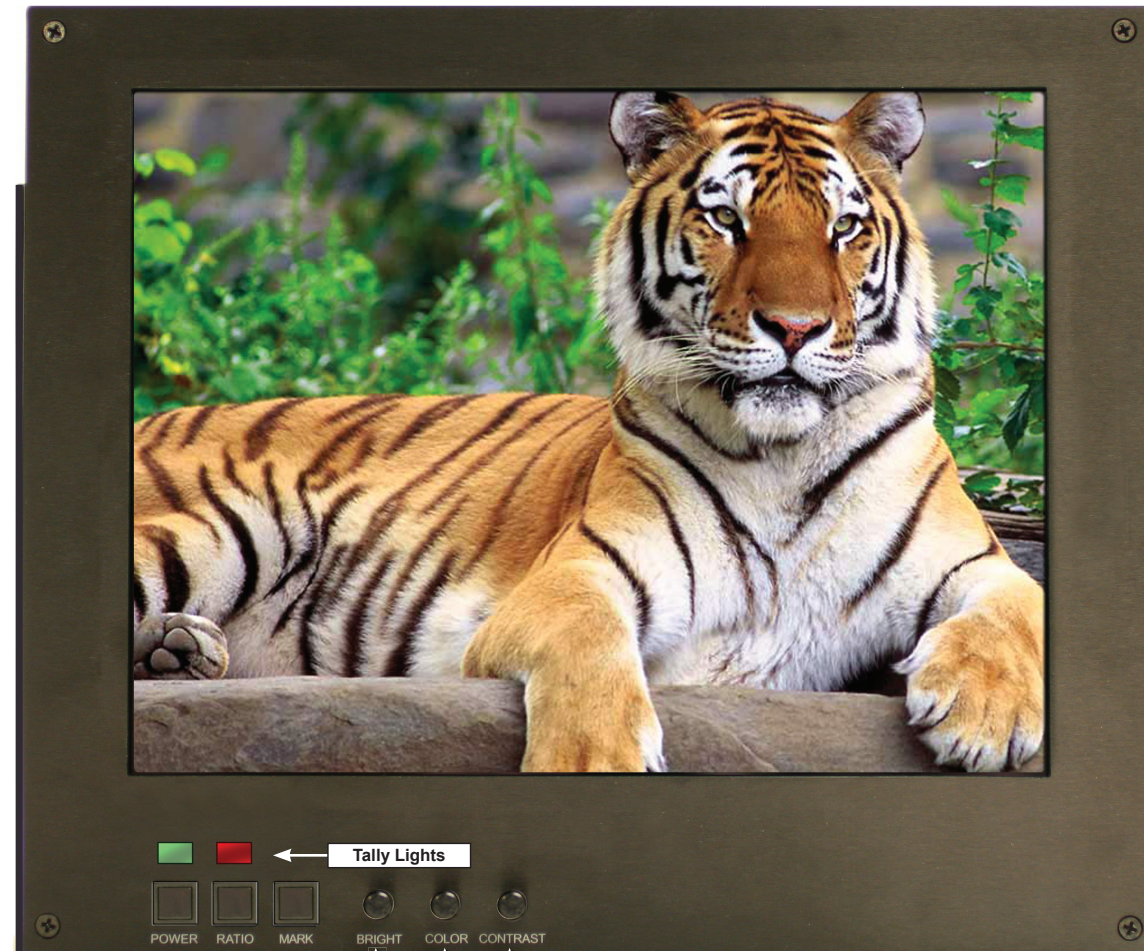


## 10 Switch Settings, Adjustments and Indicators



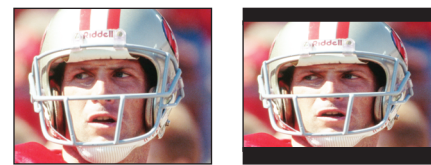
Power

Brightness, Color, and Contrast controls

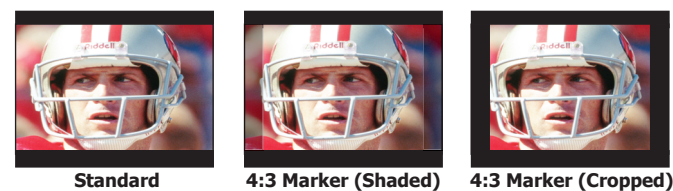
**RATIO:** Each push of the button switches between 4:3 and 16:9 modes

**MARK (16:9 mode only):** Each push of the button switches between 16:9 standard, 4:3 marker (shaded), and 4:3 marker (cropped)

### RATIO Settings



### MARK Settings (16:9 Mode Only)



## 11 Warranty

Marshall Electronics warrants to the first consumer, that this V-R1041DP-TE / V-R1042DP-TE 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.

