or more audio inputs to the same video input.*

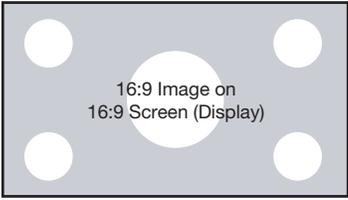
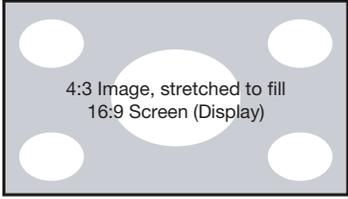
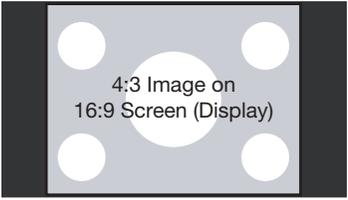
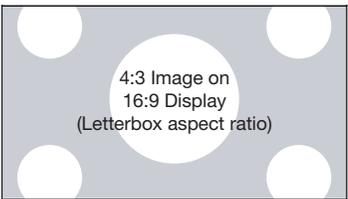
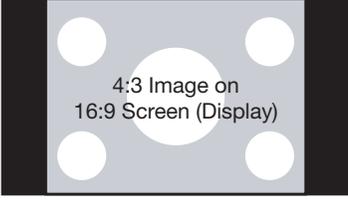
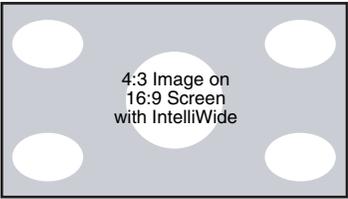
**Image Options** ➤

Use the controls in the Image Options menu to perform advanced image quality adjustments and access various other PlasmaView features.

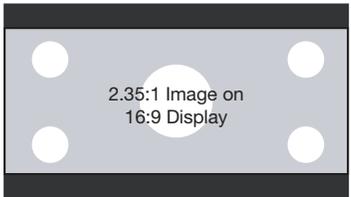


**Aspect Ratio:** To change the aspect ratio (size and shape) of the projected image, select Aspect Ratio from the Image Options Menu and press **MENU**. Select the appropriate aspect ratio for the type of program material being viewed; refer to Table 4-1.

**Table 4-1. Aspect Ratio Settings**

Aspect Ratio	Description
<p>16:9</p>	<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>Select 16:9 to view 16:9 DVDs and HDTV programs in their native aspect ratio.</p> </div> </div> <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>4:3 images are stretched horizontally to fit a 16:9 screen.</p> </div> </div>
<p>4:3</p>	<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>4:3 scales the input signal to fit in the center of the 16:9 screen. 4:3 is the aspect ratio used by computer monitors, standard television programming and most VHS video cassettes.</p> </div> </div>
<p>Letterbox</p>	<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>Letterbox mode scales (zooms in on) a 4:3 image linearly (by the same amount on all sides) to fill a 16:9 display. Letterbox is best suited for viewing LaserDisc movies or non-anamorphic DVDs on a 16:9 screen.</p> </div> </div>
<p>IntelliWide</p>	<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>IntelliWide scales a 4:3 image NON-linearly (more on the sides than in the center) to fit a 16:9 screen.</p> </div> </div> <div style="display: flex; align-items: center;">  </div>

**Table 4-1. Aspect Ratio Settings (continued)**

Aspect Ratio	Description	
CinemaFill	 <p>2.35:1 Image on 16:9 Display</p>	CinemaFill scales (zooms in on) a 2.35:1 image linearly (by the same amount on all sides) to fill a 16:9 display.
	 <p>2.35:1 Image on 16:9 Display with Cinema Fill</p>	This eliminates the black bars above and below the active image area. However, some picture information on the sides is lost.

**V Shift:** Use the up- or down-arrow buttons (▲, ▼) to highlight V Position. Then, use the right-arrow button (▶) to shift the image up; use the left-arrow button (◀) to shift the image down.

**H Shift:** Use the up- or down-arrow buttons (▲, ▼) to highlight H Position. Then, use the right-arrow button (▶) to shift the image to the right; use the left-arrow button (◀) to shift the image to the left.

**V Size:** Use the up- or down-arrow buttons (▲, ▼) to highlight V Size. Then, use the right-arrow button (▶) to increase the height; use the left-arrow button (◀) to decrease it.

**H Size:** Use the up- or down-arrow buttons (▲, ▼) to highlight H Size. Then, use the right-arrow button (▶) to increase the width; use the left-arrow button (◀) to decrease it.

**Auto Adjust (available only on PC/RGB Input):** To have the PlasmaView automatically adjust the size, position, and quality of RGB computer images, select Auto Adjust from the Image Options menu and set it to ON. To make these adjustments manually, set Auto Adjust to OFF.

**Fine Picture (available only on PC/RGB Input):** Use the Fine Picture control to reduce or eliminate flickering in the image.

**Picture Adjust (available only on PC/RGB Input):** Use the Picture Adjust control to remove striped patterns from the displayed image.



**Note**

*Fine Picture and Picture Adjust are adjustable only when Auto Adjust is set to OFF.*



**Note**

You must set the **Advanced OSD** option (in the Function menu) to **ON** in order to see all of the items in the **Install** menu. If you do not, only the **Language** and **Factory** menu items are available. Refer to **Advanced OSD** on page 37.

**Language:** Select **Language** from the Install Menu, then press ◀ or ▶ to highlight the desired language and press **MENU**. The change takes effect immediately.

**DVD/HD1 Input:** Select DVD/HD1 Input from the Install menu to specify the signal format on the DVD/HD1 input. Currently, the only option is COMPONENT.

**D-SUB Type:** Select D-SUB TYPE from the Install menu to specify the signal format on the PC/RGB input. Currently, the only option is RGB.

**HD Type:** Select HD Type from the Install menu to specify the resolution (number of vertical lines) of the incoming high definition signal, if necessary.

- Choose 1080i for standard digital broadcasts.
- Choose 1035i for Japanese “High Vision” TV broadcasts.
- Choose 540p for compatibility with certain HDTV receivers.

These are the only resolutions that the PlasmaView does not detect automatically.

**RGB Type:** RGB Type refers to the incoming RGB signal type. Currently, the only option is AUTO.

**HDMI Blk. Level:** Select HDMI from the Install menu to adjust the black level of the displayed HDMI signal. Set it to LOW if blacks appear elevated (dark gray). If blacks appear “crushed” (too dark), set it to HIGH.

