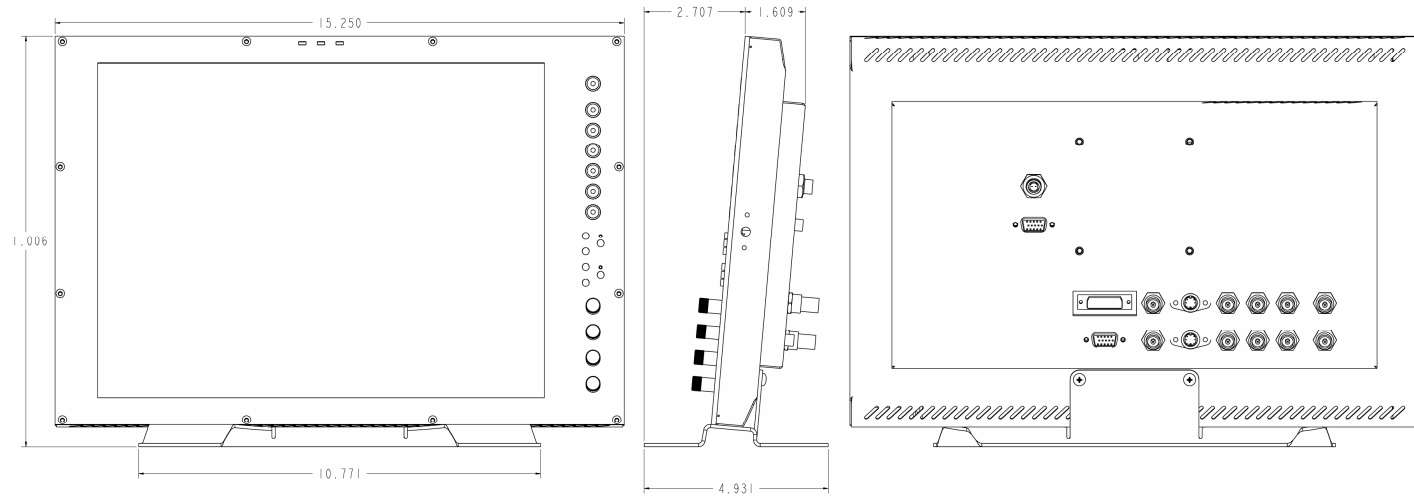


Specifications (continued)



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

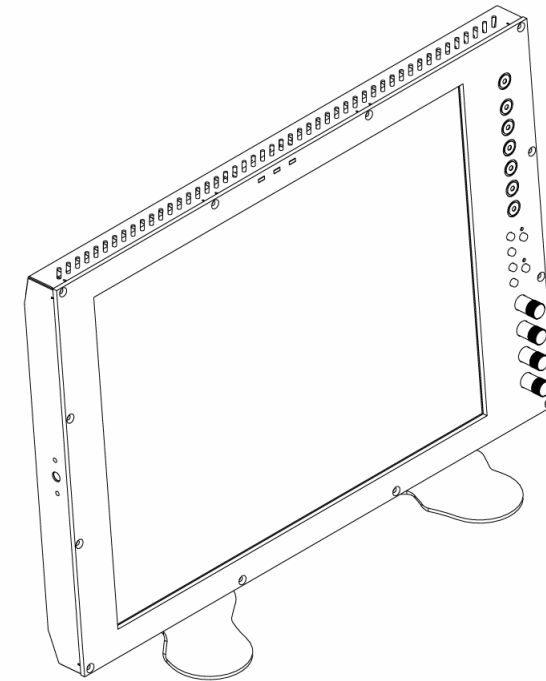
Marshall Electronics warranties to the first consumer that this **V-LCD15SB-AFHD-DT** LCD monitor will, under normal use, be free from defects in workmanship and materials, when received in its original container, for a period of one year from the purchase date. This warranty is extended to the first 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.