12/14/2006

## Marshall Electronics

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## V-R1041DP-TE / V-R1042DP-TE

### User's Guide

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## 1 Product Overview

The **V-R1041DP-TE / V-R1042DP-TE** is a direct replacement for 8 and 9-inch CRTs used in broadcast and professional video applications. This cost-effective model features our award-winning all-digital TFT-Megapixel™ LCD panel with 2.4 million pixels, along with our HyperProcess™ de-interlacing algorithm producing the smoothest motion available on a TFT LCD. Video is scaled to fit on the screen in the highest possible resolution utilizing a state-of-the-art LSI with 6x6 pixel interpolation, precision gamma correction, and Match Color Conversion™ to produce the highest quality images available.

## 2 Features

<b>TFT-MegaPixel™ Display 1024x768 Dots (2.4 Million Pixels)</b>	All signals remain completely digital to provide the most exact images available.
<b>SD/HD SDI Input</b>	SMPTE 259M-C, 292M / ITU-R BT.601; 1080i/60,59.95,50; 1080psF/24,23.98; 1035i/60, 59.94; 720p/60,59.94,50,30,29.97,25
<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 interlaced images without smearing or sacrificing of temporal resolution with our proprietary interpolation algorithms. Images are then displayed at a sample rate equal to the frame rate.
<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 72% SMPTE color gamut
<b>OSD</b>	On screen display of Format and Ratio
<b>50,000 hour backlight life</b>	Backlights are the most common failure on a TFT/LCD monitor. This backlight system has an MTBF of 5 years and uses specially designed lamps to provide brighter images.
<b>Tally</b>	2 LEDs (Green, Red) per monitor

## 3 Standard Accessories

Accessories Supplied with the V-R1041DP-TE / V-R1042DP-TE

- User's manual
- "Brick" type 12VDC power supply with 2-pin twist-lock connector

## 4 Optional Accessories

<b>Articulating Arm</b>	<b>V-MG11043</b>		Attach monitor to 1/3" mounting hole
<b>Mount for IDX Batteries</b>	<b>V-R65-BA</b>		Use with V-Mount batteries
<b>Sun Hood</b>	<b>V-H10M</b>		Use for outdoor viewing or in brightly-lit areas
<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

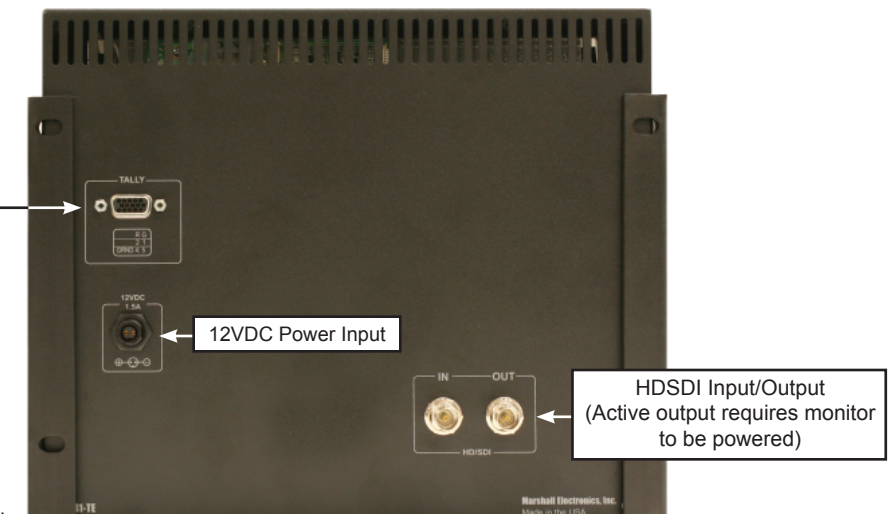
210 Plastic Cleaner & Polish and 210 Plus Cleaner <b>Sumner Laboratories</b> 186 Lincoln Street Boston, MA 02111 617-542-8656 / Fax: 617-482-9001	20/20 Plastic-Cleaner <b>Craftics, Inc.</b> PO Box 91930 Albuquerque, NM 87199 (505) 338-0005
Crystalclean <b>Discovery Plastics</b> 3700 Western Way, NE Millersburg, 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-R1041DP-TE / V-R1042DP-TE 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. The V-R1042DP-TE can be mounted in a standard EIA 19-inch rack. The rack ears on both the V-R1041DP-TE and V-R1042DP-TE can alternately be used as a table-top stand.
3. Connect required cables for signal input and output. Please note that power must be applied to the V-R1041DP-TE / V-R1042DP-TE for the video output to be activated. All BNC connectors should be rated for 75Ω.
4. Plug the V-PS12-5V-1 power supply into an A.C. source. Attach the 2-pin twist-lock power connector to the back of the monitor. Please note that DC power can be supplied directly to the monitor from a variety of sources, such as a battery adapter or vehicle power. In operation, the V-R1041DP-TE / V-R1042DP-TE will draw approx. 1. amp. Attach 2-pin twist-lock power connector from VPS12-5V-1 power supply to the back of the unit.
5. Turn on the V-R1041DP-TE / V-R1042DP-TE by pressing the power switch located on the front of the unit.












