

## 8 Standard Accessories

Accessories Supplied with the V-RD171P-HDA:

- Users manual
- “Brick” type 12VDC power supply, Part #: V-PS12-5V-1



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## V-RD171P-HDA Users Guide



## 9 Warranty

Marshall Electronics warrants to the first consumer, that this V-R171P-HDA 17 inch LCD rack mounted monitor will, under normal use, be free from defects in workmanship and materials, when received in its original container, for a period of one year from the purchase date.

This warranty is extended to the purchasing end user only and proof of purchase is necessary to honor the warranty. If there is no proof of purchase provided with a warranty claim, Marshall Electronics reserves the right not to honor the warranty set forth above. Therefore, labor and parts may be charged to you.

This warranty does not apply to product exterior and cosmetics. Misuse, abnormal service or handling, improper alterations or modifications in design or construction, voids this warranty. No sales personnel of the seller, nor any other person is authorized to make any warranties other than those described above, or to extend the duration of any warranties on behalf of Marshall Electronics, beyond the time period described above.

An extra note about LCD displays: It is considered normal for a minimal amount of pixels, not to exceed three, to fail on the periphery of the display active viewing area. Marshall Electronics has the option to reserve service for display pixel failure if deemed unobtrusive to effective use of the monitor by our technicians.

Due to constant effort to improve products and product features, specifications may change without notice.

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## 1 Product Overview

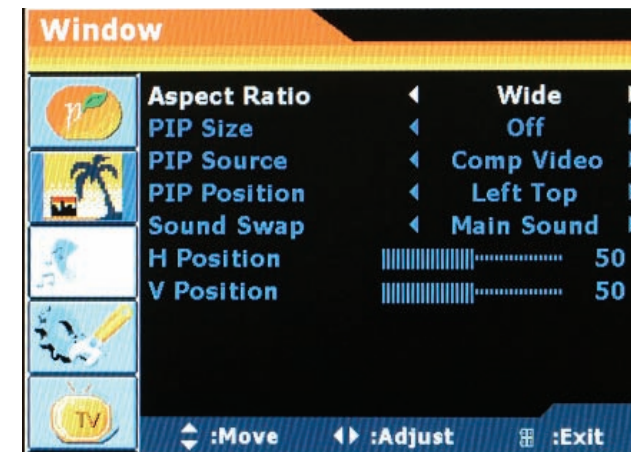
The V-RD171P-HDA is a rack-mounted monitor in a drawer with a 17", 5:4 aspect ratio active matrix LCD/TFT module and is designed to collapse into an EIA standard 19" rack and occupies 1RU high (1.75-inch) space when not in use. The display will produce a high-resolution 1280H x 1024W SXGA image from a computer or display scaled video images. Component video, Composite video or Y/C (S-video) images are displayed via a scaling chip with a separate DVI-D and VGA inputs for video or computer. For ease of operation the V-RD171P-HDA includes front mounted selector buttons for menu operations with On Screen Menu Display (OSD). When the display is closed into the drawer, a keyed lock is provided for secure transport. A U.L. Class 2 power supply is included and the unit is factory ready for rack mount installation.

## 2 Features

- SXGA Resolution 1280 x 1024 pixels, 1.3 million total RGB pixels produce 16.7 million colors
- Bright 300 candle luminance
- 500:1 Contrast ratio
- Ultra-compact design fits in EIA standard rack 1U high
- Automatic Gamma Correction
- 16:9 or 4:3 aspects
- 4 Preset color temperatures
- NTSC/PAL operation
- 170° CRT style viewing angles
- Picture In Picture
- Key lock for secure transportation

