Marshall Electronics

Model No. V-LCD70W-SH

7" 3G-SDI / HDMI Professional Camera-Top Monitor

Operating Instructions

Ver. 1.0

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IMPORTANT SAFETY INSTRUCTIONS:

The V-LCD70W-SH has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment, the V-LCD70W-SH should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Please do not place the display screen towards the ground to avoid scratching the LCD surface.
- Please avoid heavy impact.
- Please do NOT use chemical solutions to clean this product. Simply wipe with a clean soft cloth to maintain the brightness of the surface.
- Please do not block any vent hole.
- Please follow the instructions and trouble-shooting to adjust the product.
- Internal adjustments or repairs must be performed by a qualified technician.

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1. Installation & Initial Setup

Unpacking

Carefully unpack the V-LCD70W-SH monitor and verify that the following items are included:
- V-LCD70W-SH Monitor
- 12V-2A Power Supply
- Operating Instructions
- Sun Hood

Supplied mounting screws:
- KM2.5*6MM x4 (used for Marshall base plate Part# 0032-1308A)
- PM2.5*12MM x4 (used for Marshall VM mount Part# 0032-1301A for IDX battery)
- PM4*6MM x4 (used for VESA mount screw holes)

Inspect the unit for any physical 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.

Connections, Power-On and Initial Setup

a. Plug the power supply into an AC power source (100-240 V @ 50/60 Hz).
b. Attach the Power connector to the back of the monitor.
c. Connect the required cables for video signal input and output.
d. Press the Power button to turn the unit on, then press Input to select either HDMI or SDI source as derived.

2. Top & Front Panel Features

1 **F1~F3** user-defined function buttons.
   Shortcut: Long press on any function button (3-5 seconds) pops up menu for setting.
   Press Up/Down buttons to choose settings, then press the Menu button to confirm the
   selection.
   Functions of F1-F3 buttons can be set to:
   > Center Marker, Aspect Marker, Check Field, Underscan, Scan, Aspect, DSLR, Freeze,
   > H/V delay, Peaking, False Color, Exposure, Histogram, Level Meter, Waveform and Time
   > Code.
   > Default function: F1: Waveform F2: Scan F3: Aspect

2 **POWER** button

3 **Battery indicator light.** (Red light - OFF mode, green light - Operating mode).

4 **INPUT:** Switch between SDI and HDMI.

5 ▲/▼ Select option in the menu. Increase or decrease the option value.

6 **Menu:** Select button

7 **Headphone jack.** Accepts standard 3.5mm mini-phone plug.

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3. Rear Panel Features

1. **Serial Digital "BNC" Connectors**
   SDI input and loop out. Conversion is possible between HDMI and SDI inputs. See System section of menu. Compatible with SDI, HD SDI and 3G SDI inputs. Embedded audio may be monitored at the Headphone jack and visually monitored on-screen.

2. **TALLY Connector**
   The tally light above each monitor is controlled by grounding the appropriate pin on the Tally connector as shown in the table.
   Caution: External power should never be applied to the Tally connector.

G	R	Y
1	2	3
GND: 4		

3. **HDMI Digital Video Connectors**
   HDMI input and loop out. Conversion is possible between HDMI and SDI inputs. See System section of menu. Embedded audio may be monitored at the Headphone jack and visually monitored on-screen.

4. **Power Connector.** DC power input.

4. Compatible Input Formats

3G-HD-SDI Input
525i/59.94, 60, 625i/50
720p/25, 29.97, 30, 50, 59.94, 60
1080p/23.98, 23.98sF, 24, 24sF, 25, 29.97, 30
1080i/50, 59.94, 60

3G – Level A
1080p/ 60, 59.94, 50

HDMI Input
480p59.94, 576p50
720p/25, 29.97, 30, 50, 59.94, 60
1080p/23.98, 23.98sF, 24, 24sF, 25, 29.97, 30
1080p/ 50, 59.94, 60
1080i/50, 59.94, 60

HDMI / SDI Conversions
480i59.94, 576i50
720p/25, 29.97, 30, 50, 59.94, 60
1080p/23.98, 23.98sF, 24, 24sF, 25, 29.97, 30
1080p/ 50, 59.94, 60
1080i/50, 59.94, 60

5. Main Menu & Navigation

1. **Using the menu buttons**

   When power on, press "MENU" on the device. The menu will display on the screen.