## 9 Input Connectors

Tally Pinout (HD-15)	
Pin No.	Signal
1	Green (Monitor 1)
2	Red (Monitor 1)
3	N/C
4	Ground
5	Ground
6	N/C
7	N/C
8	N/C
9	N/C
10	N/C
11	Green (Monitor 2)
12	Red (Monitor 2)
13	N/C
14	Ground
15	Ground



\* 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, can charge batteries plus operate monitor
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
Analog to Digital Converter	BC-0909-AD		Converts composite, Y/C, or YPbPr signals to HDSDI
Set of 3 Tripod Mount Brackets with screws	V-LCD70TMB-02		Fits all single screen 7.0", 8.4", 10.4" and V-R65P-HD monitors. Mounting plate can be installed to any side of monitor enclosure. Compatible with most 1/4-20 threaded mounting devices.
Cleaning Wipes	V-HWP-K		Package of 10 non-toxic, antistatic, alcohol and ammonia free cleaning wipes.

## 5 Electrical Specifications

Display (Viewing Area)	10.4 Inch diagonal (211.2mm W x 158.4mm H)
Screen Aspect	Native 4:3, Switchable to 16:9
Resolution (RGB Dots)	1024HxRGx768V (2.4 Million Pixels)
Viewing Angles	170°H x 170°V
Contrast Ratio	400:1
Dot Pitch	0.206mm square pixel
Pixel Response	13ms rise /12ms fall
Brightness	400 cd/m <sup>2</sup>
Backlight	Field Replaceable CCFL (50,000 hour half life)
Screen Treatments	Anti Reflection, Anti Glare, Hard Coat
Protective Screen	0.118" (3mm) thick Optical Grade Polycarbonate with Anti-Glare and Anti-Abrasion coatings. (600 Cheesecloth mil-M-13508C)
Estimated MTBF	5 years of 24/7 operation
Inputs	1 SDI/HDSI input per screen; SMPTE 259M-C, 292M / ITU-R BT.601; female BNC; 1080i/60,59.95,50; 1080psF/24,23.98; 1035i/60,59.94; 720p/60,59.94,50,30,29.97,25
Active Outputs	1 SDI/HDSI output per screen; SMPTE 259M-C, 292M / ITU-R BT.601; female BNC
Tally	2 LEDs (Green, Red) per monitor; female HD-15 connector
Color temperature	D65 (6500° Kelvin)
Color Gamut	SMPTE-C/EBU
Luma Linearity	Typical +/- 3% with 5 ire increments (0 to 10 ire)
Power Required	10.4 to 16.8 VDC
Power Consumption	18 watt nominal for V-R1041DP-TE, 36 watt nominal for V-R1042DP-TE
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
V-PS12-5V-1 Power Supply	14-10 VDC (Universal Voltage 5.0Amps max - UL Class 2 supply included)

## 6 Mechanical Specification

	V-R1041DP-TE	V-R1042DP-TE	V-PS12-5V-1 Power Supply
Dimensions (W x H x D) (Main body only)	10.25" x 8.56" x 1.60"	18.69" x 8.56" x 1.60"	4.13" x 2.50" x 1.25"
Approx. Weight	3.95 lbs	6.95 lbs	0.65 lbs

## 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.

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