Updated: 05/18/07

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Marshall Electronics

V-LCD15SB-AFHD-DT SD/HD SunBrite LCD Monitor



Operating Instructions

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Specifications

■ PANEL

Screen Size	15.0" Diagonal
Display Area (h x v)	304.128 x 228.096 mm
Aspect Ratio	4:3 Native (4:3/16:9 Modes)
Pixels	1024 x RGB x 768
Color Depth	16,777,216 Colors
Viewing Angle (h x v)	160° x 140°
Brightness	600 cd/m ²
Contrast Ratio	600:1
Dot Pitch (h x v)	0.099 x 0.297 mm
Pixel Pitch (h x v)	0.297 x 0.297 mm
Pixel Response	18 ms (rise + fall)

■ VIDEO INPUT/OUTPUT

Video Input / Output

Supports SMPTE 170M, NTSC/PAL
Color burst/sub-carrier required

S-Video (Y/C) Input / Output

Supports SMPTE 170M, NTSC/PAL

YPbPr Input / Output

Supports SMPTE 260M, 274M, 296M

HD-SDI Input / Output

Supports ITU-R BT.656, SMPTE 259M. 292M

VGA Input

Supports RGBHV, RsGsBs, RGSB, RGB CS,

DVI Input

Supports Digital Signals Only (DVI-D)
HDCP Supported

■ CONNECTORS

Video Input

Video	1 x BNC Female (75 Ω)
S-Video (Y/C)	1 x 4-Pin Mini-DIN
YPbPr	3 x BNC Female (75 Ω)
HD-SDI	1 x BNC Female (75 Ω)
VGA	1 x HD-15 Female
DVI	1 x DVI-I 29-Pin Female

Video Output (Active Loop-Through)

Video	1 x BNC Female (75 Ω)
S-Video (Y/C)	1 x 4-Pin Mini-DIN
YPbPr	3 x BNC Female (75 Ω)
SDI	1 x BNC Female (75 Ω)

Power Input

2-Pin Conxall Twist-Lock Female

Tally Interface

HD-15 Female

■ TALLY

3 LEDs (Green, Red, Yellow). 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	Ground
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	Ground
15	Ground

■ ELECTRICAL

Power Consumption 3A @ 12VDC (36 W)
Voltage Requirement 12-14 VDC

V-PS12-5V-1 Power Supply:

Input	100V-240V, 50/60Hz
Output	12-14V, 5A

■ MECHANICAL

Dimensions (w x h x d): 15.25" x 10.45" x 1.77"
Height with Stand: 11.01"
Rack Height: 6 RU
Additional Mounting: VESA 75 mm

Weight (Monitor Only): 8.1 lbs
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 Do not dispose. Return to Manufacturer or Authorized Recycle Facility.

SYSTEM CONFIGURATION SUBMENU



Video Configuration Submenu

■ Internal SMPTE Color Bars

Use to display internally generated SMPTE split-field color bars.

■ User-Definable Function Buttons

Use the **FUNCTION 1** and **FUNCTION 2** menu items to define each function button on the front panel of the monitor. The following options are available for each button:

- DELAY Enable and rotate amongst delay modes.
- RATIO Toggle between 4:3 and 16:9 aspect ratios.
- BACK Rotate amongst marker backgrounds.
- CENTER Enable/disable center marker.
- MARKER Enable and rotate amongst marker settings (choices depend on aspect ratio setting).
- MONO Enable/disable monochrome mode.
- CTEMP Rotate amongst color temperature settings.
- PTP Enable/disable Pixel-to-Pixel™ mode.

FUNCTION 1 is set to **RATIO** by default.

FUNCTION 2 is set to **PTP** by default.

■ Status Display

Use to enable on-screen display of input/format status in the upper-left corner of the screen.

■ Saving and Loading User Configuration Presets

Use the SAVE CONFIG and LOAD CONFIG menus to save current settings to one of 6 presets, or load a preset. All monitor settings on the monitor are saved, including the image adjustment knob settings.

- Use the LOAD CONFIG menu to load one of presets USR1 – USR6. Factory default settings can also be loaded by selecting MFG. (Factory defaults cannot be overwritten.)
- Use the SAVE CONFIG menu to save the current settings to a preset from USR1- USR6.