◀ **Install**

INSTALL	
LANGUAGE	: ◀ ENGLISH ▶
DVD/HD1 INPUT	: COMPONENT
D-SUB TYPE	: RGB
▶ HD TYPE	: 1080i
RGB TYPE	: AUTO
HDMI BLK. LEVEL	: LOW
VIDEO STANDARD	: 3.58 NTSC
BACKGROUND	: GRAY
SIDEBAR LEV.	: 3
S1/S2	: ON
DISPLAY OSD	: ON
OSD ADJUST	: 3
ID REMOTE	: 1
FACTORY	: ON
◀ SEL.	▶ ADJ. [EXIT] RETURN

**Video Standard:** Select Video Standard from the Install menu to specify the color system for composite video (VIDEO 1) or S-Video (VIDEO 2) input signals.

Different countries use different formats for video signals. Select the appropriate color system for your country:

- **AUTO:** The color systems are automatically identified and the format is set accordingly.
- **PAL:** This is the standard format used mainly in the United Kingdom and Germany.
- **SECAM:** This is the standard format used mainly in France and Russia.
- **4.43 NTSC, PAL60:** This format is used for videos in countries using PAL and SECAM video signals.
- **3.58 NTSC:** This is the standard format used mainly in the United States and Japan.
- **PAL-M:** This is the standard format used mainly in Brazil.
- **PAL-N:** This is the standard format used mainly in Argentina.

**Background:** Select Background from the Install menu to choose the color (BLACK or GRAY) that is displayed when no input signal is present.



*Setting Background to GRAY makes it easier to see whether the display is turned off, or turned on and not receiving a signal.*

**Sidebar Lev.:** Select Sidebar Level from the Install menu to adjust the gray level for the sides of the screen when the Aspect Ratio is set to 4:3 (refer to Table 4-1). The range is from 0 (black) to 15 (light gray). The default setting is 3 (dark gray).

**S1/S2 (S-Video signals only):** If an incoming S-video signal contains screen size information, the PlasmaView can use that information to automatically adjust the image size to fit the screen. To enable this feature, select S1/S2 from the Install menu and set it to AUTO. To disable it, set it to OFF.

**Display OSD:** When you select an aspect ratio or input with the remote control, the PlasmaView displays your selection on-screen. When you adjust the volume, a sidebar appears as a visual indicator of the level. When you press **DISPLAY** on the remote control, the PlasmaView displays the currently-selected aspect ratio and input on-screen.

To prevent the display of these items, select Display OSD from the Install menu and set it to OFF.

**OSD Adjust:** To adjust the position of the on-screen menus, select OSD Adjust from the Install menu. The range is from 1 (top left) to 6 (bottom right).

**ID Remote:** This menu item is reserved for future use.

**Factory:** To restore the PlasmaView to its factory-default state, select Factory from the Install menu and set it to ON. "CONFIRM" appears on the screen during the reset, then disappears when the reset is complete.

All PlasmaView settings revert to their default values, with the following exceptions:

- **Image Options:** Aspect Ratio, Computer
- **Install:** Language, HD Type, HDMI, Color System

Select Function from the Main menu to configure advanced PlasmaView features such as power management, pixel protection, closed captioning and others.

◀ **Function**



**Note**

You must set the Advanced OSD option to ON to see all of the options in the Function menu.

**Advanced OSD:** To have access to all PlasmaView menus and settings, select Advanced OSD from the Function menu and set it to ON.

Once the PlasmaView has been installed and calibrated, you may wish to have it display only a subset of its menus, for the sake of simplicity. If so, set Advanced OSD to OFF. When you do, the PlasmaView hides the menu items shown *in italics* in Figure 4-2.

**Auto Off:** When using the PlasmaView with a computer, select Auto Off from the Function menu and set it to ON. The Auto Off (power management) function automatically reduces the monitor’s power consumption after a period of no input from the keyboard or mouse.

FUNCTION	
ADVANCED OSD :	OFF
▶ AUTO OFF :	◀ OFF ▶
INPUT SKIP :	OFF
SUB. PICTURE	
ZOOM NAV :	OFF
IMAGE FREEZE :	S BY S1
PIXEL PROTECT :	AUTO
CC :	OFF
CC CONTRAST :	LEVEL 1
PWR. ON SELECT	
PROTOCOL SET :	OFF
▲SEL.	◀ADJ. [EXIT] RETURN



**Note**

1. If the computer is turned off or not properly connected to the PlasmaView, the system is set to the off state.
2. For instructions on using the computer's power management features, refer to the instructions for your computer.

The POWER/STANDBY LED at the front of the PlasmaView indicates the status of the power management function, as described in Table 4-2.

**Table 4-2. Power Management Indications**

Power management mode	POWER/STANDBY Indicator	Power management 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.
OFF	Red	Activated.	Horizontal and/or vertical synchronizing signals are not present from the computer.	Press a key on the keyboard or move the mouse. The picture reappears.

**Input Skip:** This setting affects the behavior of the **INPUT SELECT** button on the PlasmaView.

When set to ON, pressing **INPUT SELECT** allows you to choose only those inputs on which a valid signal is present. The other inputs are skipped.

**Sub. Picture:** Select Sub. Picture from the Function menu to change certain behaviors of the Picture-in-Picture, Zoom or Image Freeze features.

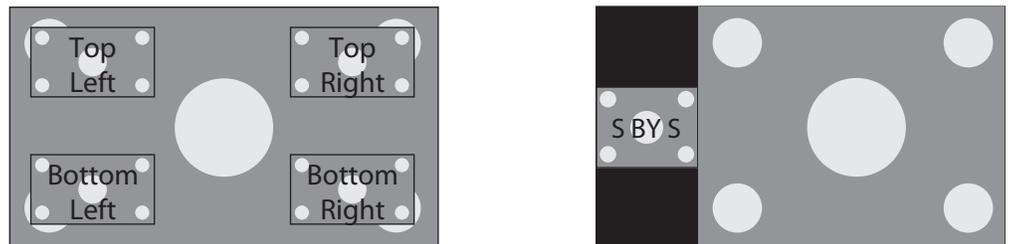


**Note**

1. The Picture-in-Picture, Zoom and Image Freeze functions are available only via serial commands or a third-party remote control unit that has been programmed to access these functions. For more information, refer to Section 6, Serial Communications, or contact Vidikron Technical Support .
2. The Zoom function is available only when the Aspect Ratio is set to 16:9 or 4:3.

