Marshall Electronics

Advanced 6.5" and 7"

Portable Camera-Top / Field Monitors

Introduction

For almost three decades, **Marshall Electronics** has specialized in the development, manufacturing, and distribution of leading edge technology products for a wide range of professional Audio / Video applications. Marshall introduced one of the world's first LCD Broadcast monitors at NAB in 1999, when many of our competitors were nonexistent or unknown. Since then, Marshall's product offerings have grown to meet the demands of customers worldwide. We continue to offer the widest lineup of professional rack-mount and stand-alone LCD monitors in the industry.

Our products are designed, engineered, and assembled in the United States. Marshall's corporate office, R&D Center, and Production facilities are located within a few miles of Hollywood, Burbank, and Universal City, which make Los Angeles the "Entertainment Capital of the World." These products are designed specifically for the end-user *by end-users*, without compromise on service, quality, and innovation.

Marshall Electronics and its employees are dedicated to providing the highest quality and most technically advanced products with unparalleled customer service. Whether you're professional or just getting started, we hope you will continue to look to Marshall for all of your Audio / Video needs.

- Quality
- Innovation
- Experience
- Customer Service
- Designed, Engineered, and Assembled in the USA

This brochure features our advanced 6.5" and 7" Portable Field / Camera-Top monitors. These high-tech monitors are a great alternative to small-sized LCD screens and/or electronic viewfinders found on today's cameras. We understand that it's important to have the ability to monitor what you're capturing during the filmmaking process. This is why we designed and engineered these fully-featured monitors to offer portability, flexibility, and affordability. At Marshall, good things come in all sizes.

V-LCD70P-HDA — 7" Lightweight High Resolution Portable Field / Camera-Top Monitor

The **V-LCD70P-HDA** is the latest addition to Marshall's successful and popular line of portable field / camera-top monitors. This monitor introduces a new durable and light-weight design, weighing in at only 1.3 pounds. It also features our completely digital TFT-MegaPixel high resolution LCD screen with 1.2 million pixels, 4-pin XLR power jack, and optical grade polycarbonate screen protection. Analog signals are digitized using advanced 10-bit processing with 4x oversampling and adaptive 5-line comb filter. This monitor also includes a variety of screen formats and markers, four user-configurable front panel function buttons, RGB Check Field / Field Detect and RGB gain and bias control. Two other major features include Marshall's new False Color and Peaking filters. A variety of battery adapters are available for each configuration*.

- **High resolution 800 x 480 LCD panel**
- **Durable, thin, and lightweight construction**
- **250 cd/m² brightness, 400:1 contrast ratio**
- **4 user-configurable function buttons**
- **Scratch Resistant Protective Screen**
- **RGB gain and bias control**
- **False Color On/Off**
- **Peaking Filter On/Off**
- **RGB Check Field/Field Detect**
- **15:9, 16:9, 4:3, Pixel-to-Pixel modes**
- **Variety of Markers**
- **Variety of User-Replaceable Battery Adapters available***

1.2 TFT MEGAPIXEL

Specifications

Display (Viewing Area)	7.0-inch Diagonal (6.496" x 4.118") (165mm x 104.6mm)	Dimensions	6.84"w x 5.67"h x 1.57"d (173mm x 143 mm x 40 mm)
Resolution (Pixels)	800 x 480	Power Consumption	Approx. 12W (12V @ 3.3A power supply included)
Viewing Angle	L/R: 140° / U/D: 100°	Weight (approx.)	1.3 lbs. (0.590 kg)
Pixel Pitch (mm)	0.1905mm(H) x 0.1905mm(V)	Available Battery Adapter Configurations*	User-Replaceable Battery Adapters
Brightness (cd/m²)	250		"CM" - (Canon), "JM" - (JVC), "PM" - (Panasonic), "PV" - (Panasonic)
Contrast Ratio	400:1		"SB" - (Sony B series), "SL" - (Sony L series), "SM" - (Sony M series)
Inputs	Composite x 1, Component x 1		Non User-Replaceable Battery Adapters*
Loop-through outputs	Composite x 1, Component x 1		"AB" - (Anton/Bauer) / "VM" - (V-Mount)

*V-Mount ("VM") and Anton/Bauer ("AB") battery configurations require factory installation and are NOT user-replaceable. There is also a cost difference with larger batteries.

