

11 Standard Accessories

Accessories Supplied with the V-R151P-4A

- Users manual
- “Brick” type 12vdc power supply with 4 Pin Female XLR connector
- “V” Mount battery adapter
- VESA 75 Mount

12 Optional Accessories

Desk Stand - VP-LCD171H-ST-01 - Use for Desk Top

13 Warranty

Marshall Electronics warranties to the first consumer, that this V-R151P-4A 15 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.

Marshall Electronics

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V-R151P-4A Users Guide

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1 Product Overview

The V-R151P-4A is a rack-mounted monitor with a 15", 4:3 aspect ratio active matrix LCD/TFT module. Mounting can also be achieved via a VESA 75 reinforced mount point on the rear of the unit or with the included rack ears. The display will produce a high-resolution 1280W x 1024H SXGA image from a computer with Analog RGBHV outputs plus DVI-Digital or display scaled video images. Component, Composite Video or Y/C (S-video) images are displayed via a proprietary internal scaling LSI. The unit is designed to fit into an EIA standard 19" rack and occupies 6RU of space. For ease of operation the V-R171P-4A includes front mounted selector buttons for menu operations with On Screen Menu Display (OSD) and "ON AIR" tally. A U.L. Class 2 power supply is included and the unit is factory ready for rack mount installation.

2 Features

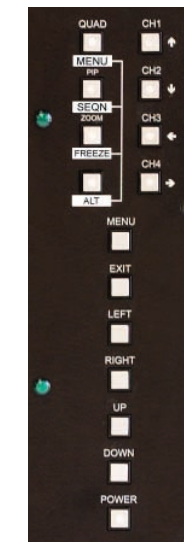
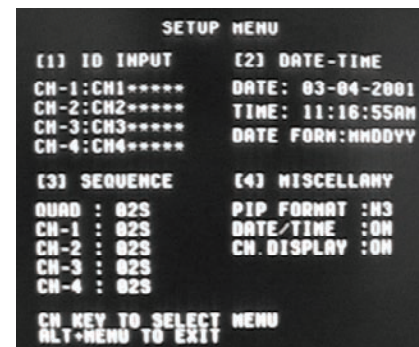
- XGA Resolution 1280 x 1024 pixels, 3.93 million total RGB pixels produce 16.7 million colors
- 300 candela per meter² luminance
- Compact design fits in EIA standard rack 8U high
- VESA 75 mount for wall, ceiling or desk top
- Automatic Gamma Correction
- 16:9 or 4:3 aspects
- Self-powered tally system for 4 Video Inputs
- NTSC/PAL Factory Configuration
- 1500 CRT viewing angles
- 12 VDC 4-pin XLR power connector with external power supply

3 Specifications

Display (Viewing Area)	15" Diagonal
Resolution (Pixels)	1024H x 768V
Screen Format	4 x 3
Screen Treatment	Anti-Glare and Anti-scratch Hard Coat
Dot Pitch	0.264 square pixel
Pixel Response	13ms Maximum - Black to White to Black (3.5ms rise, 9.5 ms decay)
Viewing Angle	80° (D) From Center
Brightness (in cd/m ²)	300 cd/m ²
Color Temp	D-65
Color Gamut	SMPTE/EBU
Backlight	CCFL 50,000 hour
Contrast Ratio	500:1
Video Inputs System	NTSC or PAL Factory Configured
TV Tuner System	NTSC
Inputs	YPrPb Component (3 BNC), Composite Video (4BNC) S-Video (Y/C) (4 Pin Mini Din female), sXGA 15Pin HD-15 Female DVI 27 (Pin DVI-I Female), Tally (HD-15 Female)
Rack Mount Dimensions	19.12"W x 10.5"H x 2.5"D (48.5cm x 26.7cm x 6.35cm)
Desk Top Dimensions	17"W x 13"H x 2.5"D (40.6cm x 35cm x 6.35cm)
Approx. Weight	13 lbs (5.9kg)
Power Consumption	70Watt Max 12 VDC from included power supply (V-PS12-5V1(XLR))
Operating Temperature	0°C to 50° C (Storage -20°C to +60°C)
Compliance	FCC-Class A, ANSI-63.4 (Certificates on file)
RoHS WEEE/Environmental	Do not dispose. Return to Manufacturer or Authorized Recycle Facility

4 Setup

1. Unpack the V-R151P-4A 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 connection from power supply to the back of the unit.
5. Plug the power supply into the A.C. source
6. Turn on the V-R151P-4A by depressing the power switch located on the front of the unit.
7. Perform input selections and screen adjustments as detailed in following sections of this document



