Marshall Electronics
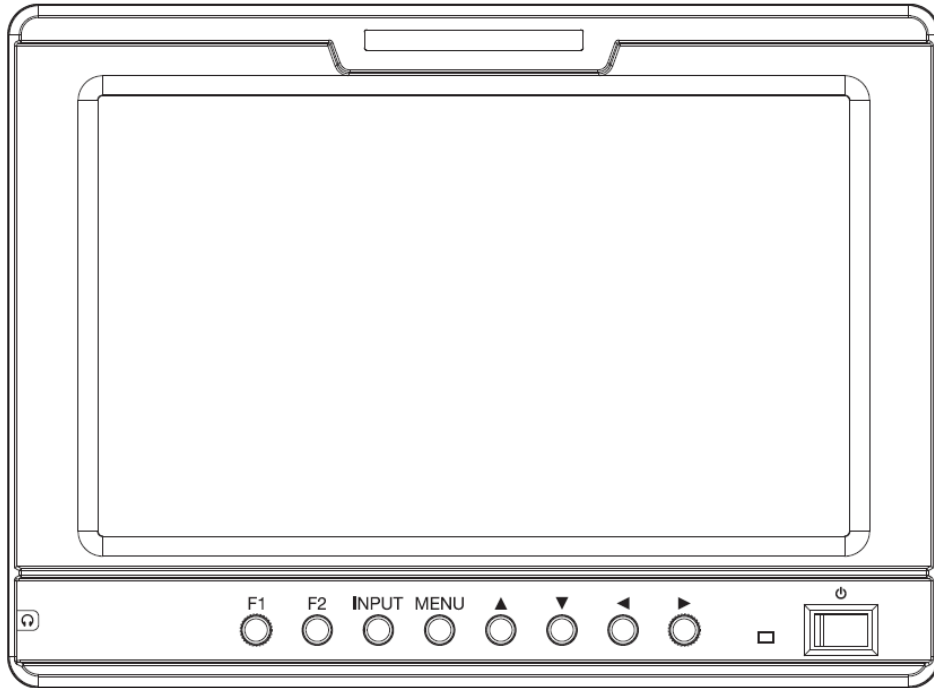
Model V-LCD70-AFHD

Operating Instructions

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■   **Included Accessories**

