

Marshall Electronics

El Segundo, California
www.LCDRacks.com

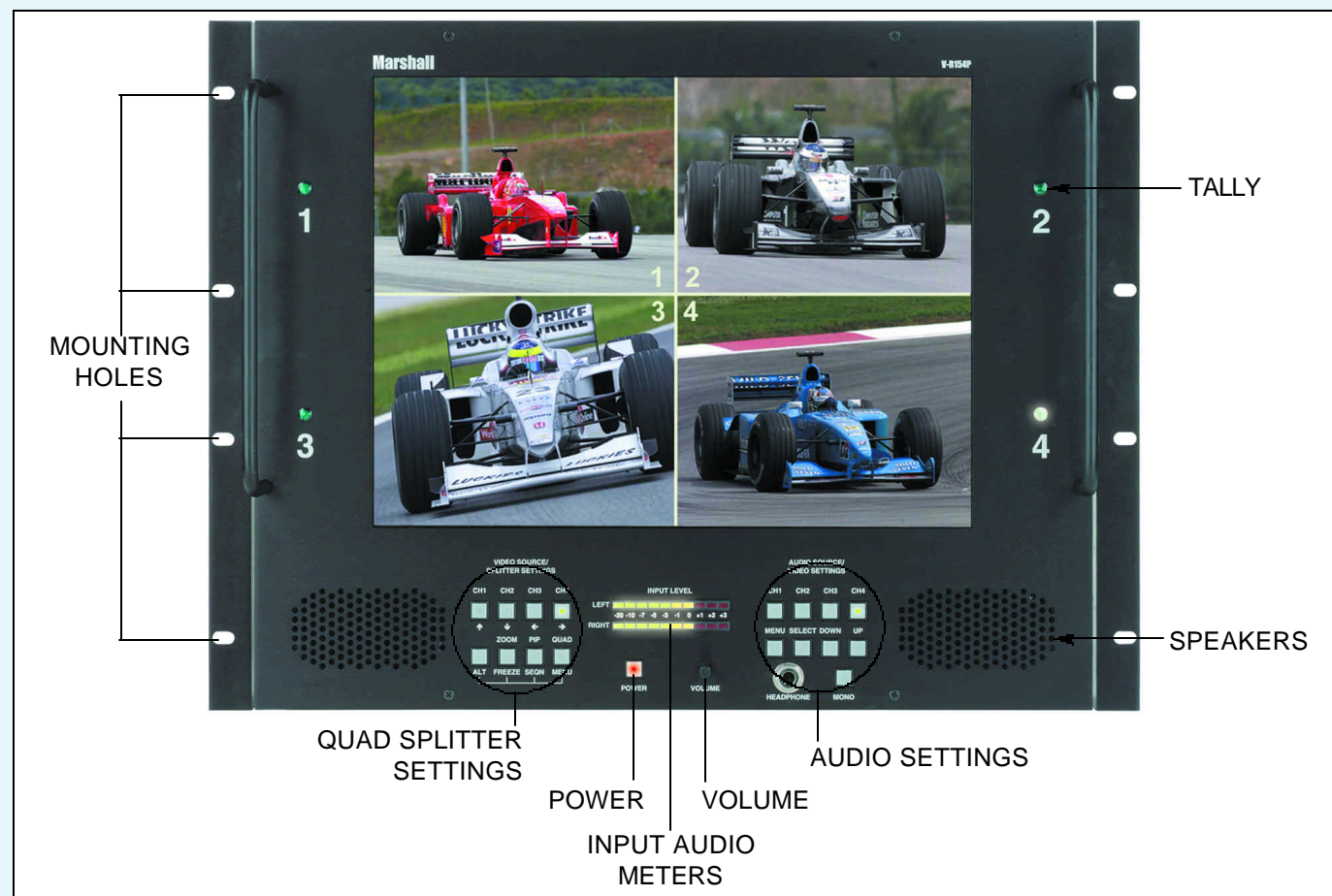
Marshall Electronics

Broadcast Multimedia Division

15" Rackmountable
LCD PANEL with
Quad-Splitter and
Balanced Audio

V-R154P

OPERATING MANUAL



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.
- Do not expose the monitor in high temperature or in high humidity.