- **Sub. P Detect (Picture-in-Picture mode):** When you set this to AUTO, the PlasmaView removes the black sub-picture frame from the screen approximately three seconds after the sub-picture input signal is lost in Picture-in-Picture mode. When you set this to OFF, the black frame remains on-screen regardless of the presence or absence of an input signal.
- **Display:** This item controls the manner in which the sub-window appears when you invoke Picture-in-Picture, Zoom or Image Freeze. FADE causes it to fade in gradually; NORMAL causes it to appear right away, with no transition.
- **Sub. P Rate:** This item controls the opacity of the sub-window when using Zoom, Image Freeze or Picture-in-Picture. Lower settings allow the main image to show through the sub-window (100% = no show-through).

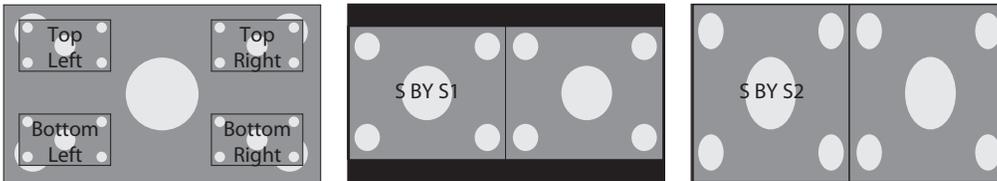
**Zoom Nav:** Select Zoom Nav from the Function menu to change the position of the small navigation window that appears when you invoke the Zoom feature. Select BTM LEFT, BTM RIGHT, TOP LEFT, TOP RIGHT or S BY S. Figure 4-8 shows the effect of each of these settings.



**Figure 4-7. Zoom Navigation Modes**

To hide the navigation window, select OFF. When you do, an icon appears in the center of the screen to indicate that you are in Zoom mode.

**Image Freeze:** Select Image Freeze from the Function menu to change the position of the still image sub-window that appears when you invoke Image Freeze. Select BTM LEFT, BTM RIGHT, TOP LEFT, TOP RIGHT, S BY S1 or S BY S2. Figure 4-8 shows the effect of each of these settings.



**Figure 4-8. Image Freeze Modes**

To disable Image Freeze altogether, select OFF.

**Pixel Protect:** Select Pixel Protect from the Function menu to configure the image burn-in prevention settings on the PlasmaView.

Set Pixel Protect to AUTO to have the PlasmaView use the following settings:

- Lum. Setting: AUTO
- Orbiter: AUTO1
- Inverse: OFF
- Image Sweep: OFF
- Soften: OFF
- OSD Orbiter: ON
- OSD Contrast: LEVEL 1

To customize these settings, set Pixel Protect to MANUAL and refer to the following paragraphs.

- **Lum. Setting:** Use this to activate the brightness limiter. When set to AUTO, the brightness of the screen is adjusted automatically to optimize picture quality.  
Select LEVEL 1, LEVEL 2 or LEVEL 3 to set the maximum brightness (black level) to 75%, 50% or 25% respectively of the peak level. (These values are approximate.)
- **Orbiter:** Select Orbiter from the PDP Protect menu to set the picture shift.
  - **OFF:** Orbiter mode does not function. This is the default setting when RGB is input.
  - **AUTO1:** The picture moves around the screen intermittently, making the picture smaller. This is the default setting when a Video or DVD/HD/DTV signal is input. Set to OFF when these signals are not used.
  - **AUTO2:** The picture moves around the screen intermittently, making the picture bigger.



**Note**

*When a Video or a DVD/HD/DTV signal is input, the AUTO1 and AUTO2 settings affect only the moving picture and do not change the image size.*

- **Inverse:** Select Inverse from the PDP Protect menu to set the inverse mode or to display a white screen.
  - **OFF:** Inverse/white mode does not function.
  - **ON:** The picture is displayed alternately between positive image and negative image.
  - **WHITE:** The entire screen turns white.
- **Image Sweep:** When Image Sweep is set to ON, a white vertical bar moves periodically from left to right across the screen, at a constant speed.
- **Soften:** Select Soften from the PDP Protect menu to reduce edges (color transitions) and soften the image.
  - **OFF:** Turns the SOFT FOCUS function off.
  - **1, 2, 3, 4:** Activates the SOFT FOCUS setting. Higher numbers create a “softer” image.



**Note**

*The Sharpness control (in the Picture Adjust menu) is disabled when you turn on the Soften feature.*

- **OSD Orbiter:** Select OSD Orbiter from the PDP Protect menu to enable OSD menu shift.
  - **ON:** The position of the menu is shifted by eight dots each time the OSD is displayed.
  - **OFF:** The OSD is always displayed at the same position.
- **OSD Contrast:** Select OSD Contrast from the PDP Protect menu to reduce the contrast of the OSD menus.
  - **LEVEL 1:** Reduced OSD contrast.
  - **LEVEL 2:** Normal OSD contrast.

**CC:** Select CC from the Function menu to control the display of closed captions when watching programs that contain them.

Select one of four captioning modes: CAPTION1, CAPTION2, CAPTION3 or CAPTION4. CAPTION1 usually contains the native-language captions; if a program is captioned in more than one language, those captions are carried on CAPTION2, CAPTION3 or CAPTION4.

The PlasmaView also supports “text mode” captioning; to use this feature, select TEXT1, TEXT2, TEXT3 or TEXT4. The text modes, instead of displaying a few lines of captions somewhere on the picture, take over all or half of the screen to display scrolling text information. (The text modes are seldom used today, so most of the time there is no information there to see.) The text field is sometimes used for embedding Internet data (called Interactive TV Links, or ITV Links) in the captions.

To hide the closed captions, set this option to OFF.

**CC Contrast:** Select CC Contrast from the Function menu to reduce the contrast of the closed captions.

- **LEVEL 1:** Reduced CC contrast.
- **LEVEL 2:** Normal CC contrast.

**Pwr. On Select:** Select Pwr. On Select from the Function menu to specify which input signal is displayed when you turn on the PlasmaView. You can also specify an initial audio volume level.

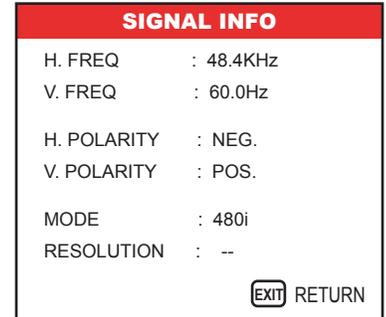
You can select a specific input or volume level (0 to 42). Or, select LAST to have the PlasmaView set the input and volume to what they were the last time it was turned off.