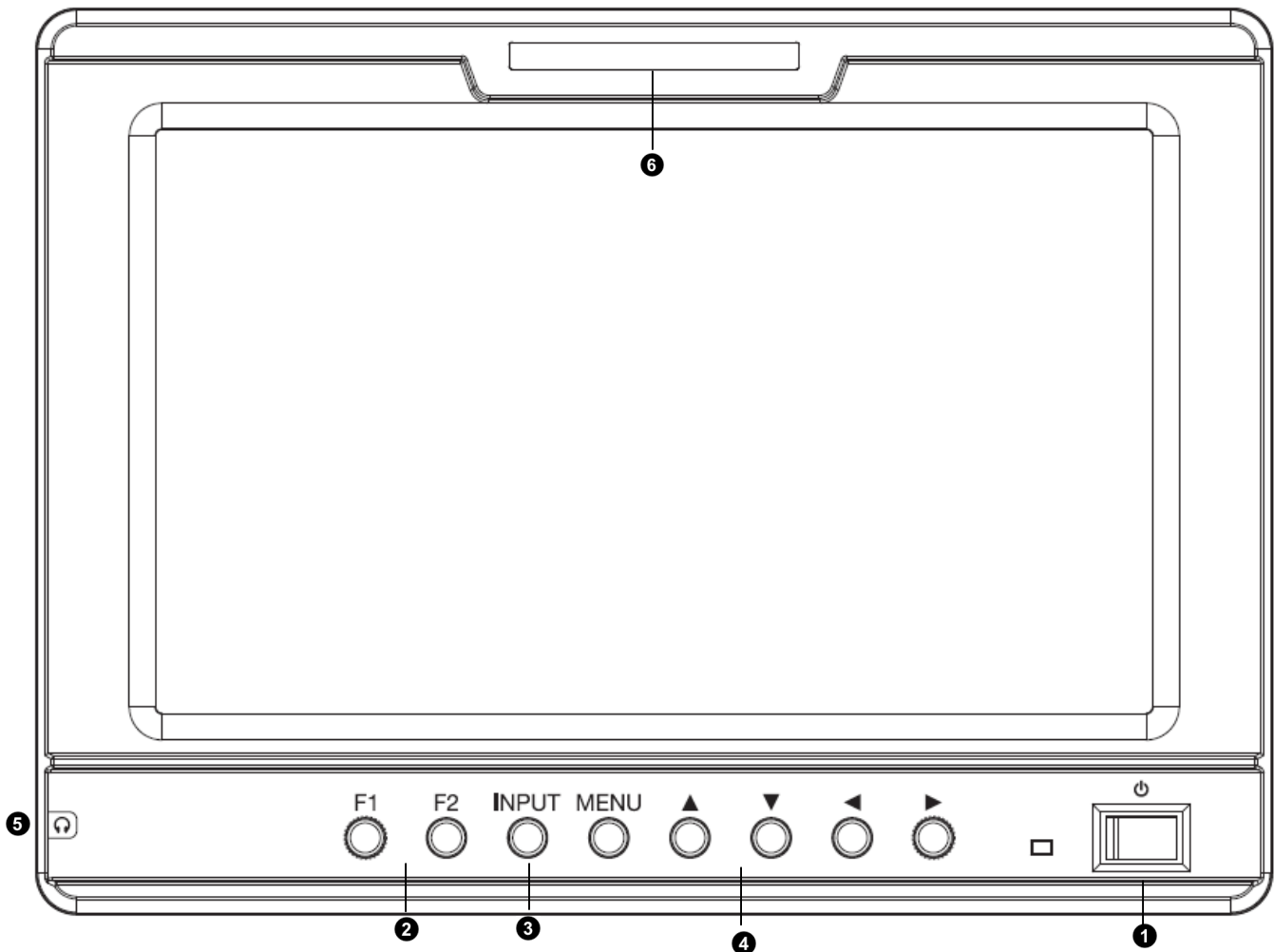Carefully unpack the V-LCD70-AFHD monitor and verify that the following items are included:

• V-LCD70-AFHD Monitor
• 12V 1.5A XLR Power Supply

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**

Plug the power supply into an AC power source (100-240 V @ 50/60 Hz). Attach the Power connector to the back of the monitor. Connect the required cables for video signal input and output. (Power must be applied to the V-LCD70-AFHD for the active loop-though output to be activated). Press the power switch on the front of the unit. Video will automatically be detected and displayed on the screen after selecting the proper input.

Top and Front Panel Features

❶ **Power Switch**

This power switch controls power to the monitor from the DC Power Connector or the custom Battery Adaptor. The monitor will always attempt to draw power from the DC connector first if both the DC Power Connector and a Battery are installed simultaneously. This switch turns the panel on or off.

❷ **Function Buttons**

Two user-definable function buttons can be used for direct access to various settings. Functions are assigned using the on-screen menu.

❸ **Input Select Button**

Use the Input select button to switch between the different available video inputs.