2) Connections

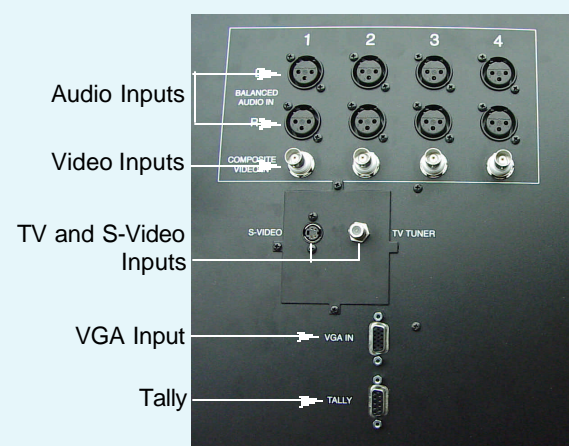
The rear of the unit has four BNC connectors for the video inputs and eight XLR connectors for audio. Beneath them are the S-Video and an F connector for cable or antenna. Beneath that are the VGA and TALLY D-sub connectors.

3) Tally

The V-R154P has a TALLY system that is based on a closed contact format where PIN 4 is the COMMON and tally light one is on pin 3, tally light 2 is on pin 1, tally light 3 is on pin 7, and tally light 4 is on pin 5. The light will come on by **closing** the two contacts together. **DO NOT GIVE POWER TO THIS CONNECTOR IT IS SELF-POWERED.**

4) Mounting

The V-R154P is designed to fit in a EIA standard 19" rack. It requires 8 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.



nel with any audio channel by simply selecting a video source and then pressing any of the four audio channels desired. The inputs in the rear of the unit are XLR balanced audio at +4 dBu, the input level meters reflect this reference setting and can only be changed at the factory. Any audio channel can be monitored by pressing the corresponding 'CH' button on the right hand side of the unit. The VOLUME is adjusted using the VOLUME knob on the front of the unit. The unit will also work in a MONO mode by pressing the MONO button. When the MONO function is active, the MONO button will indicate this with a green LED. When HEADPHONES are plugged into the headphone jack, the speakers will be deactivated and only the headphones will be active.

Part No.	Display	Viewing Area	Inputs	Backlight	Color	Picture Elements	Supply Voltage	Size
V-R154P	15.1" Active Matrix	11.69 x 9.12	4 NTSC/PAL Composite Video, 1TV, S-Video, XGA	210 Candle Luminance	Full Color	1024 x 768	12 VDC, 5.0A	19.12" W x 13.80"H x 3.7" D

Warranty

Marshall Electronics warranties to the first consumer, that this **V-R154P** 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.

6. 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 top four buttons 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 bottom four buttons 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 bottom row of buttons 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.

7. Audio

The quad splitter and audio systems work together so one will hear an audio source corresponding to the video channel selected, ie. video input 1 is selected and audio input 1 is automatically selected as well. For greater flexibility, the unit allows the user to manually override this feature and select any video chan-

2. TV Mode

1) TV Mode Selection

Press **Menu** → **Select** (INPUT) Using UP, DOWN keys → **Select** (TV)

2) Value Default

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

3) Channel ADD / Remove

Press **Menu** → **Select** (CHANNEL ADD/ REM) → when you select a channel which has already been added, (ADD/REMOVE) will turn into (REMOVE) to remove the channel from your favorite channel list. To add the channel, **Select** (ADD) and press **Select**.

4) Air/ Cable TV

Press **Menu** → **Select** (SYSTEM SETTING) → **Select** (TV) **Select** (AIR) or (CABLE)

5) Volume Adjust

Press **Menu** → **Select** (VOLUME ADJUST) → Use UP, DOWN keys → press **Select** (If you press **Menu** before pressing **Select** volume adjust will become invalid.)

6) Color Change

Press **Menu** → **Select** (COLOR CHANGE) **Select** one of 4 modes → to set you can control **Selected** sub-menu with 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 to (SAVE NO) → **Select** one of the two options. (If you press menu before selecting (SAVE YES,) color change will become invalid.)

3. 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

4. Composite Video / S-VHS

1) Composite Video / S-VHS Selection

By Remote Control

Press **Video** or **S-VHS** on remote control directly.

