

Marshall Electronics
Broadcast Multimedia Division

15" Rackmountable
LCD PANEL with
Quad-Splitter

V-R151-4P

Marshall Electronics

El Segundo, California
www.LCDRacks.com

Table of Contents

1. Installation	3
1) Before Installation	3
2) Components	3
3) Operation	3
4) Tally	3
5) Mounting	3
6) Connections	4
2. Computer	5
1) Computer Mode Selection	5
2) Horizontal pan / Vertical Pan control	5
3) Value Default	5
4) Color Change	5
5) Input Condition Control.....	5
3. Composite Video / S-VHS	6
1) Composite Video / S-VHS Selection	6
2) Value Default	6
3) Video Mode	6
4) Color Change	6
4. Menu Tree	7
1) Computer	7
2) Video	7
3) OSD Control	8
4) System Control Menu Tree.....	8
5. Quad-Splitter	9
6. Warranty	10

6. Warranty

Marshall Electronics warrants to the first consumer, that this **V-R151-4P** 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.

1. Installation

1) Before Installation

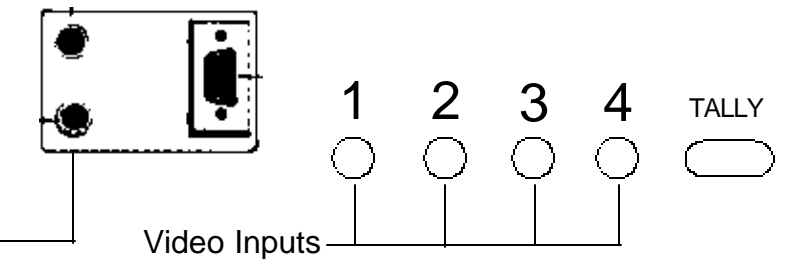
- Before using your monitor, make sure to read this manual carefully. In case of any problems with installation, contact Marshall Electronics.
- The monitor should be handled with caution and not be exposed to impact or shock.
- The display area is highly prone to scratches. Use cleaner suggested by the authorized service center.
- Do not expose the monitor in high temperature or in high humidity.
- There are no user serviceable parts inside your monitor. To avoid risk of electric shock, do not open your monitor case!

2) Components

- Rackmountable TFT LCD Monitor- 1 pc
- DC Power Supply Adapter -1 pc
- Power Cable 1- pc
- Computer Cable 1 pc

3) Operation

Multiple Input Terminal



4) Tally

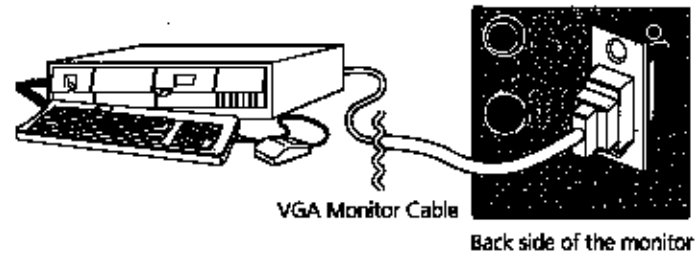
The V-R151-4P comes with four tally lights installed to correspond with the quad split screen. The lights are operated by inserting a DB9 plug into the jack marked 'TALLY' on the rear of the unit. The lights will come on by **closing** the two contacts together. **DO NOT GIVE POWER TO THIS PLUG IT IS SELF-POWERED.** The pinout is as follows: Pin 1 is for Tally light 1; Pin 2 is for Tally light 2; Pin 3 is for Tally light 3; Pin 4 is for Tally light 4. Pins 6 - 9 are used as common grounds for the system. Pin 5 is not used.

5) Mounting

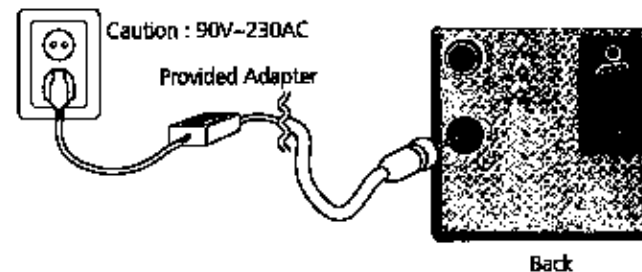
The V-R151-4P is designed to fit in a EIA standard 19" rack. It requires 6 rack units of vertical space and is secured with eight screws. It may be necessary to center the unit up or down so that it does not touch any adjacent units when the unit is tilted up or down.