V-LCD70P-HDMI — 7" Lightweight High Resolution Portable Field / Camera-Top Monitor

The **V-LCD70P-HDMI** offers the same great features found in our entry level HDA model, but provides an HDMI input for added flexibility. It also features our completely digital TFT-MegaPixel high resolution LCD screen with 1.2 million pixels, 4-pin XLR power jack, and optical grade polycarbonate screen protection. Analog signals are digitized using advanced 10-bit processing with 4x oversampling and adaptive 5-line comb filter. This monitor also includes a variety of screen formats and markers, four user-configurable front panel function buttons, RGB Check Field / Field Detect and RGB gain and bias control. Two other major features include Marshall's new False Color and Peaking filters. A variety of battery adapters are available for each configuration*.

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Loop-through outputs	Composite x 1, Component x 1		"AB" - (Anton/Bauer) / "VM" - (V-Mount)

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V-LCD70P-3GSDI — 7" Lightweight High Resolution Portable Field / Camera-Top Monitor

The **V-LCD70P-3GSDI** offers the same great features found in our entry level HDA model, but adds a 3G/HD/SD input for compatibility with uncompressed 1080p digital cinema and television formats. It also features our completely digital TFT-MegaPixel high resolution LCD screen with 1.2 million pixels, 4-pin XLR power jack, and optical grade polycarbonate screen protection. Analog signals are digitized using advanced 10-bit processing with 4x oversampling and adaptive 5-line comb filter. This monitor also includes a variety of screen formats and markers, four user-configurable front panel function buttons, RGB Check Field / Field Detect and RGB gain and bias control. A variety of battery adapters are available for each configuration*.

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- **False Color On/Off**
- **Peaking Filter On/Off**
- **RGB Check Field/Field Detect**
- **15:9, 16:9, 4:3, Pixel-to-Pixel modes**
- **Variety of Markers**
- **Variety of User-Replaceable Battery Adapters available***

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Loop-through outputs	Composite x 1, Component x 1, 3G/HD/SDI x 1		"AB" - (Anton/Bauer) / "VM" - (V-Mount)

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SUPER TRANSFLECTIVE

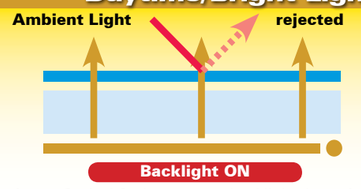
OUTDOOR MONITORS

Designed specifically for outdoor applications and challenging viewing environments

Proprietary Optical Surface technology passes backlight, but rejects ambient light while minimizing surface reflection

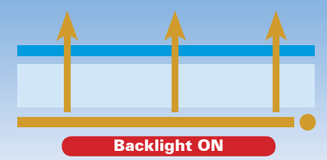
Marshall Electronics offers a full line of **Super Transflective Outdoor Monitors**, designed specifically for outdoor applications with high ambient light. Our technology minimizes surface reflection of both outdoor and indoor light, while featuring a much wider color reproduction range than typical transflective/reflective LCDs or even those with increased backlight performance. These outdoor super-transmissive LCDs provide improved visibility by producing high-contrast images and a wider viewing angle, even under diverse and challenging lighting environments. This innovative technology dramatically boosts the efficiency of the LCD backlight's light utilization, while maintaining extended temperature ratings and low power consumption for outdoor operation.

Daytime/Bright Light



Proprietary Optical Surface passes backlight, but rejects ambient light.

Nighttime/Weak Light



Proprietary Optical Surface passes backlight.

V-LCD651ST-HDA — 6.5" Lightweight High Resolution Super Transflective Portable Field / Camera-Top Monitor

2.4 TFT MEGAPIXEL

The **V-LCD651ST-HDA** base model introduces a new durable and lightweight design, weighing in at only 1.3 pounds. It also features our completely digital TFT-MegaPixel high resolution LCD screen with 2.4 million pixels, 4-pin XLR power jack, and optical-grade polycarbonate screen protection. Analog signals are digitized using advanced 10-bit processing with 4x oversampling and adaptive 5-line comb filter. This monitor also includes a variety of screen formats and markers, four user-configurable front panel function buttons, RGB Check Field / Field Detect and RGB gain and bias control. Two other major features include Marshall's new False Color and Peaking filters. A variety of battery adapters are available for each configuration.*