Product Overview

The **V-LCD15SB-AFHD-DT** is a 15" SD/HD video LCD with Marshall Electronics' proprietary SunBrite LCD panel, designed specifically for outdoor applications or high levels of ambient light. The V-LCD15SB-AFHD-DT features our completely digital TFT-MegaPixel™ active matrix LCD system. Weighing only 8.1 lbs and only 1.77" deep, this monitor is an ideal lightweight replacement for CRTs used in all broadcast and professional video applications. Emulation of SMPTE-C/EBU color and adjustable color temperature enable the most precise color representation possible. Our proprietary digital signal processing features 10-bit A/D conversion of all analog signals, with 4X over-sampling and 5-line super-adaptive 2D comb filtering of composite signals. De-interlacing is performed using our HyperProcess™ algorithm with motion adaptive interpolation. The V-LCD15SB-AFHD-DT features multi-format compatibility, accommodating virtually all video formats including NTSC/PAL, 480i/p, 720p, and 1080i/p formats. VGA and DVI inputs accept VESA standards allowing the display to be used as a computer monitor. Advanced features include aspect ratio settings, a variety of screen markers, underscan mode, blue-only mode, monochrome mode, H/V delay, and Pixel-to-Pixel™ mode.

Features

■ High-Resolution 15" SunBrite Panel

The V-LCD15SB-AFHD-DT features Marshall Electronics' new SunBrite LCD panel, dramatically boosting the efficiency of the backlight's light utilization and minimizing the surface reflection of ambient light. The transmissive LCD produces high-contrast images, even in challenging outdoor lighting conditions. This technology features a much wider color reproduction range than typical transfective/reflective LCDs with increased backlight performance. The LCD panel features a brightness of 600 cd/m², 600:1 contrast ratio, and 160° horizontal and 140° vertical viewing angles.

■ Multi-Format Compatibility

With a variety of analog and digital inputs, the V-LCD15SB-AFHD-DT accommodates virtually all video formats. Input types include **Composite Video**, **S-Video**, **YPbPr**, **SDI**, **VGA**, and **DVI** with HDCP. Accepted formats include NTSC/PAL, 480i/p, 576i/p, 720p, 1035i, and 1080i/p standards, as well as VESA PC formats through SXGA (1280 x 1024).

■ End-to-End Digital Signal Processing

Analog signals are digitized using an advanced 10-bit process with 4x over-sampling, 5-line super-adaptive 2D comb filtering, and exacting color space conversion. Video is scaled to fit on the screen in the highest possible resolution using a state-of-the-art LSI that incorporates precision gamma correction and our HyperProcess™ motion adaptive interpolation for interlaced images.

■ ColorMatch™ Conversion with Color Temperature Adjustment

Emulation of SMPTE-C/EBU color space allows the V-LCD15SB-AFHD-DT to replace any broadcast CRT monitor. Settings include D55, D65 and D95. Bias and Gain adjustment for each color enables precise color matching and white balance.

■ Advanced Features

Aspect ratio settings, underscan mode, blue-only mode, monochrome mode, and H/V delay are a few of the advanced features making the V-LCD15SB-AFHD-DT at home in any broadcast environment. Pixel-to-Pixel™ mode also allows native display of any incoming image format.

■ Flexible Screen Markers

A variety of screen markers in both 4:3 and 16:9 modes allow accurate monitoring of the different aspect ratios used in broadcast environments.

■ User-Definable Function Buttons

Two user-definable function buttons on the front-panel allow quick access to numerous settings and features including aspect ratio, screen markers, monochrome mode, color temperature, delay mode, and more.

■ Unpacking

Carefully unpack the V-LCD15SB-AFHD-DT monitor and verify that the following items are included:

- V-LCD15SB-AFHD-DT Monitor with Attached Desktop Stand
- V-PS12-5V-1 Power Supply with Conxall 2-Pin Twist-Lock Connector
- Operating Instructions

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.

■ Installation

The V-LCD15SB-AFHD-DT monitor is shipped with pre-installed desktop stand, allowing the monitor to be flexibly used in the field. The monitor can also be installed in an EIA standard 19-inch rack, occupying 6RU (contact Marshall Electronics). When installed in a rack, the unit can be rotated 360° to achieve the desired viewing angle.

A VESA standard 75mm hole pattern also allows custom mounting installations on stands or articulating arms.

■ Connections and Power-On

Plug the V-PS12-5V-1 power supply into an AC power source (100-240 V @ 50/60 Hz). Attach the 2-pin twist-lock connector to the back of the monitor. Please note that 12-17VDC can be also supplied directly to the monitor from a variety of sources. The monitor will draw approximately 3 Amps at 12 Volts in operation.

Connect the required cables for video signal input and output. (Power must be applied to the V-LCD15SB-AFHD-DT for the active loop-through outputs to be activated.) All BNC connectors are rated at 75Ω.

Turn on the unit by pressing the power button located on the front panel. Select a video input by pressing the corresponding input select button.