## 3 Specifications

<b>Display (Viewing Area)</b>	17" (13.30" x 10.64") (337.92mm x 270.34mm)
<b>Screen Format</b>	5:4
<b>Resolution (Dots)</b>	1280H x 1024V
<b>Dot Pitch</b>	0.264 square pixel
<b>Screen Treatment</b>	Anti-Glare and Anti-scratch Hard Coat
<b>Brightness (in cd/m<sup>2</sup>)</b>	300 cd/m <sup>2</sup>
<b>Pixel Response</b>	13ms Maximum - Black to White to Black (3ms rise, 10 ms decay)
<b>Viewing Angle</b>	75° to 85° From Center
<b>Backlight</b>	CCFL 50,000 hour
<b>Contrast Ratio</b>	500:1
<b>System</b>	NTSC / PAL
<b>Inputs</b>	1 S-Video (4 Pin Mini Din), 1 Composite (BNC), 1 SXGA (15P HD-15), Component Video (3 BNC), DVI-D (Digital only)
<b>Dimensions (open)</b>	14.1"H x 19"W x 25.6"D
<b>Approx. Weight</b>	28.5 Lbs
<b>Power Consumption</b>	12 VDC from included power supply (70Watt Max)
<b>Operating Temperature</b>	0°C to 50°C (Storage -20°C to +60°C)



### WINDOW

Use UP/DOWN/LEFT/RIGHT buttons to select function.  
**ASPECT RATIO** -  
 Select **Fill All** to place image on the entire screen.  
 All video images will appear distorted  
 Select **WIDE** for 16:9 Aspect  
 Select **ZOOM 1** or **ZOOM2** for different zoom option  
**PIP FUNCTIONS** - Used with PC/DVI/DTV selected as source to add a window for video input. (PIP SOURCE)

### Inputs Specifications

Input	Signals	Specification
VGA in	Analog PC	H Frequency Range: 20 ~ 82 kHz
		V Frequency Range: 55 ~ 90 Hz
		Maximum Resolution: 1280x1024 75Hz
		Maximum Pixel Rate: 135 MHz
		DTV mode support: 720p/60, 1080i/60
DVI in	Digital PC (DE Mode)	H Frequency Range: 20 ~ 82 kHz
		V Frequency Range: 55 ~ 75 Hz
		Maximum Resolution: 1280x1024 75Hz
		Maximum Pixel Rate: 135 MHz
		DTV mode support: 720p/60, 1080i/60
Video in	CVBS	NTSC-M
		PAL-B/G/H/I
		SECAM
S-Video in	Y/C	NTSC-M
		PAL-B/G/H/I
		SECAM
Component Video in YPbPr	DVD Component	480i/60, 480i/50
		1080i/60
	DTV Component	720p/60
		480p/60

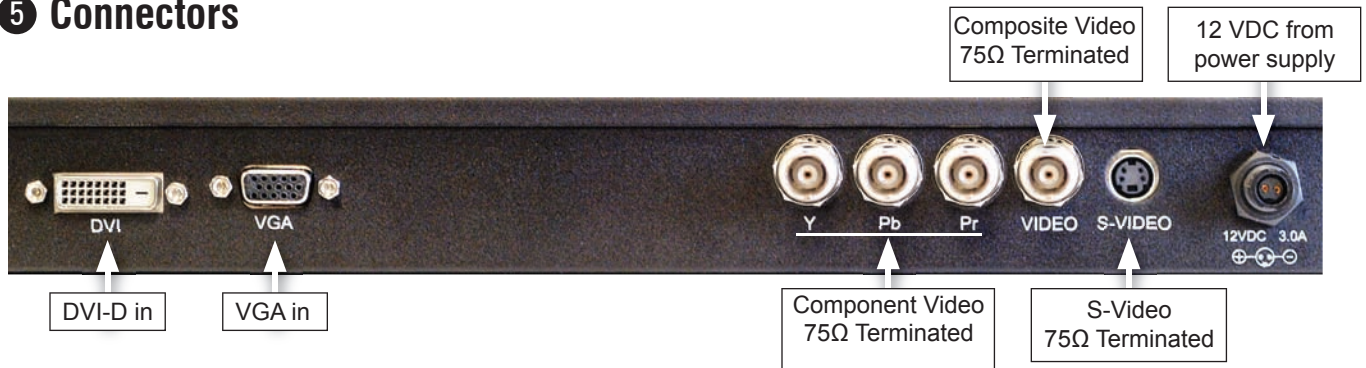
### PC Formats supported from VGA and DVI connectors