- **Super Transflective 1024 x 768 LCD panel**
- **Durable, thin, and lightweight construction**
- **650 cd/m² brightness, 500:1 contrast ratio**
- **4 user-configurable function buttons**
- **RGB gain and bias control**
- **Optional Heavy-Duty Protective Shield**
- **False Color On/Off**
- **Peaking Filter On/Off**
- **RGB Check Field/Field Detect**
- **16:9, 4:3, Pixel-to-Pixel modes**
- **Variety of Markers**
- **Variety of User-Replaceable Battery Adapters available***

Specifications

Display (Viewing Area)	6.5-inch Diagonal (132.096mm x 99.072mm)	Dimensions	6.8"w x 6.0"h x 1.9"d
Resolution (Pixels)	1024 x 768	Power Consumption	Approx. 15W (12V @ 5A power supply included)
Viewing Angle	L/R: 160° / U/D: 140°	Weight (approx.)	1.3 lbs. (0.590 kg)
Pixel Pitch (mm)	0.129mm(H) x 0.129mm(V)	Available Battery Adapter Configurations*	User-Replaceable Battery Adapters
Brightness (cd/m²)	650		"CM" - (Canon), "JM" - (JVC), "PM" - (Panasonic), "PV" - (Panasonic)
Contrast Ratio	500:1		"SB" - (Sony B series), "SL" - (Sony L series), "SM" - (Sony M series)
Inputs	Composite x 1, Component x 1		Non User-Replaceable Battery Adapters*
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V-LCD651ST-HDMI — 6.5" Lightweight High Resolution Super Transflective Portable Field / Camera-Top Monitor

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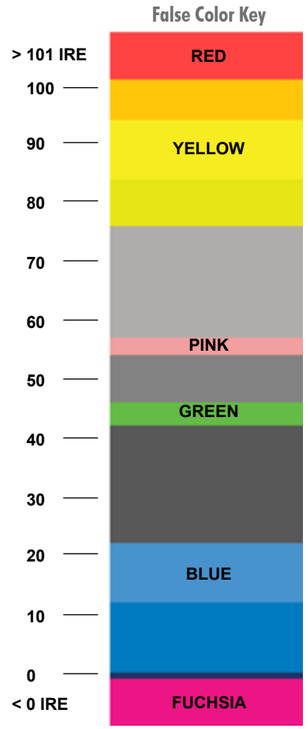
Feature Explanation