❹ **Menu Navigation Buttons**

Use the Menu, ↑, ↓, ←, → buttons to display and navigate the on-screen menu.
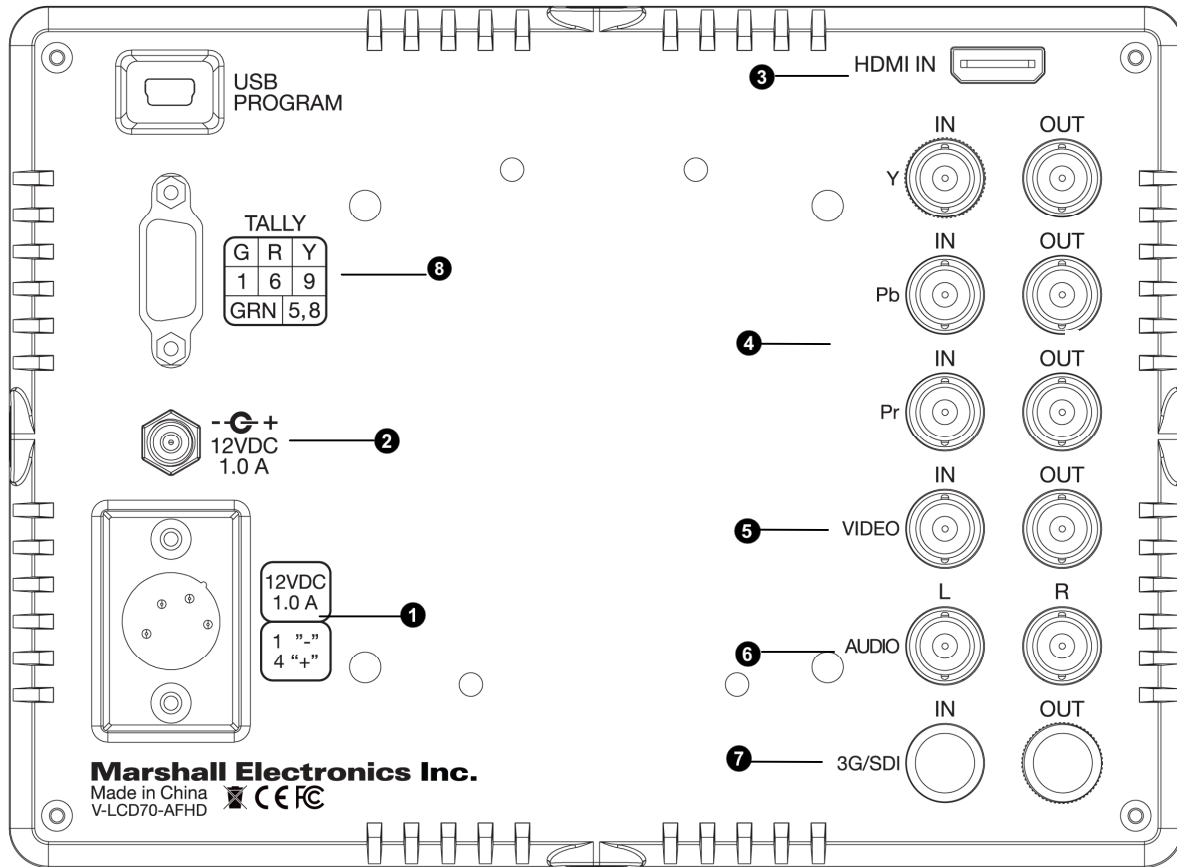
❺ **Stereo Headphone Jack**

The 1/8" Headphone jack on monitor's side takes two channels of embedded (or analog) audio and provides audio to connected headphones.

❻ **Tally LED**

The Tally LED is illuminated, either Green, Red or Yellow, by connecting the appropriate pin on the tally connector to Ground.

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Rear Panel Features

❶ **Power Connector (XLR)**
Insert the included XLR Power Supply end here. Power can be supplied from the included power supply or from a variety of DC sources supplying the appropriate voltage.

❷ **Power Connector (Coax)**
Additional connector for Coaxial Power Supplies. Insert the coax end here, and tighten the locking nut for additional protection from the cord being accidentally unplugged. If using a third party power supply, it should have a 5.5mm OD x 2.0mm ID.

❸ **HDMI Input**
The V-LCD70-AFHD has one HDMI input that is HDCP compliant. See Compatible Input Formats for details on accepted formats.

❹ **Component (YPbPr) Input / Output**
The V-LCD70-AFHD has one Component video input and one loop through output.

❺ **Composite (Video) Input / Output**
The V-LCD70-AFHD has one Composite video input and one loop through ouput.

❻ **Stereo Audio Output**
The V-LCD70-AFHD has Left and Right Analog outputs. Access these via the RCA connector inputs.

❼ **SDI (3G/SDI) Input / Output**
The V-LCD70-AFHD has one SDI input (up to 3G SDI formats) and one loop through output.

❽ **Tally connector**
Use the Tally connector, with associated pinout diagram, to illuminate the front Tally LED.

USB Program
The USB Program connector is for Upgrade and Factory use only. Do NOT plug a USB cable into this connector without first calling Marshall Electronics.