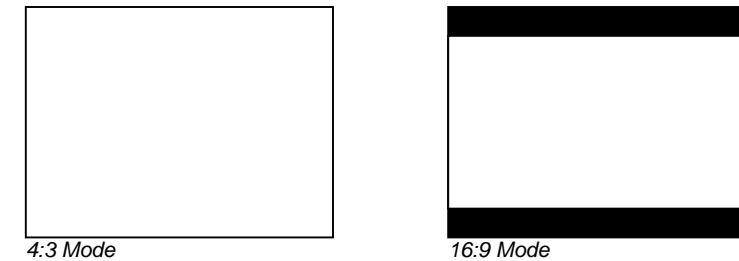
VIDEO CONFIGURATION SUBMENU (continued)

■ Aspect Ratio Settings

Use to switch between 4:3 and 16:9 aspect ratios.

As the V-LCD15SB-AFHD-DT monitor has a native resolution of 1024 x 768 RGB pixels, incoming images are automatically scaled to fit the screen:

- In 4:3 mode, images are scaled up or down to fill the entire 4:3 screen (1024 x 768).
- In 16:9 mode, images are scaled to fill the maximum 16:9 portion of the screen (1024 x 576), with black bars filling the remainder of the screen.



Note: The aspect ratio setting is ignored when Pixel-to-Pixel™ mode is enabled.

■ Scanning Modes

Use this setting to switch between normal and underscan modes:

- In normal scan mode, the active portion of the video signal is displayed on the screen, with 0% overscan.
- In underscan mode, area around the active video area is displayed on the screen, resulting in blanking intervals being shown around the perimeter of the active image. Use this mode to clearly view the edges of the active video area.

■ Delay Modes

Use this setting to enable one of three delay modes (H/V, H, V):

- In H/V delay mode, both horizontal sync and vertical sync are delayed, resulting in both horizontal and vertical blanking periods being shown on the screen.
- In V delay mode, vertical sync is delayed so that the vertical blanking period is displayed on screen.
- In H delay mode, horizontal sync is delayed so that the horizontal blanking period is displayed on the screen.

Note: Delay modes are only available in normal scan mode.

VIDEO CONFIGURATION SUBMENU (continued)

■ Monochrome Mode

Use this setting to enable monochrome mode. Only the luminance of the image will be displayed as a grayscale picture.

■ Blue-Only Mode

Use this setting to enable Blue-Only mode. This mode displays only the blue color component of the image, switching off the red and green components. Use this mode when calibrating the monitor to SMPTE color bars with the following procedure:

1. Allow the monitor to warm up for at least 5-10 minutes.
2. Display SMPTE split-field color bars on the monitor using the internal generator or an external source.
3. Enable **Monochrome mode**.
4. Locate the pluge pattern (super black, black, and gray bars) at the lower-right corner of the screen. Adjust the **Brightness** knob until there is no visible difference between the super black and black bars, but the gray bar is still visible.
5. Adjust the **Contrast** knob until an even grayscale appears along the top bars.
6. Disable **Monochrome mode**.
7. Enable **Blue-Only mode** and adjust the **Color** knob so that the outermost bars (white and blue) appear to match in brightness.
8. Composite/S-Video NTSC only: Adjust the **Tint** knob until the third bar from the left (cyan) and the third bar from the right (magenta) appear to match in brightness.
9. Disable **Blue-Only mode**.

■ Pixel-to-Pixel™ Mode

Use this setting to enable Pixel-to-Pixel™ mode.

This mode bypasses the monitor's internal scaling function and displays incoming images in their native resolution and aspect ratio, with a one-to-one mapping:

- For incoming formats smaller than the native resolution of the LCD panel (1024 x 768), the image will be displayed in the center of the screen using only the necessary LCD pixels. For example, NTSC or PAL images will occupy exactly 720 x 486 or 720 x 576 pixels respectively. The surrounding pixels will be black.
- For incoming formats exceeding 1024 x 768 pixels, only the center 1024 x 768 of the incoming image will be displayed occupying the whole screen, with the remainder of the picture cropped. For example, 1080 and 720 formats will both be cropped to 1024 x 768 and displayed full-screen.

Note: Pixel-to-Pixel™ mode will utilize the entire screen (1024 x 768) regardless of the aspect ratio setting. Pixel-to-Pixel™ mode is not available when using the VGA or DVI inputs.