8 PC Formats supported from VGA and DVI connectors

Resolution	H Frequency (kHz)	V Frequency (Hz)	Pixel Frequency (MHz)
640x480	31.469	59.94	25.175
640x480	35.000	66.667	30.24
640x480	34.940	69.884	28.513
640x480	37.861	72.809	29.765
640x480	37.500	75.0	31.5
720x400	31.469	70.087	28.322
800x600	35.156	56.25	36.0
800x600	37.879	60.317	40.0
800x600	43.764	70.02	45.513
800x600	48.077	72.188	50.0
800x600	46.875	75.0	49.5
1024x768	48.780	60.001	64.11
1024x768	48.363	60.004	65.0
1024x768	56.476	70.069	75.0
1024x768	57.703	72.039	78.476
1024x768	60.030	75.029	78.75
1280x720	47.760	60.0	74.481
1280x768	47.700	60.0	80.136
1280x768	60.150	75.0	102.977

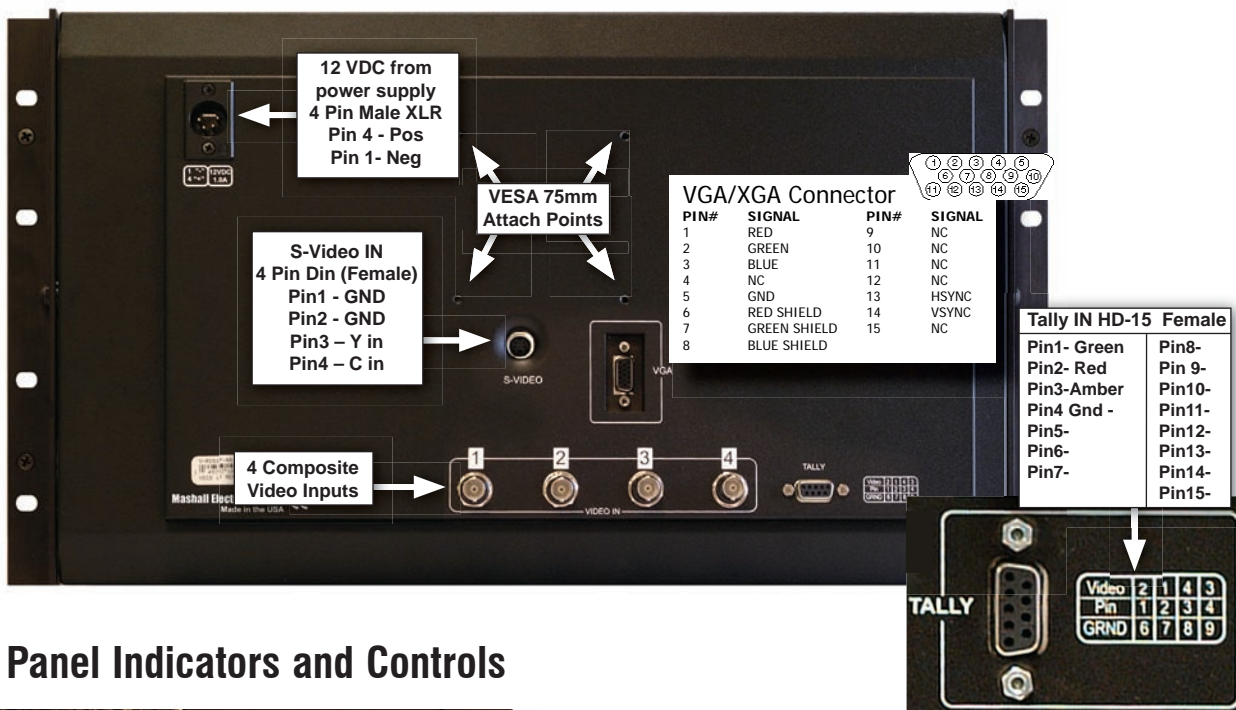
9 Video Formats Supported By Component and DVI Inputs

720x480 Interlaced	15.735	60/59.94	13.500
720x576 Interlace	15.735	50.0	13.595
480 Progressive		60	27
720 Progressive		60	74.25
1080 Interlace		60	74.25