Compatible Input Formats

Composite (Video)
NTSC
PAL

Component (YPbPr)
720p/50, 59.94, 60
1080p/23.98, 24, 25, 29.97, 30
1080i/50,59.94,60

HDMI
720p/50,59.94,60
1080p/23.98, 24, 25, 29.97, 30
1080i/50,59.94,60
1080p/50,59.94,60
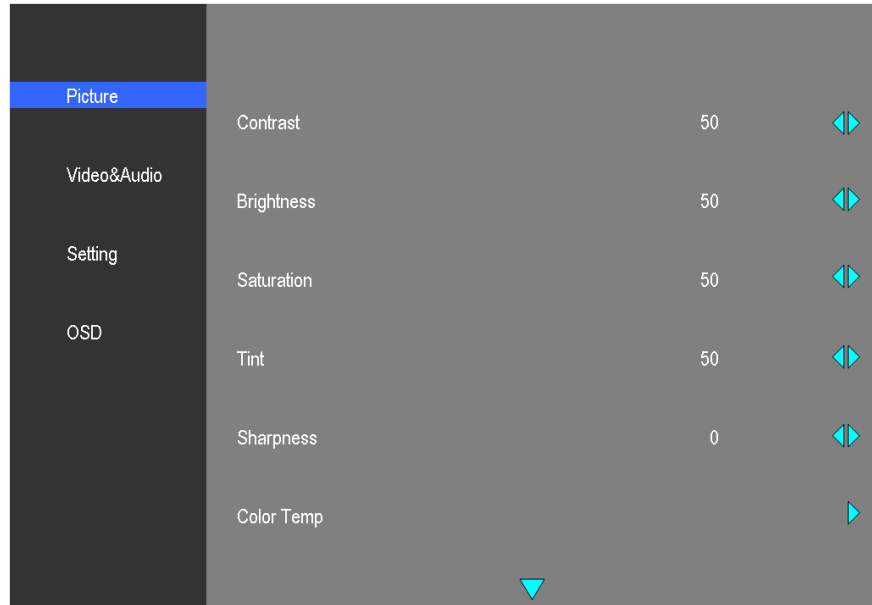
3G-SDI
480i, 576i
720p/50,59.94,60
1080p/23.98, 24, 25, 29.97, 30
1080i/50,59.94,60
1080p/50,59.94,60 (3G Level A)

MAIN MENU AND NAVIGATION

Access and navigate the main menu using the Menu button on the keypad:

Picture	Contrast	50	◀▶
Video&Audio	Brightness	50	◀▶
Setting	Saturation	50	◀▶
OSD	Tint	50	◀▶
	Sharpness	0	◀▶
	Color Temp		▶
	▽		

Using the Menu buttons

- Press the MENU button to enter the main menu.
- Use the ↑ and ↓ buttons to scroll through the main menu or each submenu.
- Press the ← and → button to enter a submenu or choose a setting.
- Press the MENU button to exit the main menu, or return to the main menu from a submenu.

Picture Submenu

Contrast (0-100, 50 = default)
Brightness (0-100, 50 = default)
Saturation (0-100, 50 = default)
Tint (0-100, 50 = default)
Sharpness (0-100, 0 = default)
Color Temp (6500K = default)
      6500K
      7300K
      9300K
      User (0-255, 128 = Default)
            Color TempR

Color TempG
Color TempB

Picture Mode
>   **Standard** (Contrast, Brightness, Saturation and Tint = 50)
>   **Soft** (Contrast = 40, Brightness, Saturation = 45)
>   **User** (User Defined settings)
>   **Vivid** (Contrast = 60, Brightness = 55, Saturation = 75)

Aspect Ratio
>   **Full Screen** (Image is scaled across the entire screen)
>   **4:3** (Image is displayed in a 4:3 aspect ratio)
>   **16:9** (Image is displayed in a 16:9 aspect ratio)
>   **14:9** (Image is displayed in a 14:9 aspect ratio)
>   **Zoom1** (Scale 45% of the image across the entire screen)
>   **Zoom2** (Scale 50% of the image across the entire screen)

