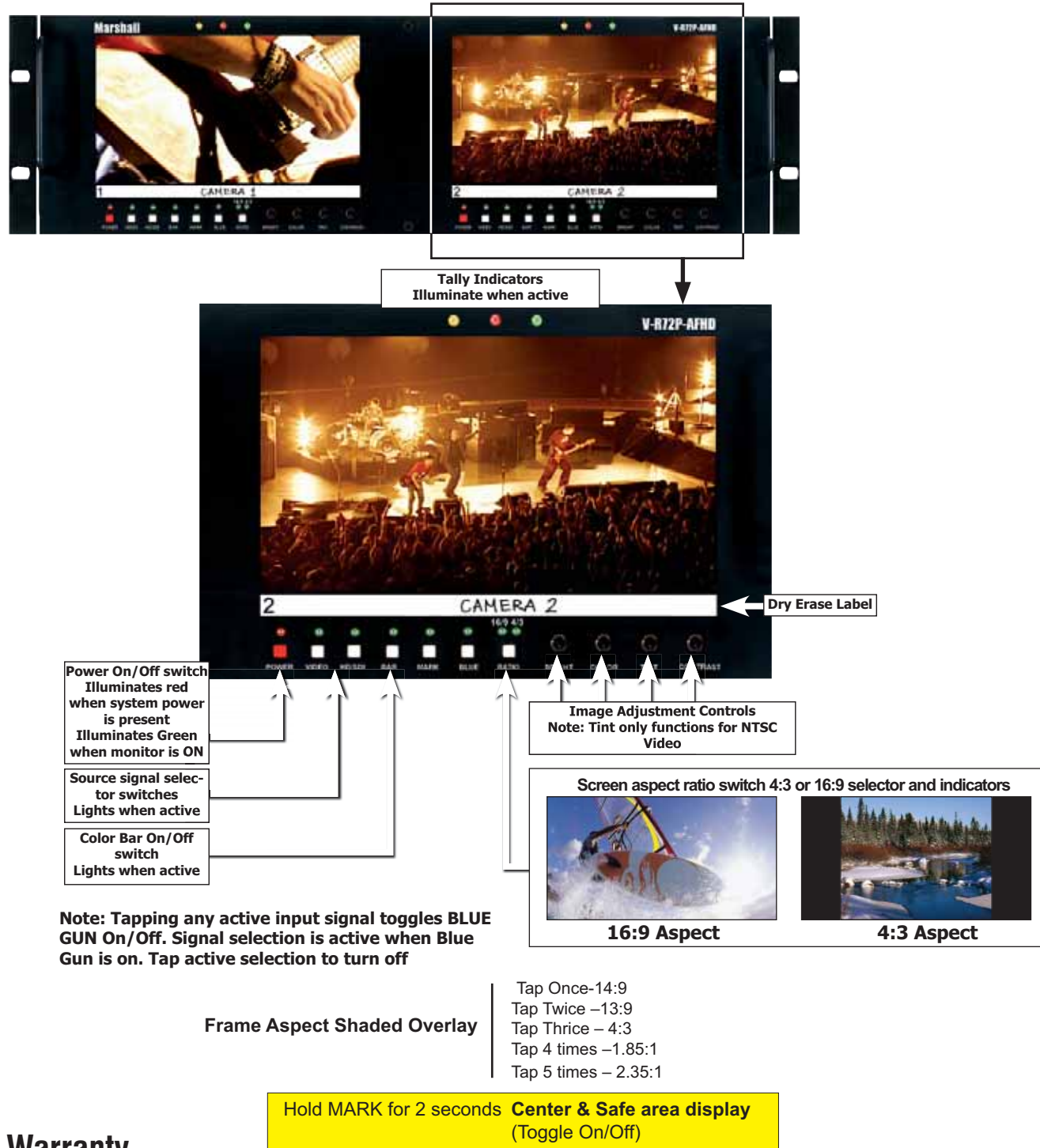


7 Switch Settings, Adjustments and Indicators



8 Warranty

Marshall Electronics warrants to the first consumer, that this V-R72P-AFHD Dual 7-inch LCD rack mounted monitor set 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-R72P-AFHD Users Guide

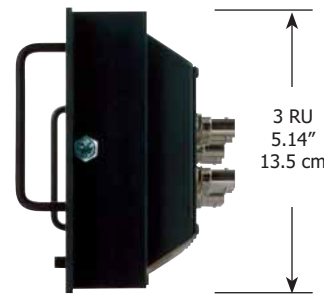
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1 Product Overview

The Rack mounted and tiltable **V-R72P-AFHD** represents leading edge technology in LCD imaging for broadcast and professional video applications featuring High Resolution, 1.2 megapixel, TFT screens with completely digital signal processing. NTSC and PAL composite video standards and signal types are accepted and displayed on each screen of this model. Analog signals are digitized using an advanced 10 bit process on each signal path with 4x over sampling and adaptive 5 line comb filter with exacting color space conversion. All video formats are scaled to fit on screen in the highest resolution using a state of the art LSI that incorporates 4x4 pixel interpolations with precision Gamma correction to produce the best images available.