Select Signal Info from the Main menu to check the frequencies and polarities of the current input signal. (If RGB/PC is the current input, "MODE" is replaced by "MEMORY.")

Press **EXIT** to return to the Main menu.

◀ **Signal Info**



**Notes:**

# Maintenance and Troubleshooting

Table 5-1 provides some general guidelines for troubleshooting problems you may encounter with the PlasmaView. If the suggested solutions fail to resolve the problem or if you encounter an issue not described here, please contact your Vidikron dealer or Vidikron Technical Support.

## 5.1 Troubleshooting Tips

**Table 5-1. Troubleshooting Chart**

Symptom	Possible Cause(s)	Solution
The display does not turn on after initial installation.	<ul style="list-style-type: none"> <li>The PlasmaView is not plugged in or the AC outlet is not active.</li> <li>The remote control batteries have run out.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure that the PlasmaView is plugged in and that the AC outlet is active.</li> <li>Replace the batteries.</li> </ul>
The display is on, but there is no picture or sound.	<ul style="list-style-type: none"> <li>Incorrect source selection.</li> <li>Source component is not turned on.</li> <li>Source component is connected incorrectly or not at all.</li> </ul>	<ul style="list-style-type: none"> <li>Select the correct source.</li> <li>Turn on the source component.</li> <li>Check video and/or audio connections to source component.</li> </ul>
Picture is okay, but there is no sound.	<ul style="list-style-type: none"> <li>Audio output is muted.</li> <li>Volume setting is too low.</li> </ul>	<ul style="list-style-type: none"> <li>Press the <b>MUTE</b> button on the remote control.</li> <li>Turn up the volume.</li> </ul>
Image is too bright and/or lacks definition in the bright areas of the image.	<ul style="list-style-type: none"> <li>Contrast is set too high.</li> </ul>	<ul style="list-style-type: none"> <li>Lower the contrast setting.</li> </ul>
Image appears "washed out" and/or dark areas appear too bright.	<ul style="list-style-type: none"> <li>Brightness is set too high.</li> </ul>	<ul style="list-style-type: none"> <li>Lower the brightness setting.</li> </ul>
Colors in the image are swapped; for example, reds appear blue or vice versa.	<ul style="list-style-type: none"> <li>The Red/Pr, Green/Y or Blue/Pb outputs from the source are connected to the wrong inputs on the PlasmaView.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure that the source outputs are connected to the correct PlasmaView input.</li> </ul>
RGB-HD images appear "noisy."	<ul style="list-style-type: none"> <li>Clock and Phase (Fine Picture and Picture Adjust) settings need adjustment.</li> </ul>	<ul style="list-style-type: none"> <li>Manually adjust Fine Picture and Picture Adjust settings, or perform an Auto-Adjust (refer to <b>Auto Adjust (available only on PC/RGB Input)</b> on page 34).</li> </ul>

**Table 5-1. Troubleshooting Chart (continued)**

Symptom	Possible Cause(s)	Solution
"Out of range" appears on-screen.	<ul style="list-style-type: none"> <li>The resolution and frequency of the video card in the computer are not compatible with the PlasmaView.</li> </ul>	<ul style="list-style-type: none"> <li>Select a compatible resolution and vertical frequency (refer to <b>Computer/Video Signal Compatibility</b> on page 57).</li> </ul>
The image is too large or too small.	<ul style="list-style-type: none"> <li>Image size needs adjusting.</li> </ul>	<ul style="list-style-type: none"> <li>Adjust the image size (refer to <b>Image Options</b> on page 32).</li> </ul>

# Serial Communications

To interface the PlasmaView with a home theater automation/control system or a PC running terminal emulation software, connect it to your control system or PC as shown in Figure 3-4.

Configure the RS-232 controller or PC serial port as follows: odd parity, 8 data bits, 1 stop bit and no flow control. Set the baud rate 9600, to match that of the PlasmaView RS-232 port.

Serial command messages to – and response messages from – the PlasmaView are in hexadecimal format. A command/response message consists of the following:

1. The first command or response byte. In responses from the PlasmaView, the second character (lower-order four bits) of this byte is F to indicate a valid command (as in the example below); when the PlasmaView receives an invalid command, the second character is B.
2. Two bytes that identify the sender and receiver respectively of the message. 60 is the PlasmaView; 80 is the personal computer or control system.
3. The second command byte.
4. The amount of command data, in bytes (0 for commands that do not take arguments, such as Power On/Power Off; otherwise, 1 to 7 bytes).
5. The command data.
6. A **checksum**, calculated by adding all of the bytes in the message. The lower-order (least significant) eight bits – that is, the last two digits – of the result are sent as the checksum.

This is the command for selecting the DVD/HD1 input and the response from the PlasmaView:

## 6.1 RS-232 Connection and Port Configuration

## 6.2 Serial Command/Response Messages

◀ **Example**

Command (Byte 1)	Unit ID (Sender)	Unit ID (Receiver)	Command (Byte 2)	Command Data Length (Bytes)	Data	Checksum
DF	80	60	47	01	05	0C
(sum = 20C hex)						
Response (Byte 1)	Unit ID (Sender)	Unit ID (Receiver)	Response (Byte 2)	Response Data Length (Bytes)	Data	Checksum
3F	60	80	47	00	-	66
(sum = 166 hex)						

**Command List** ➤ Table 6-1 lists the RS-232 command set. Refer to Section 4, **Operation**, for detailed function descriptions. If you need further programming assistance, contact your Vidikron dealer or Vidikron Technical Support.