Resolution	H Frequency (kHz)	V Frequency (Hz)	Pixel Frequency (MHz)	Resolution	H Frequency (kHz)	V Frequency (Hz)	Pixel Frequency (MHz)
640x400	37.861	85.08	31.5	800x600	53.674	85.061	56.25
640x350	31.469	70.087	25.175	1024x768	48.780	60.001	64.11
640x350	37.861	85.08	31.5	1024x768	48.363	60.004	65.0
640x480	31.469	59.94	25.175	1024x768	56.476	70.069	75.0
640x480	35.000	66.667	30.24	1024x768	57.703	72.039	78.476
640x480	34.940	69.884	28.513	1024x768	60.030	75.029	78.75
640x480	37.861	72.809	29.765	1024x768	68.677	84.997	94.5
640x480	37.500	75.0	31.5	1280x720	47.760	60.0	74.481
640x480	43.269	85.008	36.0	1280x768	47.700	60.0	80.136
720x400	31.469	70.087	28.322	1280x768	60.150	75.0	102.977
720x400	37.927	85.039	35.5	1280x960	60.000	60.0	102.104
800x600	35.156	56.25	36.0	1280x960	59.640	60.0	102.104
800x600	37.879	60.317	40.0	1280x1024	63.337	59.978	108.18
800x600	43.764	70.02	45.513	1280x1024	63.981	60.02	108.0
800x600	48.077	72.188	50.0	1280x1024	64.754	60.06	108.992
800x600	46.875	75.0	49.5	1280x1024	63.600	60.0	108.883

