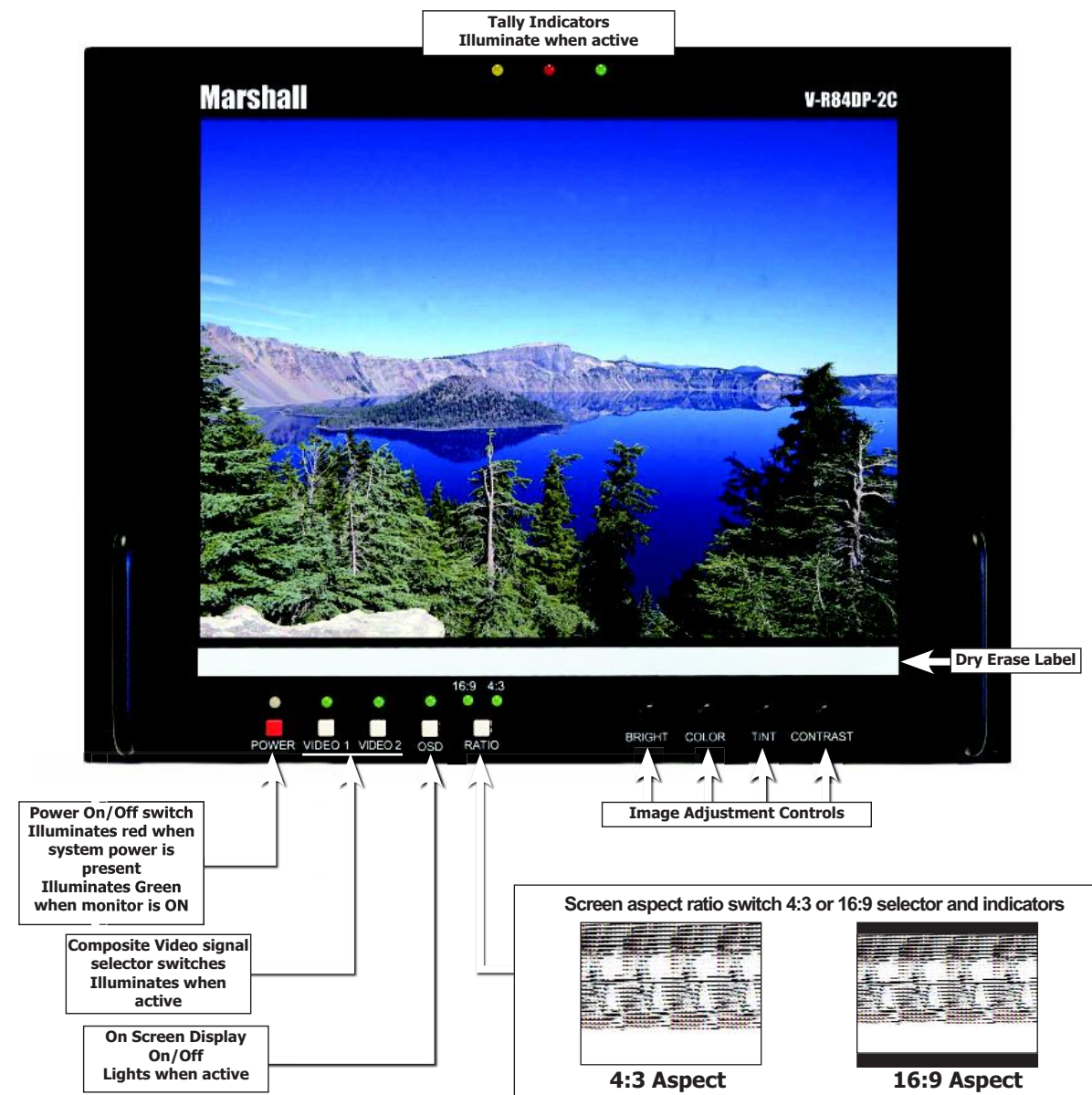


## 10 Switch Settings, Adjustments and Indicators



**Note: Tapping any active input signal toggles BLUE GUN On/Off. Signal selection is active when Blue Gun is on. Tap active selection to turn off**

## 11 Warranty

Marshall Electronics warrants to the first consumer, that this V-R84DP-2C portable 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.