Front Panel Features

1 Power Button

Turn the monitor on by pressing the power button. In the OFF state, the LED will shine brightly. The LED will dim when the monitor is turned on.

2 Input Select Buttons

Use the input select buttons to select the input to be displayed:

- Video
- S-Video
- YPbPr (SD/HD)
- VGA
- DVI
- SDI

Each input automatically detects the applicable formats (**See Compatible Input Formats – Page 7**).

3 On-Screen Menu Navigation Buttons

Use the **Menu**, **↑**, **↓**, and **Select** buttons to display and navigate the on-screen menu (**See Main Menu and Navigation – Page 8**).

4 User-Definable Function Buttons

Two user-definable function buttons can be used for direct access to various settings. Functions are assigned using the on-screen menu (**See User-Definable Function Buttons – Page 14**).

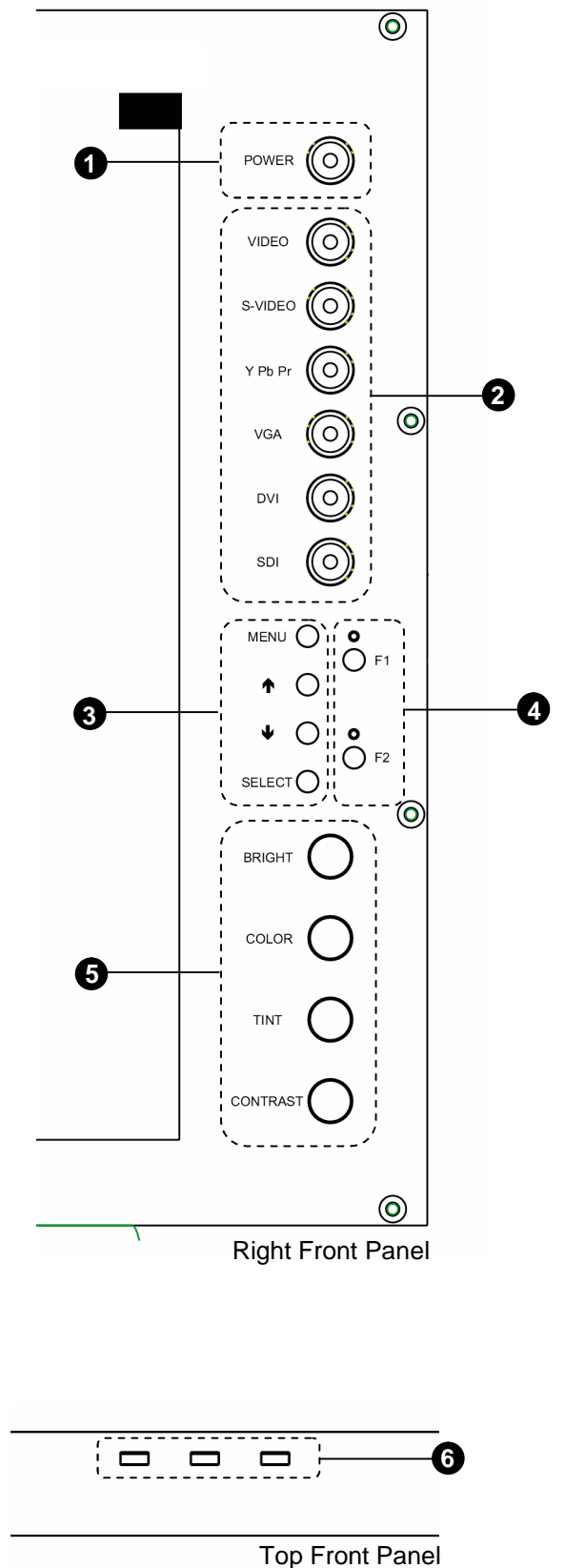
5 Image Adjustment Knobs

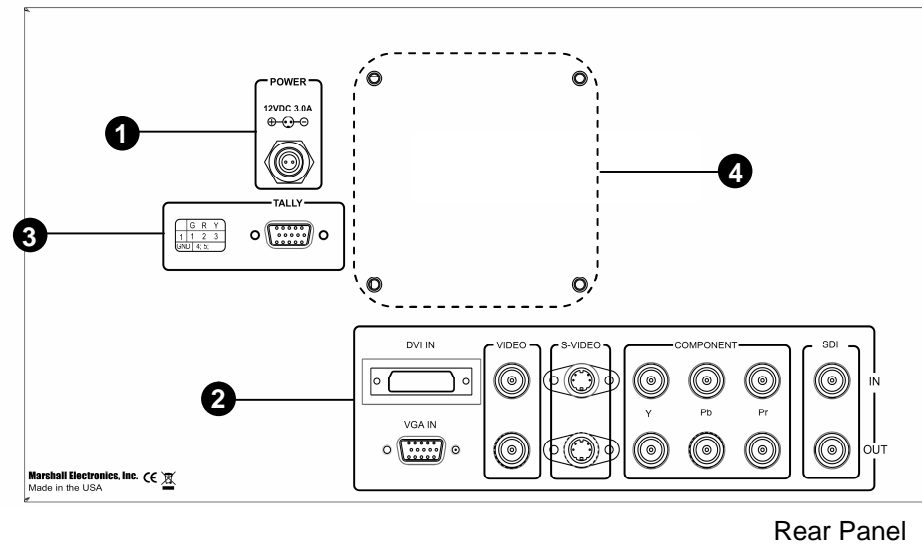
Use the image adjustment knobs to adjust the following settings. Pressing each knob will display the current status of the corresponding control:

- Brightness (0-64)
- Color (0-64)
- Tint (0-64) [NTSC Only]
- Contrast (0-64)

6 Tally Lights

Three tally LEDs (green, red, and yellow) are provided as general purpose indicators. Each LED can be individually controlled, providing multiple indications. Tally LEDs are controlled via the HD-15 connector on the rear panel (**See Tally Interface – Page 6**).





1 Power Input

Connect the 12VDC input to the Conxall 2-pin twist-lock power input connector. Power can be supplied from the included power supply, or from a variety of DC sources supplying at least 3 Amps at 12 Volts.

IMPORTANT: If using a power source other than the included power supply, be sure that the polarity of the DC input is correct:

- Pin 1: +12VDC
- Pin 2: GND

2 Signal Input/Output

Connections:

- Composite Video Input/Output (BNC)