**Table 6-1. Serial Commands**

Function		Command				Command Data Length (Bytes)	Data				Checksum	
Power	ON	9FH	80H	60H	4EH	00H					CDH	
	OFF	9FH	80H	60H	4FH	00H					CEH	
Input Select	Video1 (RCA)	DFH	80H	60H	47H	01H	01H				08H	
	Video2 (S-Video)	DFH	80H	60H	47H	01H	02H				09H	
	DVD/HD1 (RCA)	DFH	80H	60H	47H	01H	05H				0CH	
	DVD/HD2 (RCA)	DFH	80H	60H	47H	01H	06H				0DH	
	DVD/HD3 (HDMI)	DFH	80H	60H	47H	01H	0EH				15H	
	PC/RGB (DB-15HD)	DFH	80H	60H	47H	01H	07H				0EH	
	DVD/HD4 (HDMI)	DFH	80H	60H	47H	01H	1AH				21H	
Audio Volume	0 (min) ... 42 (max)	DFH	80H	60H	7FH	03H	05H	01H	00H ... 2AH		47H (=0) ... 71H (=42)	
Audio Mute	ON	9FH	80H	60H	3EH	00H					BDH	
	OFF	9FH	80H	60H	3FH	00H					BEH	
Contrast	0 (min) ... 72 (max)	DFH	80H	60H	7FH	03H	01H	07H	CCH ... 14H		15H (=0) ... 5DH (=72)	
Brightness	0 (min) ... 64 (max)	DFH	80H	60H	7FH	03H	01H	08H	E0H ... 20H		2AH (=0) ... 6AH (=64)	
Sharpness	0 (min) ... 32 (max)	DFH	80H	60H	7FH	03H	01H	06H	F0H ... 10H		38H (=0) ... 58H (=32)	
Color	0 (min) ... 64 (max)	DFH	80H	60H	7FH	03H	01H	04H	E0H ... 20H		26H (=0) ... 66H (=64)	
Tint	0 (min) ... 64 (max)	DFH	80H	60H	7FH	03H	01H	05H	E0H ... 20H		27H (=0) ... 67H (=64)	
Video NR	OFF	DFH	80H	60H	C0H	01H	01H				81H	
	VIDEO NR1	DFH	80H	60H	C0H	01H	02H				82H	
	VIDEO NR2	DFH	80H	60H	C0H	01H	03H				83H	
	VIDEO NR3	DFH	80H	60H	C0H	01H	04H				84H	
Color Temp.	5400K 8500K 9300K 6500K	DFH	80H	60H	00H	01H	00H 01H 02H 03H				C0H C1H C2H C3H	
Gain/Offset (Red)	0 (min) ... 70 (max)	DFH	80H	60H	7FH	04H	01H	01H	D8H ... 1EH (Gain)		D8H ... 1EH (Offset)	F4H (=0/0) ... 80H (=70/70)

Table 6-1. Serial Commands (continued)

Function		Command				Command Data Length (Bytes)	Data				Checksum
Gain/Offset (Green)	0 (min) ... 70 (max)	DFH	80H	60H	7FH	04H	01H	02H	D8H ... 1EH (Gain)	D8H ... 1EH (Offset)	F5H (=0/0) ... 81H (=70/70)
Gain/Offset (Blue)	0 (min) ... 70 (max)	DFH	80H	60H	7FH	04H	01H	03H	D8H ... 1EH (Gain)	D8H ... 1EH (Offset)	F6H (=0/0) ... 82H (=70/70)
Cinema Mode	ON OFF	DFH	80H	60H	C1H	01H	01H 02H				82H 83H
Image Preset	STANDARD	DFH	80H	60H	0AH	01H	01H				CBH
	PRESET1	DFH	80H	60H	0AH	01H	02H				CCH
	PRESET2	DFH	80H	60H	0AH	01H	03H				CDH
	FACTORY	DFH	80H	60H	0AH	01H	04H				CEH
	PRESET3	DFH	80H	60H	0AH	01H	05H				CFH
Gamma	2.1 2.2 2.3 2.4	DFH	80H	60H	13H	02H	01H	00H 01H 02H 03H			D5H D6H D7H D8H
Dither	MODE1 MODE2	DFH	80H	60H	0CH	01H	01H 02H				CDH CEH
Black Level	NORMAL STEP1 STEP2	DFH	80H	60H	35H	01H	01H 02H 03H				F6H F7H F8H
ICC (Red)	0 (Y) ... 64 (M)	DFH	80H	60H	0DH	07H	00H ... 40H for each color component, followed by 00H. Calculate the checksum as described in <b>Serial Command/Response Messages</b> on page 45.  <b>Example:</b> 20H 20H 20H 20H 20H 20H 00H 93H (R) (G) (B) (Y) (M) (C) sets ICC to 32 for all six color components.				D4H
ICC (Green)	0 (Y) ... 64 (M)										
ICC (Blue)	0 (Y) ... 64 (M)										
ICC (Yellow)	0 (Y) ... 64 (M)										
ICC (Magenta)	0 (Y) ... 64 (M)										
ICC (Cyan)	0 (Y) ... 64 (M)										
ICC Reset All	--										
Bass	0 (min) ... +26 (max)	DFH	80H	60H	7FH	03H	05H	03H	F3H ... 0DH		3CH (=0) ... 56H (=+26)
Treble	0 (min) ... +26 (max)	DFH	80H	60H	7FH	03H	05H	04H	F3H ... 0DH		3DH (=0) ... 57H (=+26)
Balance	-22 (L) ... +22 (R)	DFH	80H	60H	7FH	03H	05H	02H	EAH ... 16H		32H (= -22) ... 5EH (=+22)

**Table 6-1. Serial Commands (continued)**

Function		Command				Command Data Length (Bytes)	Data				Checksum
Audio Setup (video input assignments)	Audio Input: AUDIO 1 AUDIO 2 AUDIO 3 DVD/HD3 (HDMI) DVD/HD4 (HDMI)	DFH	80H	60H	70H	02H	01H 02H 03H 04H 05H			33H (=01/01) ... 57H (=05/21)	
	Video Input: VIDEO1 VIDEO2 DVD/HD1 DVD/HD2 PC/RGB DVD/HD3 DVD/HD4 DVD/HD INPUT (HDMI) DVD/HD INPUT (AUDIO INPUT 1-3)						01H 02H 05H 06H 07H 0EH 1AH 20H  21H				
Aspect Ratio	INTELLIWIDE	DFH	80H	60H	51H	01H	02H			13H	
	LETTERBOX	DFH	80H	60H	51H	01H	03H			14H	
	4:3	DFH	80H	60H	51H	01H	04H			15H	
	16:9	DFH	80H	60H	51H	01H	05H			16H	
	CINEMA FILL	DFH	80H	60H	51H	01H	0AH			1BH	
V. Shift	-64 ... +64	DFH	80H	60H	7FH	03H	03H	01H	C0H ... 40H	05H (= -64) ... 85H (= +64)	
H. Shift	-128 ... +127	DFH	80H	60H	7FH	03H	03H	02H	80H ... 7FH	05H (= -128) ... 85H (= +127)	
V. Size	0 ... +64	DFH	80H	60H	7FH	03H	03H	07H	00H ... 40H	4BH (=0) ... 8BH (= +64)	
H. Size	0 ... +64	DFH	80H	60H	7FH	03H	03H	08H	00H ... 40H	4CH (=0) ... 8CH (= +64)	
Auto Adjust	ON OFF	DFH	80H	60H	7FH	03H	03H	09H	00H 01H	4DH 4EH	
Fine Picture (Phase)	0 ... +64	DFH	80H	60H	7FH	03H	03H	03H	00H ... 40H	47H (=0) ... 87H (= +64)	
Picture Adj. (Clock)	0 ... +128	DFH	80H	60H	7FH	03H	03H	04H	C0H ... 40H	08H (=0) ... 88H (= +128)	
HD Type	1035I 540P 1080I	DFH	80H	60H	8AH	01H	01H 02H 03H			4BH 4CH 4DH	
HDMI Black Level	LOW HIGH	DFH	80H	60H	8FH	01H	01H 02H			50H 51H	