Version 2009-0513

## Marshall Electronics

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## V-R84DP-2C Users Guide

Product Overview	1
Features	2
Standard Accessories	3
Optional Accessories	4
Electrical Specifications	5
Mechanical Specifications	6
Faceplate Cleaning	7
Operational Setup	8
Input Connectors	9
Switch Settings, Adjustments and Indicators	10
Warranty	11

## 1 Product Overview

Our V-R84DP-2C is a direct replacement for 8 and 9-inch CRTs used in broadcast and professional video applications. This cost effective model includes our Award Wining Digital TFT-Megapixel™ system for the LCD screen with 1.44 million pixels plus our HyperProcess™ of interlace images to produce the smoothest motion available on an LCD/TFT. Standard features include V-Mount battery adapter, 4 pin XLR power jack, and optical grade polycarbonate screen protection. Analog signals are digitized using an advanced 10 bit process with 4x over sampling and adaptive 5 line comb filter plus exacting color space conversion. Video is scaled to fit on screen in the highest resolution using a state of the art LSI that incorporates 6x6 pixel interpolation with precision Gamma correction Match Color Conversion™ to product the best images available.

## 2 Features

<b>TFT-MegaPixel™ Display 800x600 Dots (1.44 million pixels)</b>	• Capable of displaying more than 800 TV Lines resolution. The composite video signals are internally up converted to High Definition. All signals remain completely digital to provide the most exact images available.
<b>Standard Inputs</b>	• 2-Analog Composite PAL/NTSC Auto Detect (BNC with loop out) (SMPTE170M)
<b>Durable metal enclosure</b>	• Protection for all connections and controls with strategically placed ventilation for use in harsh environments
<b>Protective Screen Cover</b>	• Optical grade polycarbonate screen cover with Antireflective/Antiglare coating
<b>HyperProcess™</b>	• Display interlace images without smearing or sacrifice of temporal resolution with our proprietary interpolation algorithms. Images are then displayed at a sample rate equal to the frame rate.
<b>Memory Function</b>	• Adjustment Settings Memory stored on shutdown and recalled when power is applied
<b>MatchColor Conversion™</b>	• Factory programmed to closely match typical SMPTE/CIE color metric and color temperature specifications. This model is adjusted for D-65 color temperature and 62% SMPTE color gamut
<b>Blue Screen</b>	• Use for adjustment to SMPTE color Bars
<b>OSD</b>	• On screen display of Format and Ratio
<b>Tally (DB-15)</b>	• Three LEDs (Red, Green, Amber) produce 7 different tally indications

## 3 Standard Accessories

Accessories Supplied with the V-R84DP-2C

- Users manual
- "Brick" type 12vdc power supply with 4 Pin Female XLR connector

- "V" Mount battery adapter
- ¼"-20 mounting plate

## 4 Optional Accessories

<b>Stand</b>	<b>V-LCD4-ST</b>		Use for table top mount
<b>Sun Hood</b>	<b>V-H900</b>		Use for viewing in bright lighting or outdoors
<b>Power Adapter Cable</b>	<b>V-PAC-D</b>		Use with Anton Bauer D-type connection
<b>Power Adapter Cable</b>	<b>V-PAC-XLR</b>		Use with 4 Pin XLR connections

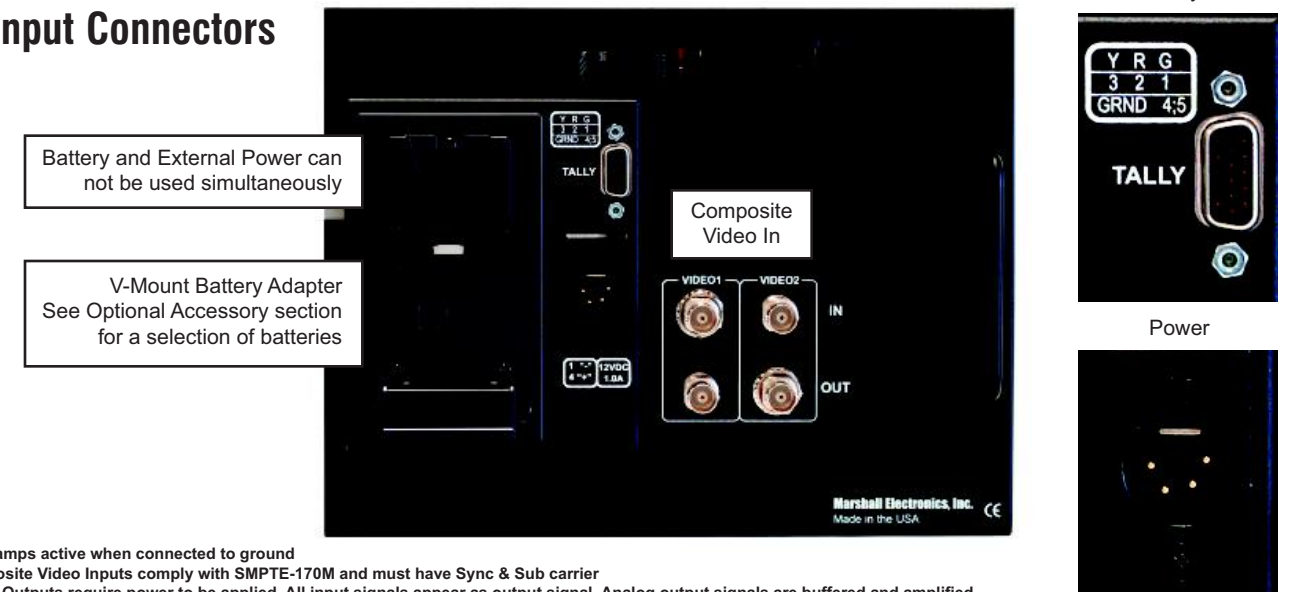
## Recommended Anti-Static Cleaners and Polishes