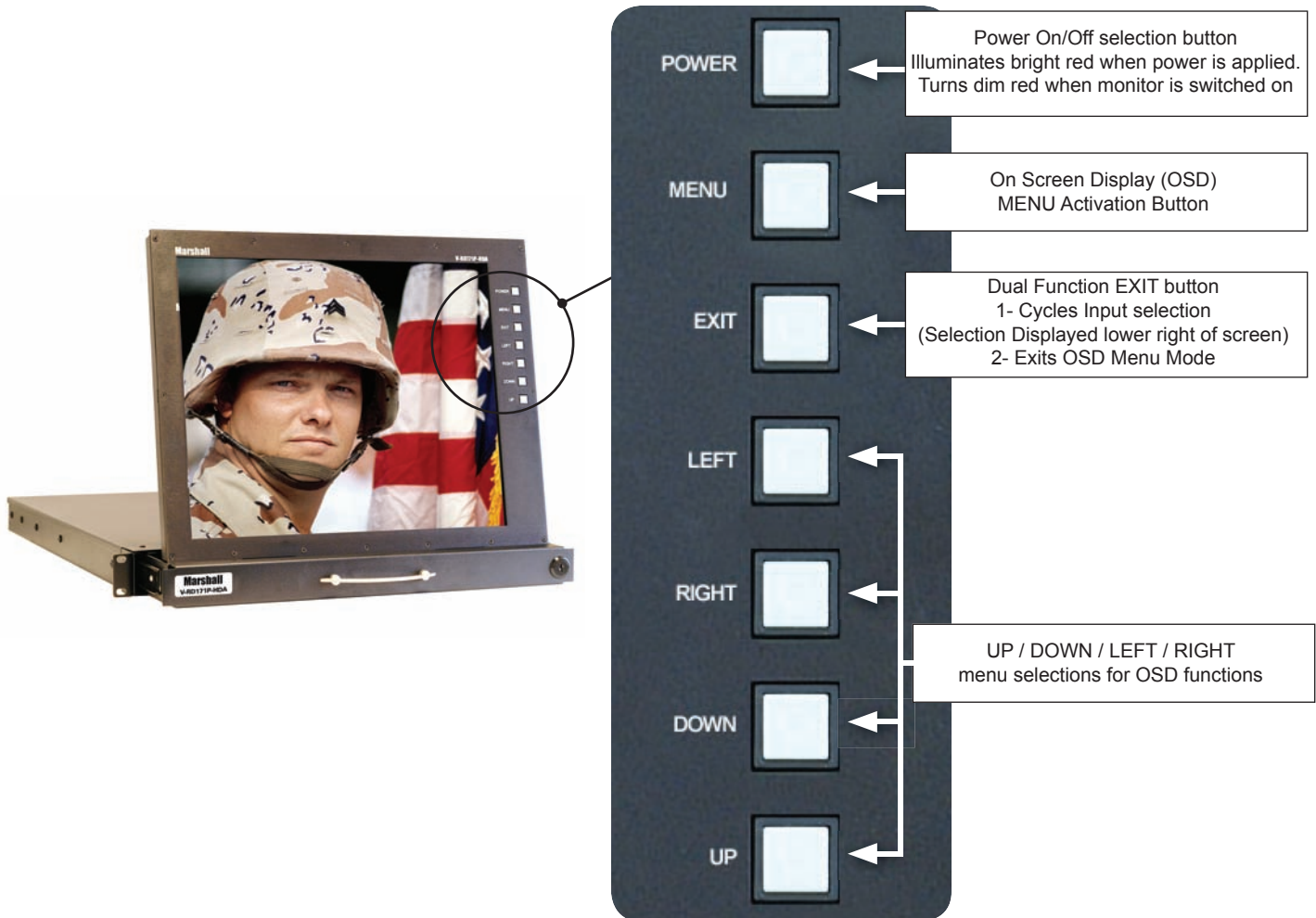
## 4 Operational Setup

1. Unpack the V-RD171P-HDA and accompanying power supply. Physically inspect for any damage that may have occurred during shipping. Should there be any damage, immediately contact Marshall Electronics at 800-800-6608. If you are not located within the continental United States call +1 310-333-0606.
2. Install in your desired location.
3. Connect required cables for signal input and output.
4. Attach power connector from power supply to the back of the unit.
5. Plug the power supply into the A.C. source
6. Turn on the V-RD171P-HDA by pressing the power switch located on the front of the unit.  
Refer to picture below for location of switch settings.
7. Perform input selections and screen adjustments as detailed in the following sections of this document.

## 5 Connectors



## 6 Front Panel Indicators and Controls





## 7 Menu Functions

**Note:** Menu may be activated if signal on the selected input is detected.

Menu functions are different for the selected inputs.

MENU select will toggle through 5 menus, FUNCTION, PICTURE, AUDIO (NOT USED), TV-SETUP and WINDOW



### Function Menu

Use **UP/DOWN/LEFT/RIGHT** buttons to select function.

**LANGUAGE**-English, French, Spanish

**AUTO ADJUST**- Used for PC and DVI signals to auto fit image to screen.

**OSD TIME-OUT** - Set time in seconds (0 to 60) for OSD to drop from screen after last button push

**SLEEP TIMER**- Used to automatically turn monitor off after programmed delay



### Picture Menu

Use **UP/DOWN/LEFT/RIGHT** buttons to select function.

**PSM** - (Picture Status Memory) Used only with video signals.

Select one of four choices

**STANDARD**- Default brightness, contrast and color.

**DYNAMIC**- Brightness, contrast and color adjusted for changes in source video.

**CINEMA**- Brightness, contrast and color adjusted for viewing in a darkened environment.

**CUSTOM**- User defined picture adjustment.

**COLOR TONE**- Select from four presets or create a user defined color temperature.

STANDARD- 6900° Kelvin

CUSTOM- User defined

WARM 1- 6500° Kelvin

COOL 2- 7500° Kelvin

WARM 2- 6100° Kelvin

COOL 1- 7200° Kelvin



### TV SETUP

Use **UP/DOWN/LEFT/RIGHT** buttons to select function. SEARCH AND TUNE FUNCTIONS ARE NOT USED ON THE V-R171P-HDA

Use CCD functions for VIT close caption display