By Menu key

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) Volume Adjust

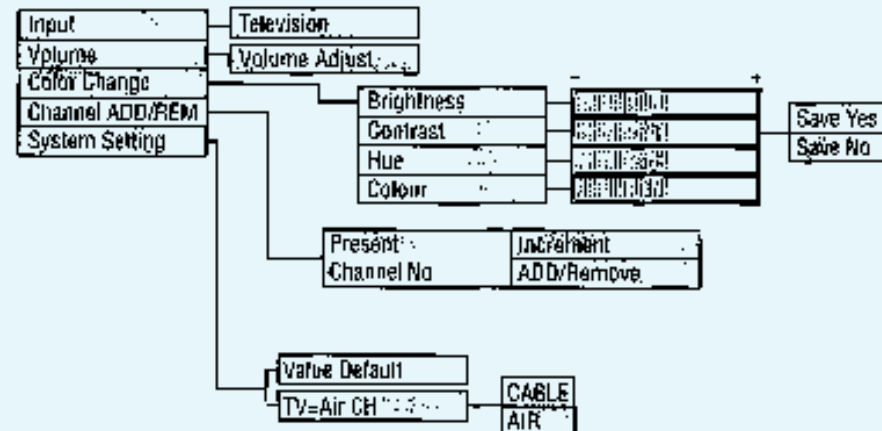
Press **Menu** → **Select** (VOLUME ADJUST) → use the UP, DOWN keys → press **Select**
(If you press menu before pressing select, volume adjust will become invalid,)

4) Color Change

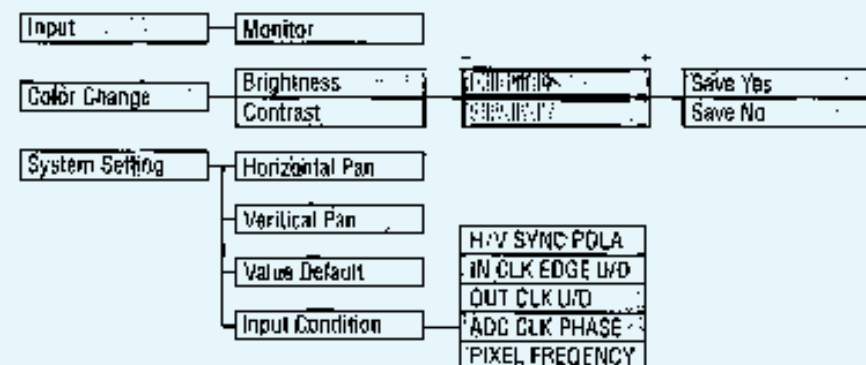
Press **Menu** → **Select** (COLOR CHANGE) → **Select** one of 4 modes to set → you can control selected sub-menu with the UP, DOWN keys → press **Select** → sub-menu (4 color mode will appear → repeat the above steps until you have settled color change → press **Menu** → when you press **Menu**, you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

5. Menu Tree

1) TV

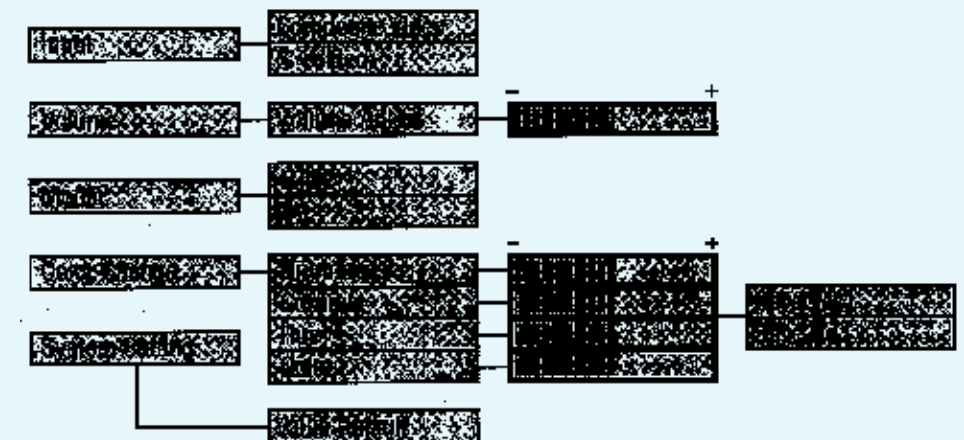


2) PC Monitor

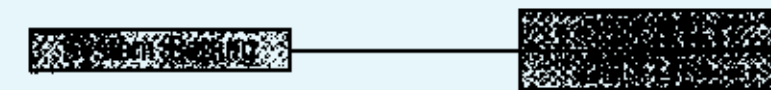


5. Menu Tree cont.

3) VIDEO



4) OSD (On Screen Display) control



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

5) System Control Menu Tree

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