

Marshall

V-R71PA-SDI Instruction Sheet

Broadcast Multimedia Division

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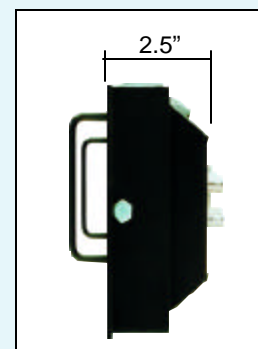
At just 3 rack spaces high, the **V-R71PA** is loaded with features and flexibility. This unit accepts SDI, S-Video, and composite video sources with loop through in a 16:9 or 4:3 ratio. Two stereo pairs of audio may be inputted via 4 SDI embedded, or 2 AES/EBU, or 4 balanced XLR inputs. Simultaneous visual monitoring of up to 4 audio channels is obtained using a high-resolution LED bar graph, while one selectable pair of audio is monitored via the full range stereo speakers. Using a new revolutionary Class D, all digital power amplifier, the V-R71PA delivers 5 watts per channel of high fidelity audio, but produces virtually zero heat. Other features include NTSC/PAL auto recognition, a color bar generator, controls for volume, color, tint, contrast, and brightness. Unit comes complete with power supply and owners manual.



The operation of the V-R71PA-SDI is fairly straightforward, however, please take note of the following:

1. The V-R71PA-SDI has been designed to fit in a 3U space on your rack. It may be necessary to center the unit up or down in order to not touch any adjacent units in your rack when tilting unit up or down. The auto signal detection will display a blue screen with the absence of a signal. The V-R71PA-SDI has a memory function that will remember the settings of each monitor including power and channel selection *even if power has been disconnected from the unit.*
2. The LCD Panel comes with a protective plastic film that must be removed by carefully lifting the film from the corner and peeling it off. Be certain not to apply any pressure on the LCD panels, they are fragile and can break. Scratched, cracked or broken LCD screens are not covered by our warranty.
3. The V-R71PA-SDI uses 12VDC, 3.0amp regulated power. Be certain that these specifications are met when using a power supply other than the one supplied to you by Marshall Electronics. The V-R71PA-SDI is equipped with a bayonet locking mechanism on the power connector. Each mating end has a particular shape that needs to slip into the other and then lock in place by turning the outer sleeve.
4. The Video inputs on the rear of the panel are 75 Ohm self-terminated. The loophrough feature uses active components and is always active as long as power is supplied to the unit regardless of the monitor being On or Off. The V-R71PA-SDI is also equipped with a 10-bit D/A convertor that converts the SDI input from that channel. This D/A convertor uses the SMPTE 259M standard and is relocked.

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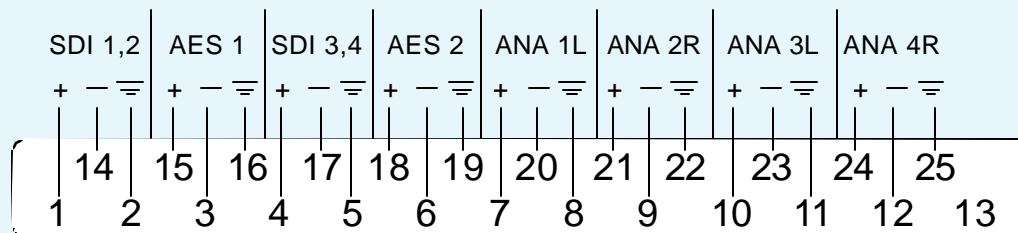
Display	Viewing Area	Dot Pitch	Picture Elements	Video Inputs	Audio Inputs	Dimensions	Power Consumption
7" LCD Active Matrix	6.07" x 3.41"	0.108mm x 0.375mm	1440Hx234V	1 Composite, 1 SDI, 1 S-video	4 Analog, 2 AES, 4 SDI	19.12W x 5.14H x 2.65D	12 VDC 3.0 Amps

5. Switching NTSC and PAL formats: By pressing the **RATIO** button, holding it down and then pressing the **BARS** button and releasing both, the V-R71PA-SDI will toggle between NTSC and PAL formats. In the **SDI** mode, it is necessary to switch the unit to either format. If the unit is displaying a scrambled picture from the SDI input, more than likely it is because the unit is in the wrong format. Switch the format in the manner described above to correct the problem.

Although the Composite and S-Video inputs to the V-R71PA-SDI can automatically recognize either NTSC or PAL formats, it is recommended that the user still switch the unit from one format to the other. This is due to the nature in which the built-in color bar generator is showing color. With the internal color bars showing on the screen, the TINT adjustment is the indication as to what format the unit is in. If the TINT control changes the picture, the unit is in NTSC mode. If the TINT control does not change the picture, the unit is in PAL mode.

6. Audio: The audio portion of the V-R71PA-SDI is located beneath the LCD screen and is designed to access any of the inputs by the push of a button. Any audio/video combination is possible by pressing the corresponding button. The **speaker monitor** portion of the audio source allows the user to toggle between listening to channels 1 and 2, or 3 and 4. Channels 1 and 2 also correspond to the first SDI encoded audio pair and the #1 AES/EBU input. Channels 3 and 4 correspond to the second SDI encoded audio pair and the #2 AES/EBU input. The PHASE indicators on each side of the bargraphs indicate the phase relation between the channel pairs (1 and 2, or 3 and 4), a green light indicates that the signal is 'IN PHASE' and a red light indicates that the signal is 'OUT OF PHASE'. The bar graphs on the V-R71PA-SDI indicate VU and PEAK levels simultaneously. The bar graphs are calibrated where 0VU = +4dBm.

LOOPTHROUGH: The loopthrough outputs for audio are accessed via the 25-pin connector on the rear of the unit. A 6 ft. cable that converts this connector into 8 labeled XLR's is available (Marshall part no. V-R71LC6). The audio loopthrough portion of the unit is described as; passive high impedance for all 4 analog channels; active for the 2 AES/EBU channels; the 4 SDI embedded signals are converted into 2 AES/EBU format and have their own designated outputs. The pin out is as follows:



Warranty

Marshall Electronics warrants to the first consumer, that this **V-R71PA-SDI** rackmount 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 first consumer 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.

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