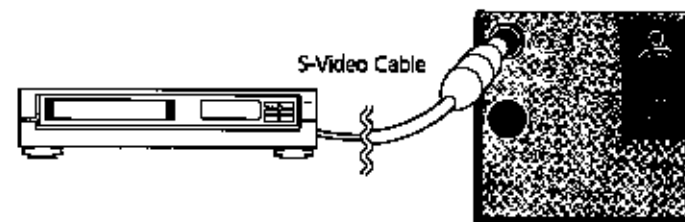
MONITOR



POWER SUPPLY



S-VHS



5. The Quad Splitter

The quad splitter buttons, located on the left of the unit, are dual function buttons, the functions are indicated above and below each button. The four buttons on the right are used to select the video channel, in the zoom mode and the setup mode, these buttons will be used to navigate around the screen and will be explained later. The four buttons on the left are used to setup the quad splitter and also to use the digital freeze, sequential switcher functions and setup menu. To access these functions it is necessary to press the ALT button along with the desired function, ie. for the FREEZE function, press the ALT button and the FREEZE button together. The buttons on the left are used as follows:

Video Loss Detection: This unit is equipped with Video Loss Detection, "VLD". Should any signal get lost, the unit will automatically go into a Quad-Splitter mode and the letters "VLD" will blink in the corresponding quadrant to indicate that a video signal has been lost.

ZOOM: Enters the 2X digital zoom mode at the single screen mode. Press once to zoom in, press again to zoom out. the zoom mode is only available in the single screen mode and not in any of the multi-screen modes. In the zoom mode, a boundary will appear in the center of the screen. The buttons with the arrows beneath them can now be used to move the boundary around the screen. To make the boundary fill the entire screen, press the QUAD key, the arrow buttons can still be used to move the zoomed portion around the screen. The zoom mode can be used in conjunction with the FREEZE mode. The zoom mode can be exited by pressing the ZOOM button again.

FREEZE: The freeze mode is accessed by pressing the ALT button simultaneously with the FREEZE button. This mode can be used either in full-screen mode or quad or PIP mode. The freeze function can be toggled to other video channels by pressing the channel buttons. To release the freeze function, press the ALT and FREEZE buttons simultaneously again.

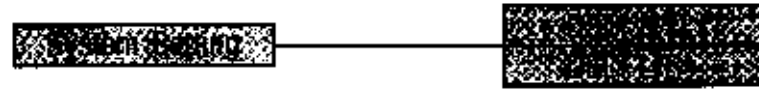
Picture-In-Picture, PIP: The PIP is a priority monitoring function. While the quad screen gives equal priority, or size to each channel, the PIP gives one channel the full screen with the other three appearing in smaller boxes within the screen. The PIP boxes can be arranged horizontally or vertically via the SETUP menu. To change the priority of the four channels, simply press the PIP button as needed.

Sequential Switcher, SEQN: The sequential switcher can be activated by pressing the ALT and SEQN buttons simultaneously. The time delay for each channel can be set up in the SETUP menu. To skip a channel in the sequence, set the dwell to 0.

Quad-Splitter, QUAD: By pressing the QUAD button, the screen will show all four video inputs simultaneously. Each of the screens can have a user designated ID which is done through the SETUP menu. To exit the quad function, press any of the 4 video channels. The unit will also go into a quad mode when a video signal loss is detected and the quadrant will have the letter 'VLD' signifying Video Loss Detected.

Setup menu, MENU: The SETUP menu can be accessed by pressing ALT and MENU simultaneously. Any of the four sub-menus can be chosen by pressing the corresponding 'CH' button, ie sub-menu 1 is accessed by pressing 'CH 1' button. When a sub-menu is selected, the number in the [] will highlight and blink. The bottom of the screen will give any further instructions to navigate through this menu.