- S-Video Input/Output (4-Pin Mini-DIN)
- YP_BP_R Input/Output (BNC x 3)
- SDI Input/Output (BNC)
- VGA (HD-15)
- DVI (29-Pin connector, DVI-D signals only)

All outputs are active and require the monitor to be powered.

3 Tally Interface

Each tally light is activated via the HD-15 connector by connecting the corresponding pin to ground. A variety of external devices can be used to perform the contact closure. No additional power should be supplied to the HD-15 port.

Tally Interface: HD-15 Pinout

Pin No.	Signal
1	Green
2	Red
3	Yellow
4	Ground
5	Ground
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	Ground
15	Ground

Example: To activate the red tally light, connect pin 2 to pin 4, 5, 14, or 15.

4 Mounting Holes

A VESA-standard 75 mm hole pattern is provided to accommodate a variety of custom mounting options.

VIDEO CONFIGURATION SUBMENU



Video Configuration Submenu

Color Temperature Presets

Use this setting to choose one of three color temperature presets:

- D55 (5500K)
- D65 (6500K)
- D93 (9300K)
- USER (Adjustable Color Bias and Gain)

Adjusting Color Bias



Color Bias Menu

Use this submenu to adjust bias of the color response. Adjust the bias for each color to alter the white balance of the image. The Color Temperature preset will automatically switch to USER when Color Bias settings are adjusted. It is normal for color bias adjustments to be very subtle.

Adjusting Color Gain



Color Gain Menu

Use this submenu to adjust gain of the color response. The Color Temperature preset will automatically switch to USER when Color Gain settings are adjusted.

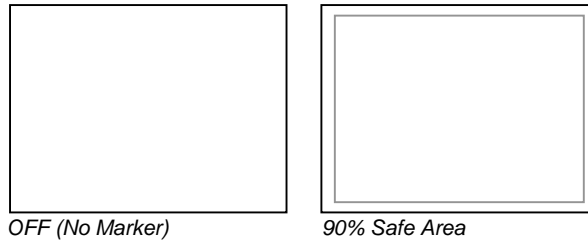
MARKER SETUP SUBMENU (continued)

■ 4:3 Markers

Use this setting to superimpose one of 5 markers on the screen when in 4:3 mode. This setting is disabled when the aspect ratio is set to 16:9, or when Pixel-to-Pixel™, Underscan, or H/V Delay is enabled.