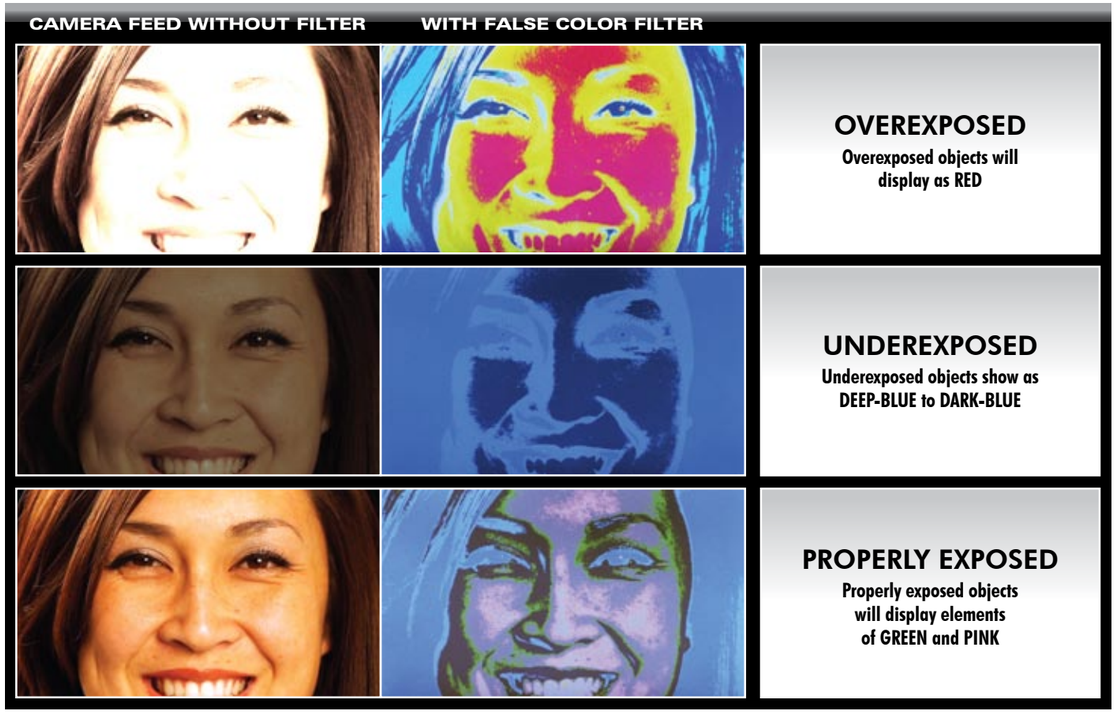
False Colors

The **False Color** filter is used to aid in the setting of camera exposure.

As the camera Iris is adjusted, elements of the image will change color based on the luminance or brightness values. This enables proper exposure to be achieved without the use of costly, complicated external test equipment.

To best utilize this feature, you must understand the color chart and have a basic understanding of camera exposure. Normally, when shooting subjects like people, it is common practice to set exposure of faces to the equivalent of approximately 56 IRE. The False Color filter will show this area as the color PINK on the monitor. Therefore, as you increase exposure (open the IRIS), your subject will change color as indicated on the chart: PINK, then GREY, then a few shades of YELLOW. Overexposed subjects (above 101 IRE) on the monitor will be shown as RED. In addition, underexposed subjects will show as DEEP-BLUE to DARK–BLUE, with clipped-blacks indicated with a FUCHSIA-like color. Lastly, the color GREEN is used to indicate elements of the image that are approximately 45 IRE. This represents a “neutral” or “mid-level” exposure commonly used for objects (not people).





Peaking Filter (Focus Assist)

The **Peaking Filter** is used to aid the camera operator in obtaining the sharpest possible picture. When activated, all color will be removed from the display and a black-and-white image will remain. The internal processor will display RED color on the screen where sharp edges appear. When the camera operator adjusts (or “racks”) the focus control (on the camera lens), different parts of the image will have RED colored edges. This indicates that this portion of the image is sharp or in focus. Final focus is achieved by racking the camera lens focus control back and forth until the desired portion of the image has RED colored edges. Please note that this feature is most effective when the subject is properly exposed and contains enough contrast to be processed.

Accessories

Optional Heavy-Duty 6.5” Protective Shield
V-LCD-PS65

Camera Hot Shoe Mount
V-LCD-MT-01

Camera Mounts
V-NF1105
V-DG1108-CA
V-MG1106

HDMI Extender
V-X-HDMI

6.5" and 7" Monitor Battery Compatibility

MARSHALL MOUNTING PLATE ADAPTER	BATTERY TYPE	RECOMMENDED BATTERY / VOLTAGE
Field-Interchangeable Battery Adapter Options		
 **CM** **Part # 0071-1307-A**	 **Canon**	**Canon BP-970G** **7.2V**
 **JM** **Part # 0071-1308-A**	 **JVC**	**JVC BN-V438U** **7.2V**
 **PM** **Part # 0071-1306-A**	 **Panasonic**	**Panasonic CGA-D54** **7.2V**
 **PV** **Part # 0071-1309-A**	 **Panasonic**	**Panasonic VW-VBG6** **7.2V**
 **SB** **Part # 0071-1305-A**	 **Sony B Series**	**Sony BP-460** **14.4V**
 **SM** **Part # 0071-1304-A**	 **Sony M Series**	**Sony NP-QM91** **7.2V**
 **SL** **Part # 0071-1303-A**	 **Sony L Series**	**Sony NP-F970** **7.2V**
Factory Configured Battery Adapter Options*		
 **AB** ***(Uses Anton Bauer Gold Mount plate)*** **Part # V-ABA-02**	 **Anton Bauer**	**Anton Bauer Hytron 50** **14.4V**
 **VM** ***(Uses IDX plate with riser)*** **Part # IDX-M-EB-RAW**	 **V-Mount**	**IDX E75** **14.4V**

Features, specifications, pricing and dimensions are subject to change without notice. Physical appearance of products may vary slightly from images shown in this brochure. Please visit LCDRACKS.com for updates and information.

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