2 Features

- **HDSI (SMPTE292M/296M) With reclocked and shaped output**
- **SDI (SMPTE259M) (ITR-U601) With reclocked and shaped output**
- **Composite PAL/NTSC (ITU-R BT.470/SMPTE170M)**
- **Active loopthrough is available for all analog signals**
- **Remote control options (Available Summer 2005)**
- **Small Footprint – occupies only 3RU of a standard EIA 19 inch rack**
- **Ready to mount – all brackets are factory installed**
- **Lightweight – 75% lighter than CRT models**
- **All adjustments and selections are readily available. No menus!**
- **Settings memory restores active state with power off/on cycle**
- **Easy to use front panel selection of inputs**
- **NTSC or Pal operation with automatic signal format detection**
- **On Screen Framing Markers in 16:9 mode**
- **Center Mark and Reticule**
- **All inputs automatically terminate**
- **Built in color bar generator for each display**
- **Includes V-PS12-5V-1 Universal power supply (U.L. class 2)**
- **Three LEDs (Red, Green, Amber) produce 7 different tally indications**
- **Unique 180 degree tilt adjustment**
- **Dry erase label for each screen**



Analog and Digital Screen Formats and Frame Rates

All signal types and frame rates are automatically detected

- **525 –60i / 625 - 50i (Interlaced NTSC/PAL Composite and SDI Digital)**
- **720 x 486P (Progressive)**
- **720 x 576P (Progressive)**
- **720 x 1280 – Analog-50P, 59.94P, 60P / Digital 23.97P, 24P, 25P, 50P, 59.94P, 60P (Progressive)**
- **1035 x 1920 - 59.94i, 60i (Interlaced)**
- **1080 x 1920 – 50i, 59.94i, 60i / 23.973Psf, 24Psf, 25Psf, 29.97Psf, 30Psf**

Psf=Progressive or Segmented Frame formats

3 Electrical Specifications

Number of Screens	2
Screen Aspect	16:9 / 4:3 switchable
Display (Viewing Area)	7" (6.14"H x 3.27"V) (156.0mm x 83.28mm)
Viewing Angles	130° H x 120° V
Resolution (Dots)	800H x RGB x 480V (1.2 million pixels)
Dot Pitch	0.065 mm (W) x 0.175 (H)
Pixel Response	<30ms
Contrast Ratio	400:1
Brightness (in cd/m ²)	380 cd/m ²
System	NTSC/PAL auto recognition for standard definition signals
Inputs per display	Composite with active loop (BNC) Y/C (S-Video) with active loop (4 Pin Mini Din Female) DVI (Multi-pin connector) Analog Component Y-Pr-Pb with active loop (3 BNC)
Color Bar Signal	Full field SMPTE
Power required	12 V D.C. from external U.L. Class 2 power supply (included) max 5.0 AMP
Power Consumption	24 Watt Nominal
Operating temperature	32° F to 110° F (0° C to 45° C)

4 Mechanical Specifications

Dimensions	19.125"W x 2.5"D x 5.14"H (48.5cm x 6.35cm x 13.5cm)
V-R72P-2HD Weight	5.0 lbs (2.27kg)
V-PS12-5V-1 Power Supply Weight	1 lbs (0.45kg)

5 Operational Setup

1. Unpack the V-R72P-AFHD and accompanying V-PS12-5V-1 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. After inspection, install in your desired location of a standard EIA 19-inch equipment rack. Adequate ventilation is required when installed to prevent possible damage to the V-R72P-AFHD internal components.
3. Connect required cables for signal input and output. Please note that power must be applied to the V-R72P-AFHD for all outputs to be activated. All BNC connectors should be rated for 75Ω.
4. Plug the V-PS12-5V-1 power supply into the A.C. source
5. Attach twist lock power connection from V-PS12-5V-1 power supply to the back of the unit.
6. Turn on the V-R72P-AFHD by depressing the power switch located on the front of the unit.

6 Connectors

- * Composite Video Inputs comply to SMPTE-170M
- * HDSI/SDI inputs comply to SMPTE292,259M / ITU-R BT601
- * Active Outputs require power to be applied
- * All input signals appear as output signal
- * HDSI/SDI signals are reshaped and re-clocked
- * Analog output signals are buffered and amplified
- * Tally lamps active when connected to ground

