

The V-R81PA is a rack mountable unit that has a 7.9" active matrix LCD panel with auto NTSC/PAL recognition and 4 separate channels of audio built-in. The video portion has 2 composite video inputs and an S-Video input, each with loop through capability. The four channels of audio are inputted via the 4 balanced XLR inputs and have a passive loop through for each channel. Simultaneous visual monitoring of the 4 audio channels is obtained using the LED bargraphs on the face of the unit. Each speaker can have any of the four audio channels and are indicated by a highly visible LED number readout. Controls for color, tint, contrast, and brightness are provided via an on-screen menu.



**The operation of the V-R81P is fairly straightforward, however, it is important to take note of the following:**

1. The V-R81PA has been designed to fit in a 4U 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.
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 panel, it is fragile and can break. Scratched, cracked or broken LCD screens are not covered by our warranty.
3. The V-R81PA 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.
4. The V-R81PA is equipped with a bayonet locking mechanism on the power connector. Each mating end has a particular shape that need to slip into the other and then lock in place by turning the outer sleeve.
5. The Video inputs on the rear of the panel are 75 Ohm self-terminated. The loop through 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.



7.9" LCD	Viewing Area	Dot Pitch	Picture Video	Video Inputs	Audio Inputs	Dimensions	Power Consumption
Active Matrix 6.35" x 4.64"	6.35" x 4.64"	0.112mm x 0.504mm	1440H x 234V	2 Composite, 1 S-VIDEO	4 Analog with loop through	19.125W x 6.85H x 2.50D	12 VDC 3.0 Amps

### Picture Adjustment and Menu Functions.

- BRIGHTNESS** - The BRIGHTNESS can be adjusted at any time by using the UP and DOWN keys on the unit without going through the MENU.
- COLOR / CONTRAST / TINT** adjustments - Press the MENU button on the front of the unit and use the UP and DOWN keys to select COLOR, CONTRAST or TINT, once selected press the MENU button again to view the control bar:

#### CONTRAST



Then use the UP and DOWN keys to adjust the level. To exit the menu, either use the EXIT selection on the screen, or let the menu exit on its own after five seconds of non-activity.

- SYSTEM SETUP** - Press the MENU button on the front of the unit and use the UP and DOWN keys to select SYSTEM SETUP, once selected, press the MENU button again to view the sub-menu.

**DIMMER** - This adjusts the intensity of the backlight, it can be set to LOW, MID or HIGH.

**FSC SET** - This changes the frequency of the color subcarrier. This setting should be at 3.58MHz for NTSC signals. It is not recommended to adjust this unless it becomes necessary to have the subcarrier changed to 4.43MHz.

**HOR** and **VER** - These settings allow the monitor to reverse scan in either the HORIZONTAL or VERTICAL direction, allowing a picture to be viewed either as a mirror image, or upside down.

- TALLY SYSTEM** - The tally system on the V-R81PA is accessed via the DB-15 connector on the back of the unit. The system works by closing the contacts between the ground pin and the corresponding LED pin. The system is self powered, DO NOT GIVE POWER TO THE PINS. The pinout is as follows:

Green	Red	Yellow	PINS 5, 10 and 15 ARE COMMON GROUNDS
Pin 6	Pin 7	Pin 11	

- AUDIO SYSTEM** - The Audio System on the V-R81PA is designed to offer the user the greatest flexibility. It functions as two independent systems with the capability to access any of the four channels from either speaker at any time. This is done by pressing the button located beneath the LED number readout until the desired channel appears. The inputs in the rear of the unit are XLR balanced audio where 0VU = +4 dBu, the input level meters reflect this reference setting and can only be changed at the factory. The **VOLUME** and **BALANCE** are adjusted using the VOLUME and BALANCE knobs on the front of the unit. When HEADPHONES are plugged into the headphone jack, the speakers will be deactivated and only the headphones will be active. The loophrough on the XLR's are passive and have no active components working them.

- Power ON/OFF**. When unit is on and power is disconnected from unit, on powering up unit must be turned on by pressing power ON/OFF button on front panel

### Warranty

Marshall Electronics warrants to the first consumer, that this V-R81PA 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.