**Table 6-1. Serial Commands (continued)**

Function		Command				Command Data Length (Bytes)	Data		Checksum
Video Standard	3.58 NTSC 4.43 NTSC PAL SECAM AUTO PAL60 PAL-M PAL-N	DFH	80H	60H	5CH	01H	01H 02H 03H 04H 0AH 0BH 0DH 0EH	1DH 1EH 1FH 20H 26H 27H 29H 2AH	
Background	BLACK GRAY	DFH	80H	60H	36H	01H	01H 02H	F7H F8H	
Sidebar Lev.	0 (min) ... 15 (max)	DFH	80H	60H	C6H	01H	00H ... 0FH	86H ... 95H	
S1/S2	AUTO OFF	DFH	80H	60H	89H	01H	01H 02H	4AH 4BH	
OSD Adjust	1 (TOP L.) 2 (TOP C.) 3 (TOP R.) 4 (BTM. L.) 5 (BTM. C.) 6 (BTM. R.)	DFH	80H	60H	1AH	02H	02H 01H 02H 03H 04H 05H 06H	DEH DFH E0H E1H E2H E3H	
ID Remote	ALL 1 2 3 4	DFH	80H	60H	2BH	01H	00H 01H 02H 03H 04H	EBH ECH EDH EEH EFH	
Factory	-	1FH	80H	60H	54H	00H		53H	
Auto Off	ON OFF	DFH	80H	60H	1AH	02H	03H 01H 02H	DFH E0H	
Input Skip	ON OFF	DFH	80H	60H	61H	01H	01H 02H	22H 23H	
Sub Picture - Sub P. Detect	OFF AUTO	DFH	80H	60H	7AH	01H	01H 02H	3BH 3CH	
Sub Picture - Sub P. Rate	20% 30% 40% 50% 60% 70% 80% 90% 100%	DFH	80H	60H	DAH	02H	01H 00H 01H 02H 03H 04H 05H 06H 07H 08H	9CH 9DH 9EH 9FH A0H A1H A2H A3H A4H	

**Table 6-1. Serial Commands (continued)**

Function		Command				Command Data Length (Bytes)	Data	Checksum
Zoom Nav	OFF S BY S BTM LEFT BTM RIGHT TOP LEFT TOP RIGHT	DFH	80H	60H	7BH	01H	01H 02H 03H 04H 05H 06H	3CH 3DH 3EH 3FH 40H 41H
Image Freeze (Mode)	OFF S BY S1 BTM LEFT BTM RIGHT TOP RIGHT TOP LEFT S BY S2	DFH	80H	60H	7CH	01H	01H 02H 03H 04H 05H 06H 07H	3DH 3EH 3FH 40H 41H 42H 43H
Image Freeze On/Off	FREEZE FREEZE OFF	DFH	80H	60H	7DH	01H	01H 02H	3EH 3FH

Table 6-1. Serial Commands (continued)

Function		Command				Command Data Length (Bytes)	Data				Checksum
Pixel Protect	Manual - Lum. Setting: AUTO LEVEL 1 LEVEL 2 LEVEL 3	DFH	80H	60H	6BH	03H	01H 02H 03H 04H				30H (=01/01/01) ... 37H (=04/03/03)
	Manual - Inverse: OFF INVERSE WHITE	DFH	80H	60H	6BH	03H	01H 02H 03H				
	Manual - Orbiter: AUTO 1 OFF AUTO 2	DFH	80H	60H	6BH	03H	01H 02H 03H				
	Manual - Image Sweep: ON OFF	DFH	80H	60H	C8H	04H	01H 02H	00H	FFH	01H	8CH 8DH
	Manual - Soften: OFF 1 2 3 4	DFH	80H	60H	65H	01H	01H 02H 03H 04H 05H				26H 27H 28H 29H 2AH
	Manual - OSD Orbiter: ON OFF	DFH	80H	60H	5FH	01H	01H 02H				20H 21H
	Manual - OSD Contrast: LEVEL 2 LEVEL 1	DFH	80H	60H	37H	01H	01H 02H				F8H F9H
CC Mode	OFF CAPTION1 CAPTION2 CAPTION3 CAPTION4 TEXT1 TEXT2 TEXT3 TEXT4	DFH	80H	60H	3CH	01H	00H 01H 02H 03H 04H 05H 06H 07H 08H				FCH FDH FEH FFH 00H 01H 02H 03H 04H
CC Contrast	LEVEL2 LEVEL1	DFH	80H	60H	3DH	01H	01H 02H				FEH FFH

**Table 6-1. Serial Commands (continued)**

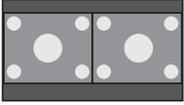
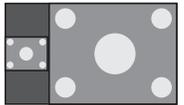
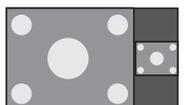
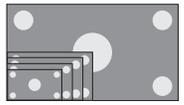
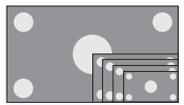
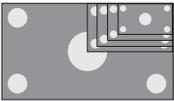
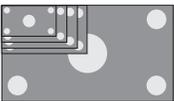
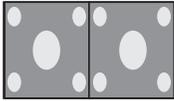
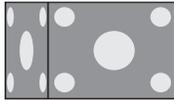
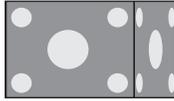
Function		Command				Command Data Length (Bytes)	Data				Checksum	
Pwr. On Select (Input)	LAST	DFH	80H	60H	63H	04H	00H	00H	01H	00H	27H	
	VIDEO1						01H				28H	
	VIDEO2						02H				29H	
	DVD/HD1						05H				2CH	
	DVD/HD2						06H				2DH	
	PC/RGB						07H				2EH	
	DVD/HD3						0EH				35H	
DVD/HD4					1AH				41H			
Pwr. On Select (Volume)	LAST	DFH	80H	60H	0FH	01H	A0H				6FH	
	0 (min) ... 42 (max)						00H ... 2AH				CFH (=0) ... F9H (=42)	
Side-By-Side / Picture-in-Picture	Single Screen	DFH	80H	60H	07H	01H	00H				C7H	
	S BY S1	DFH	80H	60H	07H		01H				C8H	
												