   Press ▲ / ▼ button to choose menu item

   Then press "MENU" button to confirm

ITEMS	OPTIONS
Exit	
Video Configuration	Brightness, Contrast, Saturation, Sharpness, Color Temp, R Gain, G Gain, B Gain, R Offset, G Offset, B Offset
Marker Configuration	Center Marker, Aspect Marker, Safety Marker, Marker Color, Marker Mat, Thickness.
Function Configuration	Scan, Aspect, Underscan, H/V Delay, Check Field, Zoom, Freeze,3G Format, DSLR
Waveform Configuration	Waveform, Waveform Trans, Peaking, Peaking Color, Peaking Level, False Color, Exposure, Exposure Level, Histogram, Time Code
Audio Configuration	Volume, Level Meter, Audio Ch
System Configuration	Language, HDMI/SDI Convert, Color Bar, Menu Timer, Image Flip, Back Light, Fan, Reset, Version

VIDEO

Exit
Brightness 50
Contrast 50
Saturation 50
Sharpness 0
Color Temp 6500K°
Red Gain 128
Green Gain 128
Blue Gain 128
Red Offset 255

ITEMS	OPTIONS		
Exit			
Brightness	0~100		
Contrast	0~100		
Saturation	0~100		
Sharpness	0~100		
Color Temp	5500ºK / 6500ºK / 7500ºK / 9300ºK / User		
	R Gain	0-255	Note: Only available under "User" mode to meet the color value you need.
	G Gain	0-255	
	B Gain	0-255	
	R Offset	0-511	
	G Offset	0-511	
	B Offset	0-511	

MARKER

Exit
Center Marker Off
Aspect Marker Off
Safety Marker Off
Marker Color Red
Marker Mat Off
Thickness 2

ITEMS	OPTIONS
Exit	
Center Marker	On, Off
Aspect Marker	Off, 3: 2, 4:3, 2.35:1, 1.85:1, 16:9
Safety Marker	Off, 80%, 85%, 88%, 90%, 93%, 95%
Marker Color	Red, Green, Blue, White, Black
Marker Mat	Off, 1~7
Thickness	2, 4, 6

FUNCTION

Exit
Scan Zoom
Aspect 1.85:1
Underscan Off
H/V Delay Off
Check Field Off
Zoom ×2
Freeze Off
3G Format Normal

ITEMS	OPTIONS
Exit	
Scan	Pix.To Pix. Zoom, Aspect,
Aspect	16:9, 1.85:1, 2.35:1, 4:3, 3:2, Full
Underscan	On, Off
H/V Delay	Off, H, V, H/V
Check Field	Off, Red, Green, Blue
Zoom	×2, ×3, ×4, ×5, ×6, ×7, ×8
Freeze	ON, Off
SDI INPUT 3G Format	Normal, GBRA444 10Bit, YCbCrA444 10Bit, YCbCrA422 12Bit, GBR444 12Bit, YCbCr444 12Bit
HDMI INPUT DSLR	5D3 5D2 DSLR MODE OFF

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Waveform

Exit
Waveform — Multi
Waveform Trans. — Off
Peaking — Off
Peaking Color — Red
Peaking Level — 50
False Color — Off
Exposure — Off
Exposure Level — 85
Histogram — Y

ITEMS	OPTIONS
Exit	
Waveform	Off, Multi, Y, YCbCr, RGB
Waveform Trans.	Off, 20%, 50%
Peaking	On, Off
Peaking Color	Red, Green , Blue, White
Peaking Level	0~100
False Color	On, Off
Exposure	On, Off
Exposure Level	0~100
Histogram	Y, RGB, Color
TimeCode (SDI Input Only)	Off, VITC, LTC

AUDIO

Exit
Volume — 50
Level Meter — Off
Audio Ch — Ch1&Ch2

ITEMS	OPTIONS
Exit	
Volume	0~100
Level Meter	On, Off
Audio Ch	Ch1&Ch2, Ch3&Ch4, Ch5&Ch6, Ch7&Ch8,

SYSTEM

Exit
Language — English
HDMI/SDI Convert — Off
Color Bar — Off
Menu Timer — 10s
Image Flip — Off
Back Light — 100
Fan — Low
Reset — Off
Version — V1.3

ITEMS	OPTIONS
Exit	
Language	English, Chinese
HDMI/SDI Convert	On, Off
Color Bar	On, Off
Menu Timer	10s, 20s, 30s
Image Flip	Off, H, V, H/V
Back Light	0~100
Fan	Off, Low, High
Exposure Level	On, Off
Version	V1.3

6. Specifications

PANEL	Screen Size	7" Diagonal
	Aspect Ratio	16:10
	Resolution	1920 x 1200
	Viewing Angle (h x v)	170° x 170° (H/V)
	Brightness	450 cd/m^2
	Contrast Ratio	1000:1
VIDEO INPUT / OUTPUT*	3G-HD-SDI Input / Output	2 x BNC Female (75 Ω)
	HDMI Input / Output	2 x HDMI Female
CONNECTORS	HDMI Video Input HDMI Video Output 3G-HD-SDI Video Input 3G-HD-SDI Video Output	
Tally Hardware Interface	HD-15 Female	
Stereo Headphone Jack	1/8" (3.5mm) Female Jack	
Power Input	DC Connector	
ELECTRICAL	Power Consumption	1.1A @ 12VDC (13 W)
	Voltage Requirement	12 VDC (7 – 15VDC)
MECHANICAL	Weight	1.20 lbs
	Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
	Storage Temperature	-22°F ~ 158°F (-30°C ~ 70°C)
DIMENSIONS (H x W x D)	125mm x 196mm x 28.2mm / 4.9" x 7.7" x 1.11"	