Video & Audio Submenu

Peaking (Superimpose red highlight over parts of the image that are in focus)
>   **Mode1** (red highlight over parts of the image in focus)
>   **Mode2** (red highlight over parts of the monochrome image in focus)

False Colors (Adds visual filtering to determine IRE levels in the image according to the chart below)

Exposure (Adds red-striped overlay to areas of the image that may be overexposed)
Histogram (Display a histogram on the bottom right corner of the display)
Squared Segmentation (OFF = default)
Screen Markers (OFF = Default)
>   **OFF**
>   **96%**
>   **93%**
>   **90%**
>   **85%**
>   **80%**

Center Marker (Places cross-hairs at the center of the display)
Check Field
>   **OFF** (Contrast, Brightness, Saturation and Tint = 50)
>   **Mono** (Images displayed in monochrome)
>   **Red** (Only red colors in image are seen)
>   **Green** (Only green colors in image are seen)
>   **Blue** (Only blue colors in image are seen)

H/V Delay (Picture is shifted horizontally and vertically to check for ancillary data, HANC and VANC in SDI signals)
Scan Mode

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Standard (Normal image display)

Overscan (Displays 95% of the image to avoid showing ancillary data "artifacts")

Underscan (Displays all available image data, including ancillary data "artifacts")

Volume (0 – 100 , 50 = Default)

Balance (-10 - +10 , 0 = Default)

Audio Meter (Displays an audio meter with the first two channels of available audio)

Setting Submenu

Image Flip (Flip image display)

V (Flips the entire image vertically)

H (Flip the entire image horizontally)

V/H (Flip the image vertically and horizontally, or 180°)

PIP (Picture in Picture, allowing the display of two images on the screen simultaneously)

PIP Mode

OFF

Small (Small secondary image)

Medium (Medium secondary image)

Large (Large secondary image)

PBP

POP

PIP Source

AV (Composite video input is selected as the second image)

Component (Component video input is selected as the second image)

PIP Position

Upper Left

Upper Right

Lower Left

Lower Right

PIP Swap (Swap position of the main image with the position of the second image)

F1 (Places cross-hairs at the center of the display)

F2

OFF (Contrast, Brightness, Saturation and Tint = 50)

Mono (Images displayed in monochrome)

Red (Only red colors in image are seen)

Green (Only green colors in image are seen)

Blue (Only blue colors in image are seen)

Language (English, Espanol, English = Default)

Reset (Return all settings to the Manufacturer Default settings)

OSD Submenu

Horizontal Position (0-10, 5 = Default)
Vertical Position (0-10, 5 = Default)
Horizontal Size (0,3,5,7,10, 5 = Default)
Vertical Size (0,3,5,7,10, 5 = Default)
OSD Horizontal Position (0-100, 50 = Default)
OSD Vertical Position (0-100, 50 = Default)
Menu Transparency (0-10, 0 = Default)
OSD Timeout (5 sec,10 sec,15 sec,60 sec, 5 sec = Default)

Specifications

- **PANEL**

Screen Size	7" Diagonal
Display Area (h x v)	153.6 x 90 mm
Pixels	1024 x RGB x 600
Brightness	500 cd/m2
Contrast Ratio	700:1

- **CONNECTORS**

  HDMI Video Input
  1 x HDMI Female Receptacle

  Stereo Headphone Jack
  1/8" (3.5mm) Female Jack

  Video Input / Output
  1 x BNC Female connector (Video Input)
  1 x BNC Female connector (Video Output)

  Component Input / Output
  3 x BNC Female connectors (Y, Pb, Pr Input)
  3 x BNC Female connectors (Y, Pb, Pr Output)

  Audio Output
  2 x RCA Female connector (L, R)

  SDI Input / Output
  1 x BNC Female connector (SDI Input)
  1 x BNC Female connector (SDI Output)

  Power Input
  > XLR 4-Pin
  > DC Connector (Power Supply side)
  > 5.5 x 2 mm (Outer Diameter x Inner Diameter)

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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.

Warranty

For Warranty information please refer to Marshall website page:
https://marshall-usa.com/company/warranty.php

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