210 Plastic Cleaner & Polish and 210 Plus Cleaner <b>Sumner Laboratories</b> 186 Lincoln Street Boston, MA 02111 617-542-8656 / Fax: 617-482-9001	20/20 Plastic-Cleaner <b>Craftics, Inc.</b> PO Box 91930 Albuquerque, NM 87199 (505) 338-0005
Crystalclean <b>Discovery Plastics</b> 3700 Western Way, NE Millersburg, OR 97231 541-926-2900 / Fax: 541-967-8441 www.discoveryplastics.com	Plexus Plastic Cleaner <b>Plexus</b> 638 Lindero Canyon Rd. #371 Agoura, CA 91301 800-405-6495 Fax: 818-879-0697
Scotch-Brite High Performance Cloth <b>3M Stationery &amp; Office Supplies Div.</b> <b>3M Center</b> St. Paul, MN 55144-1000 877-362-5684 Fax: 651-733-0382 <b>www.mmm.com</b>	NOVUS #1 Plastic Clean and Shine <b>NOVUS, Inc.</b> 12800 Highway 13 South, Suite 500 Savage, MN 55378 800-548-6872 ext.451 Fax: 952-946-0435
<b>The Simco Industrial Static Control</b> An Illinois Tool Works Co. 2257 North Penn Road Hatfield, PA 19440-1998 800-203-3419 215-822-2171 Fax: 215-822-3795 <b>www.simco.biz</b>	<b>Exair Corporation</b> 1250 Century Circle North Cincinnati, OH 45246-3309 513-671-3322 Fax : 513-671-3363 <b>www.exair.com</b>

## 8 Operational Setup










1. Unpack the V-R84DP-2C and accompanying 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. Connect required cables for signal input and output. Please note that power must be applied to the V-R84DP-2C for the video outputs to be activated. All BNC connectors should be rated for 75Ω..
3. Plug the power supply into the A.C. source. Please note that power can be supplied from a variety of DC sources, such as batteries or Vehicle power. Input power range is 10.4 to 16.8 Volt D.C. In operation, the V-R84DP-2C will draw approx. 1. amp. Attach 4 Pin XLR power connection from V-PS12-V-5 power supply to the back of the unit.
4. Turn on the V-R84DP-2C by depressing the power switch located on the front of the unit.

## 9 Input Connectors



- \* Tally lamps active when connected to ground
- \* Composite Video Inputs comply with SMPTE-170M and must have Sync & Sub carrier
- \* Active Outputs require power to be applied. All input signals appear as output signal. Analog output signals are buffered and amplified