3) OSD (On Screen Display) control



Press Menu → Select (System Setting) → Select OSD U/D) or OSD L/R) → use the UP, DOWN keys

4) System Control Menu Tree

	PC	COMPOSITE	S-VHS
HORIZONTAL PAN	0		
VERTICAL PAN	0		
VALUE DEFAULT	0	0	0
CHANNEL ADD / REMOVE			
TV=AIR CH			
MODE		0	0
INPUT CONDITION	0		
VOLUME ADJUSTMENT		0	0
BRIGHTNESS	0	0	0
CONTRAST	0	0	0
HUE		0	0
COLOR		0	0

2. Computer

1) Computer Mode Selection

Press **Menu** → **Select** (INPUT) using the UP, DOWN keys → press **Select** (MONITOR) and then press select.

2). Horizontal Pan / Vertical Pan Control

Press **Menu** → **Select** (HORIZONTAL PAN) or (VERTICAL PAN) → control (HORIZONTAL PAN) or (VERTICAL PAN) by pressing the UP, DOWN keys.

3) Value Default

Press **Menu** → **Select** (SYSTEM SETTING) → press **Select** (VALUE DEFAULT) → press **Select** (System control values will be initialized as this monitor is manufactured.)

4) Color Change

Press **Menu** → **Select** (COLOR CHANGE) → **Select** one of 4 modes to set → you can control selected sub-menu with the UP, DOWN keys → press **Select** → sub-menu (4 color mode) will appear → repeat the above steps until you have settled color change → press **Menu** → when you press menu, you will be asked whether (SAVE YES) or (SAVE NO) → **Select** one of the two options.

Color Change sub-menu will be limited to Brightness/Contrast only.

(If you press menu before selecting (SAVE YES), color will become invalid.)

5) Input Condition Control

Press **Menu** → **Select** (SYSTEM SETTING) → **Select** (INPUT CONDITION) → **Select** one of the five modes to set.

Control the selected sub-menu with Select key

After tuning is settled, use **Menu** key to escape from menu tree

3. Composite Video / S-VHS

1) Composite Video / S-VHS Selection

Press **Menu** → **Select** (INPUT) using the UP, DOWN keys → press **Select** (COMPOSITE) or (S-VHS) and then press **Select**

2) Value Default

Press **Menu** → **Select** (MODE) → press **Select** → **Select** (NTSC) or (PAL) depends on manufactured country Video Mode will not work on (TV) and (Monitor)

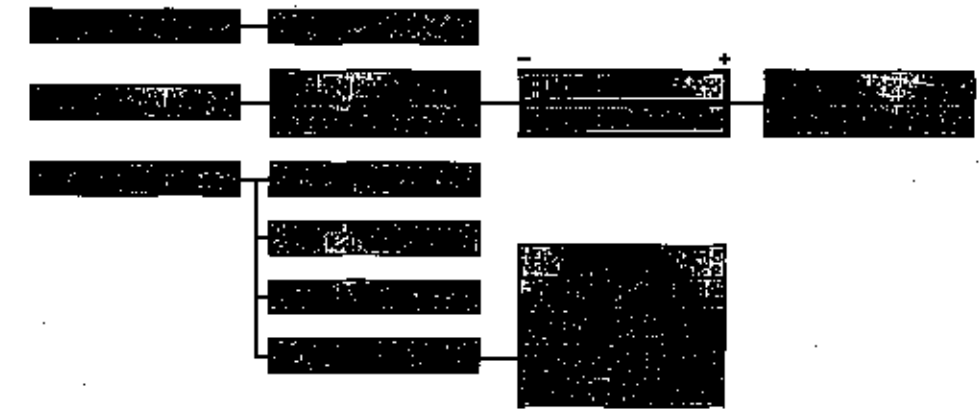
3) Color Change

Press **Menu** → **Select** (COLOR CHANGE) → **Select** one of 4 modes to set → you can control selected sub-menu with the UP, DOWN keys → press **Select** → sub-menu (4 color mode will appear → repeat the above steps until you have settled color change → press **Menu** → when you press **Menu**, you will be asked whether (SAVE YES) or (SAVE NO) → **Select** one of the two options.

(If you press menu before selecting (SAVE, YES) color change will become invalid.)

4. Menu Tree

1) PC Monitor



2) VIDEO

