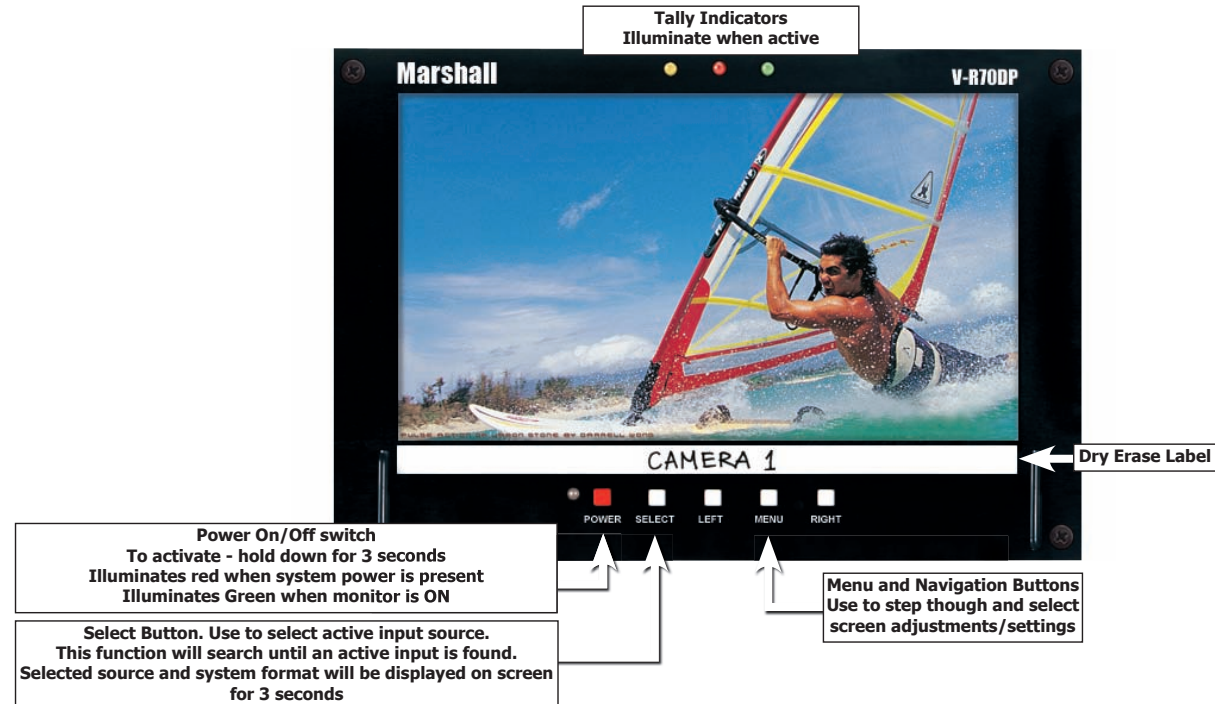


10 Switch Settings, Adjustments and Indicators




Power On/Off switch
To activate - hold down for 3 seconds
Illuminates red when system power is present
Illuminates Green when monitor is ON

Select Button. Use to select active input source.
This function will search until an active input is found.
Selected source and system format will be displayed on screen
for 3 seconds

Menu and Navigation Buttons
Use to step through and select
screen adjustments/settings

Menu Selections

Note: Menu will automatically exit 3 seconds after any selection
Note: Menu activation requires a video signal on any of the inputs

- Brightness 72** → Use left and right buttons to adjust on screen image brightness
- Contrast 0** → Use left and right buttons to adjust on screen image contrast
- Saturation 50** → Use left and right buttons to adjust on screen image color intensity
- Hue 0** → Use left and right buttons to adjust on screen image color phase/tint
- Dimming 100** → Use left and right buttons to adjust display backlight intensity
- Display Mode**
□ 4 : 3 ☑ 16 : 9 →  Use left and right buttons to adjust screen aspect
- Blue ☑ Normal → Use left and right buttons to activate blue screen for adjustment using SMPTE color bars
- Reset (right) to active** → Use right button to reset to factory conditions

11 Warranty

Marshall Electronics warrants to the first consumer, that this V-R70DP 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.

Marshall Electronics

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V-R70DP Users Guide

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1 Product Overview

The **V-R70DP** is the successor to the V-R70P. Significant improvements over the previous model include our completely digital TFT-Megapixel™ high resolution TFT/LCD screen with 1.2 million pixels, V-Mount battery adapter, 4 pin XLR power jack, and optical grade polycarbonate screen protection. All signals are digitized to provide the truest representation of your captured video images. Convenient front panel controls provide fast access to all functions for this model that accepts Two Composite plus One S-Video signal.