## Optional Accessories (continued)

Battery Adapter	V-DV-PWR1		Uses 2 Sony DVCam/HDV FP-Type batteries. When used with monitor power supply, can charge batteries plus operate monitor
V-mount to Anton Bauer adapter	V-ABA-01		Use to power Marshall Electronics monitors that have V-Mount plate with Anton Bauer Gold Mount battery.
Sequential 2 channel charger	IDX-VL-2Plus		2-channel sequential charger with a built-in 60W power supply. Charges 2 ENDURA E series batteries in fewer than 5 hours. One 10' XLR cable included. Weighs only 2 lbs
Sequential 4 channel charger	IDX-VL-4		Economically charges 4 ENDURA E series batteries in under 6 hours using Full Power Charge (FPC) method
Simultaneous 4 channel charger	IDX-VL-4S		Charges 4 ENDURA E series batteries in 2.5 hours or less
55 W Lithium Battery	IDX-E7S		V-Mount battery pack with 3 LED power Indicator
55 W Lithium Battery with Power Link	IDX-E7		V-Mount Battery Pack with PowerLink includes accurate Power Status Display and supports Digi-View
82 W Lithium Battery	IDX-E10S		V-Mount battery pack with 3 LED power Indicator
82 W Lithium Battery with Power Link	IDX-E10		V-Mount Battery Pack with PowerLink includes accurate Power Status Display and supports Digi-View
Digital to Analog Converter	BC-0301-10		Converts SDI to analog Composite
Mounting Plate			Attaches to any side for mount to 1/4-20 threaded component
Cleaning Wipes	V-HWP-K		Package of 10 non-toxic, antistatic, alcohol and ammonia free cleaning wipes.

## 5 Electrical Specifications

Display (Viewing Area)	8.4 Inch diagonal (170.4mm w x 127.8mm h)
Screen Aspect	4:3/16:9 switchable
Viewing Angles	160° with protective screen and treatment (130°H x 120°V native)
Contrast Ratio	500:1
Dot Pitch	.213mm square pixel
Pixel Response	10ms rise/25ms fall
Backlight	CCFL (Cold Cathode Fluorescent Lamp)
Brightness	500 cd/m <sup>2</sup>
LCD Screen Treatments	Anti Reflection, Anti Glare, Hardcoat
Protective Screen	0.118" (3mm) thick Optical Grade Polycarbonate with Anti-Glare and Anti-Abrasion coatings. (600 Cheesecloth mil-M-13508C)
Video Format	Standard definition only
System	NTSC/PAL auto recognition
Inputs	2 Analog Composite (BNC) Self Terminating
Active Outputs	2 Composite Video (BNC) Available when power is applied to monitor
Color temperature	D65 (6500° Kelvin)
Color Gamut	SMPTE-C
Luma Linearity	Typical +/- 3% with 5 ire increments (0 to 10 ire)
Power Required	10.4 to 16.8 VDC
Power Consumption	Approx. 15 watt nominal
Operating Temperature	32°F to 120°F (0°c to 50°c)
Storage Temperature	-4°F to 120°F (-20°c to 50°c)
Compliance	CE, FCC-Class A, ANSI-63.4 (Certificates on file)
RoHS WEEE/Environmental	Do not dispose. Return to Manufacturer or Authorized Recycle Facility

## 6 Mechanical Specification

Dimensions	9"w x 6.875" h x 2.5" d (228.6mm x 174.6mm x 38.1mm)
Approx. Weight	3.3 lbs
Power Consumption	14-10 VDC, 15 Watt nominal (Universal Voltage 5.0Amps max - UL Class 2 supply included)

## 7 Faceplate Cleaning

### Faceplate Cleaning

When cleaning the faceplate it is very important to use non-abrasive and ammonia free cleaning agents and a clean micro fiber cloth. **Do not use paper towels. Paper towel fibers are coarse and may scratch the surface of the Polycarbonate faceplate. Paper towels may also leave streaks on the surface.** Antistatic and fingerprint resistant cleaning agents are recommended. Wash protective cover with a solution of mild soap or detergent and lukewarm water. Use a clean soft cloth, applying only light pressure. Rinse with clean water and dry by blotting with a damp cloth or chamois. Grease, oil or tar may be removed with a good grade of hexane, aliphatic naphtha, or kerosene. These solvents may be obtained at a paint or hardware store and should be used in accordance with manufacturer's recommendations.

**DO NOT USE: window cleaning sprays, kitchen scouring compounds or solvents such as acetone, gasoline, benzene, alcohol, carbon tetrachloride, or lacquer thinner. These can scratch the sheet's surface and/or weaken the sheet causing small surface cracks called "crazing."**

### Faceplate Dusting

Dust with a soft, damp cloth or chamois. Dry or gritty cloths may cause surface scratches and create a static electric charge on the surface. Neutralizing static electricity effects by using recommended cleaning and polishing practice.

### Faceplate Polishing

Protect and maintain surface gloss by occasional polishing with a good plastic cleaner and polish. Apply a thin, even coat with a soft clean cloth and polish lightly with cotton flannel. Then wipe with a damp cloth to help eliminate electrostatic charges that can attract dust particles

### Marking on the Faceplate

Use SHARPEE or equivalent marker. Clean as per instructions with an ammonia free cleaning agent.