	S BY S2R	DFH	80H	60H	07H		01H	02H			C9H	
												
	S BY S2L	DFH	80H	60H	07H		01H	05H			CCH	
												
	PIP Bottom Left (four sizes)		DFH	80H	60H		07H	01H	03H			CAH
			DFH	80H	60H		07H	01H	06H			CDH
												
		DFH	80H	60H	07H	01H	08H			CFH		
PIP Bottom Right (four sizes)		DFH	80H	60H	07H	01H	04H			CBH		
		DFH	80H	60H	07H	01H	07H			CEH		
												
		DFH	80H	60H	07H	01H	09H			D0H		
		DFH	80H	60H	07H	01H	0BH			D2H		

Table 6-1. Serial Commands (continued)

Function		Command				Command Data Length (Bytes)	Data	Checksum
Side-By-Side / Picture-in-Picture (cont.)	PIP Top Right (four sizes) 	DFH	80H	60H	07H	01H	41H	08H
		DFH	80H	60H	07H	01H	42H	09H
		DFH	80H	60H	07H	01H	43H	0AH
		DFH	80H	60H	07H	01H	44H	0BH
	PIP Top Left (four sizes) 	DFH	80H	60H	07H	01H	45H	0CH
		DFH	80H	60H	07H	01H	46H	0DH
		DFH	80H	60H	07H	01H	47H	0EH
		DFH	80H	60H	07H	01H	48H	0FH
	S BY S3 	DFH	80H	60H	07H	01H	49H	10H
	S BY S4R 	DFH	80H	60H	07H	01H	4AH	11H
	S BY S4L 	DFH	80H	60H	07H	01H	4BH	12H
	SWAP PIP DISABLE PIP ENABLE S BY S ACTIVE L S BY S ACTIVE R PIP ACTIVE MAIN PIP ACTIVE SUB	DFH	80H	60H	07H	01H	10H A0H A1H 20H 21H 30H 31H	D7H 67H 68H E7H E8H F7H F8H

**Table 6-1. Serial Commands (continued)**

Function		Command				Command Data Length (Bytes)	Data	Checksum
Pwr. On Select (Multi-Screen Mode)	Power On Mode: LAST MULTI	DFH	80H	60H	33H	04H	01H 02H	Calculate the checksum as described in <b>Serial Command/Response Messages</b> on page 45.
	Power On Multi Mode Type: S BY S1 S BY S2R S BY S2L PIP Bottom Left PIP Bottom Right PIP Top Right PIP Top Left	DFH	80H	60H	33H	04H	01H 02H 03H 04H 05H 06H 07H	
	Left or Main Input:  VIDEO1 VIDEO2 DVD/HD1 DVD/HD2 PC/RGB DVD/HD3 DVD/HD4	DFH	80H	60H	33H	04H	01H 02H 05H 06H 07H 0EH 1AH	
	Right or Sub Input:  VIDEO1 VIDEO2 DVD/HD1 DVD/HD2 PC/RGB DVD/HD3 DVD/HD4	DFH	80H	60H	33H	04H	01H 02H 05H 06H 07H 0EH 1AH	

# Specifications

Table 7-1 lists the PlasmaView specifications.

## 7.1 PlasmaView Specifications

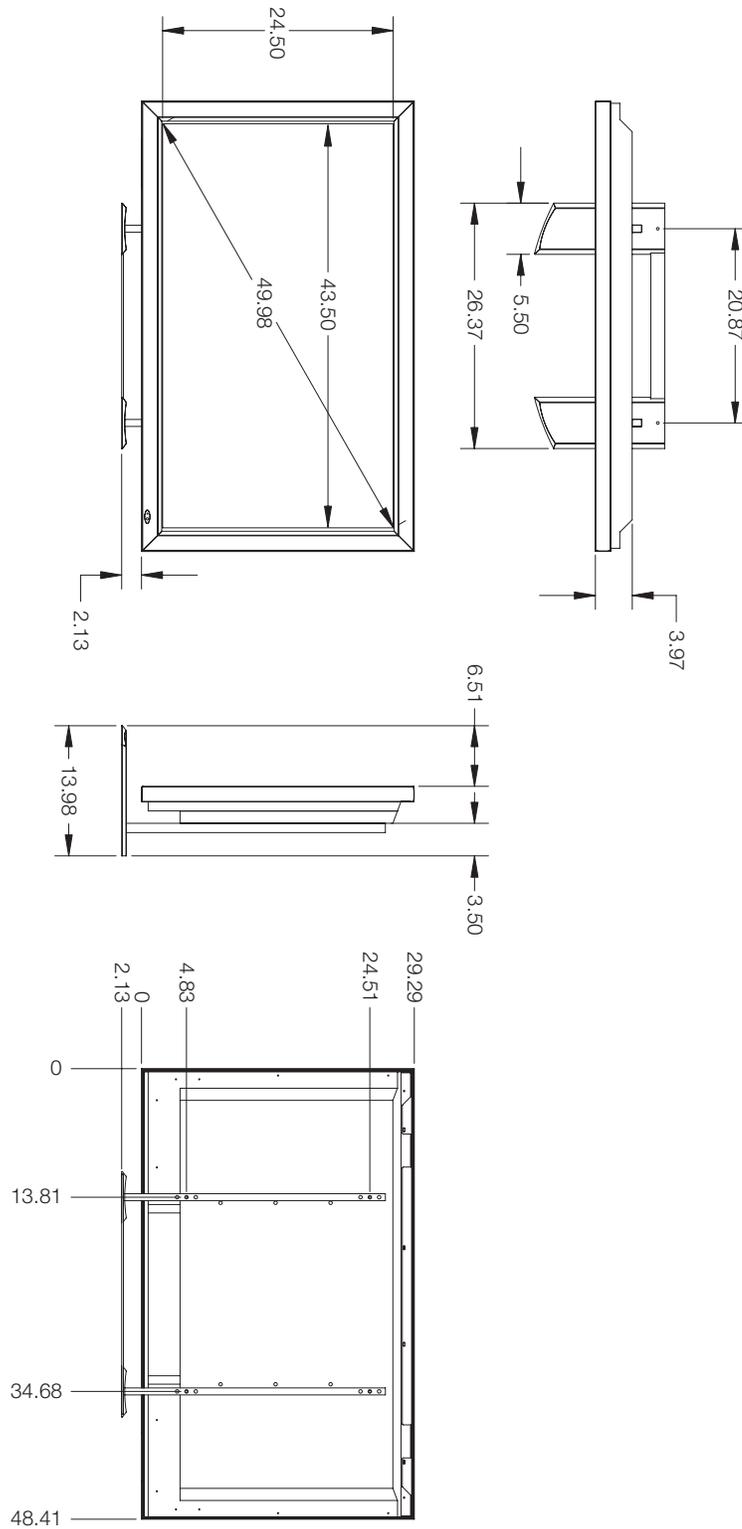
**Table 7-1. PlasmaView Specifications**