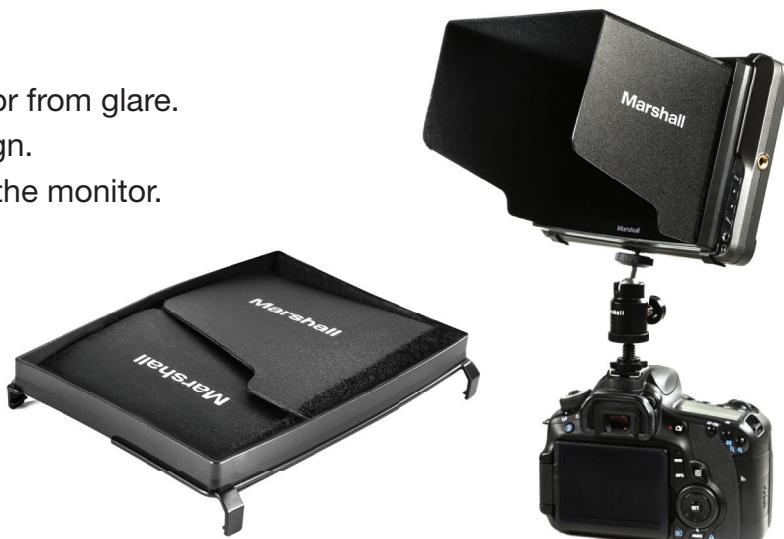* Maximum 1 loop out for the best result

TALLY HARDWARE INTERFACE (HD-15)

Activation requires contact closure of pin to ground on the HD-15 connector:

Pin No.	Signal
1	Green
2	Red
3	Yellow
4	Ground
5	NC
6	N/C
7	N/C
8	N/C
9	N/C
10	N/C
11	N/C
12	N/C
13	N/C
14	N/C
15	N/C

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7. Sun Hood Installation

Sun Hood is designed for use with
V-LCD70W-SH to shield the monitor from glare.
It features three-sided folding design.
Snap the Sun Hood to the front of the monitor.

8. Included Accessories

1. Sun Hood
2. DC 12V Power adapter
3. Operations Manual

9. Troubleshooting

1. Power on, but no picture:
Check whether the cables are correctly connected. Also, please use the standard power adapter coming with the product package or other power supply with the correct voltage and pin configuration.

2. Only black-and-white display:
Check whether the color saturation and brightness are properly set. Access the Video menu and make sure Check Field is Off

3. Wrong or abnormal colors:
Check whether the cables are correctly connected. Broken or loose pins of the cables may cause a bad connection. Access the Waveform menu and make sure False Color is off.

4. Picture is "stuck" on screen:
Access the Video menu page and check that FREEZE INPUT is off.

5. Other problems:
The monitor can be reset to Factory original settings. This is sometimes useful to eliminate the possibility that an improperly set menu item is interfering with the operation. To reset the monitor, access the "System Configuration" menu page, press the Menu knob then rotate left or right to select "Reset". Press the knob once then rotate the knob to cause the unit to reset.

10. Maintenance

Screen Cleaning

Periodically clean the screen surface using ammonia-free cleaning wipes (Marshall Part No. V-HWP-K). A clean micro-fiber cloth can also be used using only non-abrasive and ammonia-free cleaning agents. Do not use paper towels. Paper towel fibers are coarse and may scratch the surface of the polycarbonate faceplate or leave streaks on the surface. Antistatic and fingerprint resistant cleaning agents are recommended. Do not apply excessive pressure to the screen to avoid damaging the LCD.

Faceplate Dusting

Dust the unit with a soft, damp cloth or chamois. Dry or abrasive cloths may cause electrostatic charge on the surface, attracting dust particles. Neutralize static electricity effects by using the recommended cleaning and polishing practice.

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11. Warranty

Marshall Electronics warranties to the first consumer that this V-LCD70W-SH LCD 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 the consumer. This warranty does not apply to the product exterior or cosmetics. Misuse, abnormal handling, alterations or modifications in design or construction void this warranty. It is considered normal for a minimal amount of pixels, not to exceed three, to fail on the periphery of the display active viewing area. Marshall Electronics reserves the option to refuse service for display pixel failure if deemed unobtrusive to effective use of the monitor by our technicians.

No sales personnel of the seller or 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.

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