2 Features

High Definition Display	• Capable of displaying more than 800 TV Lines resolution. Standard definition is internally up converted to High Definition. All signals remain completely digital to provide the most exact images available.
Standard Inputs	• Two Analog Composite with PAL/NTSC Auto Detect with passive lopp through • Y/C (S-video)
Durable metal enclosure	• Protection for all connections and controls with strategically placed ventilation for use in harsh environments
Protective Screen Cover	• Optical grade polycarbonate screen cover with Antireflective/Antiglare coating
Memory Function	• Adjustment Settings Memory stored on shutdown and recalled when power is applied.
Blue Gun	• Use for adjustment to SMPTE color Bars
V-Mount Battery Adapter	• Use virtually any battery system used in the field today
OSD	• On Screen Display to provide instant feedback of adjustments and settings
Tally (DB-15)	• Three LEDs (Red, Green, Amber) produce 7 different tally indications

3 Standard Accessories Accessories Supplied with the V-R70DP

- Users manual
- “Brick” type 12vdc power supply with 4 Pin Female XLR connector
- “V” Mount battery adapter
- ¼”-20 mounting plate

4 Optional Accessories

Camera Hot Shoe Mount	V-LCD4-MT		Attaches monitor to camera
Stand	V-LCD4-ST		Use for table top mount
Sun Hood	V-H7M		Use for viewing in bright lighting or outdoors
Power Adapter Cable	V-PAC-D		Use with Anton Bauer D-type connection
Power Adapter Cable	V-PAC-XLR		Use with 4 Pin XLR connections

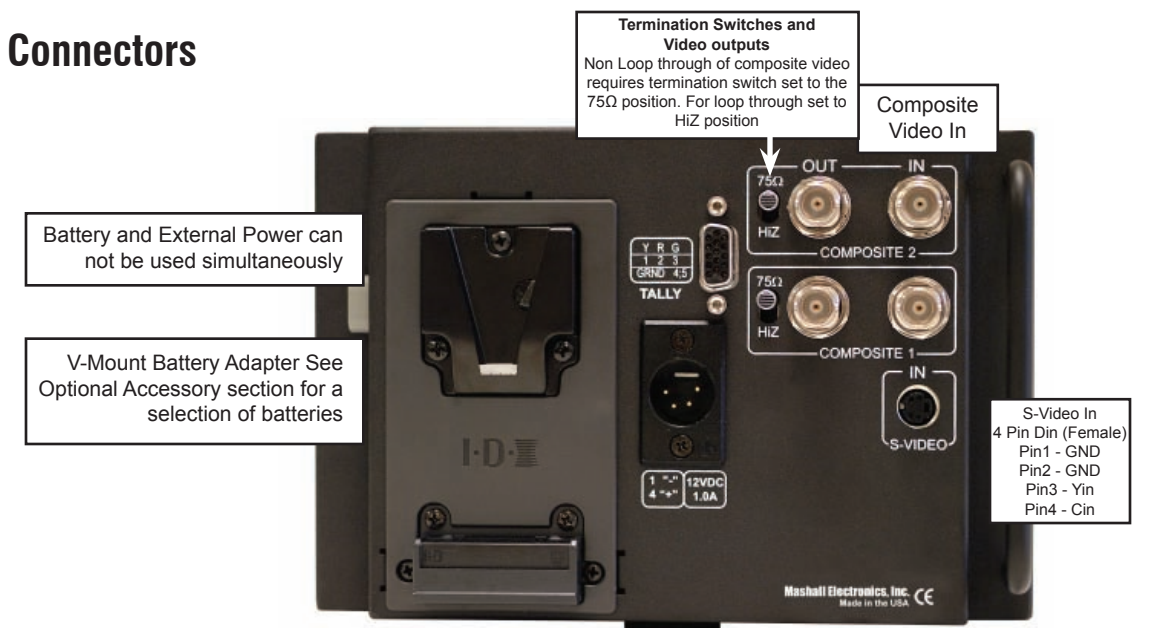
Recommended Anti-Static Cleaners and Polishes

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

8 Operational Setup













1. Unpack the V-R70DP 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. 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 10.7 to 15 Volt D.C.
In operation, the V-R70DP will draw approx. 0.8 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-R70DP by depressing the power switch located on the front of the unit.

9 Input Connectors



* Tally lamps active when connected to ground

Optional Accessories (continued)

Battery Adapter	V-DV-PWR1		Uses 2 Sony DV Cam/HDV FP-Type batteries. When used with monitor power supply, you 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)	7" (6.14"H × 3.27"V) (156.0mm x 83.28mm)
Viewing Angles	150° x 130°
Resolution (RGB Dots)	800H×RGBx480V (1.2 million pixels)
Contrast Ratio	300:1
Dot Pitch	0.1905 Square Pixel
Pixel Response	12ms rise / 18ms fall
Backlight Type / Life	CCFL / 10,000 to 20,000 Hours Typical
Brightness	400 cd/m ²
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)
System	NTSC/PAL auto recognition
Inputs	2 Analog Composite (BNC) S-Video (Y/C) (4 pin mini din female) 3 Lamp Tally (DB-15 Female) Power (4 pin male XLR)
Active Outputs	2 Composite Video (BNC) Available when power is applied to monitor
Color temperature	D65 (6500° Kelvin)
Color Gamut	SMPTE-C of CEI-1931 65%
Luma Linearity	Typical +/- 3% with 5 ire increments (0 to 10 ire)

6 Mechanical Specification

Dimensions	7.44"W x 5.125"H x 2.5"D (18.89cm x 13.0cm x 6.35cm)
Approx. Weight	3 lbs
Power Consumption	14-10 VDC, 15 Watt nominal (3.0Amps max - UL Class 2 supply included)
Operating Temperature	-20" C to 65" C Ambient
Storage Temperature	-30" C to 85" C

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.