<b>Native Resolution:</b>	1365 x 768 WXGA
<b>Screen Size (diagonal):</b>	50 in.
<b>Active Screen Area:</b>	43.5 x 24.5 in. (1106 x 622 mm)
<b>Screen Aspect Ratio:</b>	16:9
<b>Available Aspect Ratios:</b>	4:3, Letterbox, 16:9, IntelliWide™, Cinema Fill
<b>DTV Compatibility:</b>	480i/p, 525i/p, 540p, 625i/p, 720p, 1035i, 1080i/p
<b>ISF Settings:</b>	Yes
<b>Data/Graphics Compatibility:</b>	Up to 1600 x 1200
<b>Inputs:</b>	(1) Composite, (1) S-Video, (2) HD Component, (2) HDMI 1.1 with HDCP, (1) RGB (15-pin D-sub), (3) Audio (stereo RCA pairs), (1) RS-232, (1) Wired IR (3.5-mm mini jack)
<b>Outputs:</b>	(1) Speaker Terminals (stereo pair), Wired IR (loop-through)
<b>Audio System:</b>	Internal amplifier Output Power = 9W RMS x 2
<b>Discrete IR Control:</b>	Source, power and aspect ratios
<b>Power Requirements:</b>	100 to 240 VAC, 50/60Hz
<b>Power Consumption (typical):</b>	350W
<b>Operating Environment:</b>	40°F to 95°F (5°C to 35°C); 20% to 80% humidity (non-condensing) Altitude -- up to 9,000 feet/2,740m (Model VP-5000a only)
<b>Dimensions:</b>	See Figure 7-1
<b>Weight (with Stand):</b>	97.9 lbs. (44.50 kg)
<b>Regulatory Approvals:</b>	Complies with FCC
<b>Limited Warranty:</b>	Three (3) years parts and labor from the date of delivery to the end user (except for plasma glass panel). Plasma Glass Panel: One (1) year parts and labor from the date of delivery to the end user.

**Specifications are subject to change without notice.**

## 7.2 PlasmaView Dimensions

Figure 7-1 shows the PlasmaView dimensions (all dimensions are in inches).



**Figure 7-1. PlasmaView Model VP-5000/VP-5000a Dimensions (with Table Stand)**

The PlasmaView can display video signals from a variety of computer sources via its RGB-HD and HDMI inputs.

Table 7-2 lists the signal types that are compatible with the PlasmaView, and indicates which of those are VESA standards.

### 7.3 Computer/Video Signal Compatibility

**Table 7-2. Computer/Video Signal Compatibility Chart**

Signal Type	Mode (Dots x Lines)	Vertical Frequency (Hz)	Horizontal Frequency (kHz)	Sync Polarity	
				Horiz.	Vert.
IBM	640x400	70.10	31.50	neg	neg
IBM	640x480	59.90	31.50	neg	neg
MAC		66.70	35.00	Sync on Green	
VESA		72.80	37.90	neg	neg
VESA		75.00	37.50	neg	neg
VESA		85.00	43.30	neg	neg
IBM		100.40	51.10	neg	neg
IBM		120.40	61.30	neg	neg
IBM		720x400	70.10	31.50	neg
VESA	85.10		37.90	neg	pos
VESA	800x600	56.25	35.20	pos	pos
VESA		60.30	37.90	pos	pos
VESA		72.20	48.10	pos	pos
VESA		75.00	46.90	pos	pos
VESA		85.10	53.70	pos	pos
IBM		99.80	63.00	pos	pos
IBM		120.00	75.70	pos	pos
MAC		832x624	74.60	49.70	Sync on Green
IBM	848x480	60.00	31.00	pos	pos
IBM	852x480	60.00	31.70	neg	neg

**Notes:**

1. The PlasmaView may not be able to display images from notebook computers in simultaneous (CRT/LCD) mode. Should this occur, switch the notebook computer to "CRT only" mode. If you are unsure how to do this, refer to your notebook computer's user manual.

2. All modes other than the native resolution (1365x768) are scaled up or down to that resolution.

**Table 7-2. Computer/Video Signal Compatibility Chart (continued)**

Signal Type	Mode (Dots x Lines)	Vertical Frequency (Hz)	Horizontal Frequency (kHz)	Sync Polarity	
				Horiz.	Vert.
VESA	1024x768	60.00	48.40	neg	neg
SGI		60.00	49.70	--	--
VESA		70.10	56.50	neg	neg
MAC		74.90	60.20	Sync on Green	
VESA		75.00	60.00	pos	pos
VESA		85.00	68.70	pos	pos
IBM		100.00	80.50	neg	neg
IBM	1280x768	56.20	45.10	pos	pos
SGI	1280x1024	60.00	63.90	--	--
IBM	1280x1024	60.00	64.00	pos	pos
HP	1280x1024	72.00	81.10	--	--
IBM	1280x1024	75.00	80.00	pos	pos
SUN	1280x1024	76.10	81.10	Composite sync	
IBM	1280x1024	85.00	91.10	pos	pos
IBM	1280x1024	100.10	108.50	pos	pos
IBM	1360x768	60.00	47.70	pos	pos
IBM	1400x1050	60.00	65.30	neg	pos
IBM	1400x1050	75.00	82.30	neg	pos
IBM	1400x1050	85.00	93.90	neg	pos

**Notes:**

- The PlasmaView may not be able to display images from notebook computers in simultaneous (CRT/LCD) mode. Should this occur, switch the notebook computer to "CRT only" mode. If you are unsure how to do this, refer to your notebook computer's user manual.*
- All modes other than the native resolution (1365x768) are scaled up or down to that resolution.*



RUMA-011235  
rev. 05-11-07 v2.0



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SERIAL NUMBER