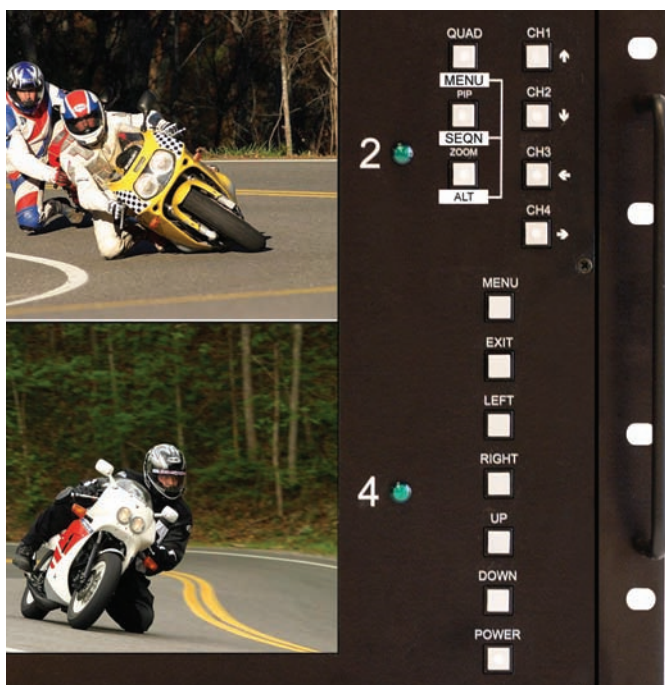
10 Video Formats Supported By Composite and S-Video Inputs

720x480 Interlaced	15.735	59.94	13.500
720x576 Interlaced	15.735	50.0	13.595

5 Connectors



6 Front Panel Indicators and Controls



7 Menu Functions *Note: MENU select will toggle through 5 menus, PICTURE, SCREEN, FUNCTION, SOURCE and TV*

1. Picture Menu (Use UP/DOWN/LEFT/RIGHT buttons to select function)



	YPrPb	S-Video	Video	PC	DVI
Brightness	✓	✓	✓	✓	✓
Contrast	✓	✓	✓	✓	✓
Sharpness	✓	✓	✓		
Tint	✓	✓	✓		
Phase				✓	✓
Color	✓	✓	✓		
Color temp				✓	✓

2. Function Menu (Use UP/DOWN/LEFT/RIGHT buttons to select function)



	YPrPb	S-Video	Video	PC	DVI
Auto Configure				✓	✓
DPMS		✓	✓	✓	✓
Reset	✓	✓	✓	✓	✓
OSD Time Out	✓	✓	✓	✓	✓
Sleep Timer	✓				
Language					

AUTO Configure – Used for PC signals to auto fit image to screen.

DPMS – When selected to ON, the Digital Power Management System will place the monitor into standby when there is no input signal for 12 seconds and will automatically turn on the monitor when a signal is applied to the last selected source.

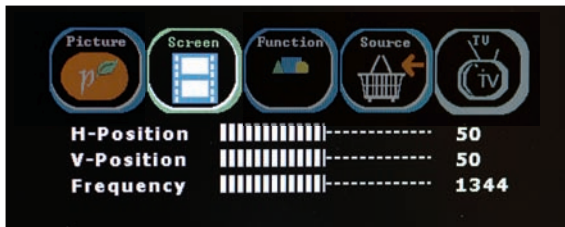
Reset – Restores the monitor to factory settings

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

Language – Not Used

3. Screen Menu (Use UP/ DOWN/ LEFT/ RIGHT buttons to select function)



	YPrPb	S-Video	Video	PC	DVI
H-Position				✓	✓
V-Position				✓	✓
Frequency				✓	✓

V-Position – Use LEFT and RIGHT buttons to adjust horizontal position of the PC Image

H-Position – Use LEFT and RIGHT buttons to adjust vertical position of the PC Image

Frequency – Use LEFT and RIGHT buttons to adjust the pixel clock width of the PC Image

4. Source Menu (Use UP/ DOWN/ LEFT/ RIGHT buttons to select function)



	YPrPb	S-Video	Video	PC	DVI
Analog RGB (PC)	✓	✓	✓	✓	✓
Composite Video	✓	✓	✓	✓	✓
S-VHS Video	✓	✓	✓	✓	✓
YPrPb	✓	✓	✓	✓	✓

Analog RGB – Select the on screen source display to be from the HD-15 PC connector on the rear of the unit.

Composite Video – Select the on screen source display to be from the 4 BNC(Video) connectors on the rear of the unit.

S-VHS Video – Select the on screen source display to be from the 4 Pin S-Video Connector

YPrPb – Select the on screen display to be from the component 3 BNC YPrPb connectors

DVI – Select the on screen display to be from the DVI Digital Connector

5. Alternate Menu Functions

Menu is shown by holding down ALT and then pressing the MENU button. (ALT+MENU).

Function selection and cursor movement is performed with the source selection buttons.