- OFF (No Marker)
- 95% Safe Area
- 93% Safe Area
- 90% Safe Area
- 88% Safe Area
- 80% Safe Area

4:3 Marker Examples:

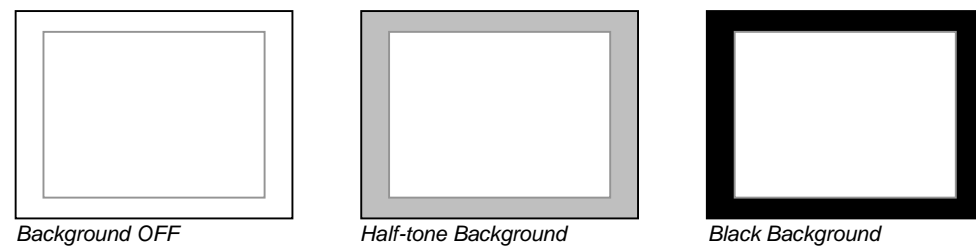


■ Marker Background

Use this setting to choose how selected markers are displayed on the screen:

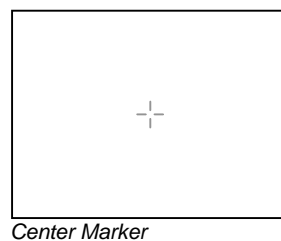
- OFF The marker is superimposed on the complete image.
- Half-tone Image area beyond the marker is shown at 50% intensity.
- Black Image area beyond the marker is shown at 0% intensity (black).

Example (80% Marker in 4:3 Mode):



■ Center Marker

Use this setting to display a center marker on the screen. This feature is not available when H/V delay is on.



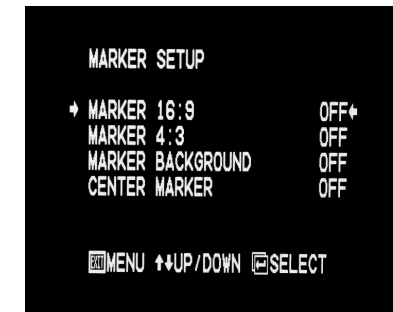
Compatible Input Formats

Format	Composite	S-Video	YPbPr	SDI	VGA	DVI-D
NTSC	•	•				
PAL	•	•				
480i / 59.94			•	•		
576i / 50			•	•		
485p / 59.94			•	•	•	
576p / 50			•	•	•	•
1035i / 60			•	•		
1035i / 59.94			•	•		
1080i / 60			•	•	•	•
1080i / 59.95			•	•	•	•
1080i / 50			•	•	•	•
1080psF / 24			•	•	•	•
1080psF / 23.98			•	•	•	•
1080p / 30			•	•		
1080p / 29.97			•	•		
1080p / 25			•	•		
720p / 60			•	•	•	•
720p / 59.94			•	•	•	•
720p / 50			•	•	•	•
720p / 30			•	•		
720p / 29.97			•	•		
720p / 25			•	•		
640 x 480 @ 60Hz					•	•
640 x 480 @ 75Hz					•	•
640 x 480 @ 85Hz					•	•
800 x 600 @ 60Hz					•	•
800 x 600 @ 75Hz					•	•
800 x 600 @ 85Hz					•	•
1024 x 768 @ 60Hz					•	•
1024 x 768 @ 75Hz					•	•
1024 x 768 @ 85Hz					•	•
1280 x 1024 @ 60Hz					•	•

STRUCTURE OVERVIEW

MAIN	MARKER SETUP	MARKER 16:9	OFF, 13:9, 14:9, 4:3, 2.35:1, 1.85:1, 95%, 93%, 90%, 88%, 80%
		MARKER 4:3	OFF, 95%, 93%, 90%, 88%, 80%
		MARKER BACKGROUND	OFF, HALF, BLACK
		CENTER MARKER	OFF, ON
	VIDEO CONFIG	COLOR TEMP	D55, D65, D93, USER
		ADJ COLOR BIAS	RED (0-100)
			GREEN (0-100)
			BLUE (0-100)
		ADJ COLOR GAIN	RED (0-100)
			GREEN (0-100)
			BLUE (0-100)
		MONO	OFF, ON
		BLUE ONLY	OFF, ON
	PIXEL TO PIXEL	OFF, ON	
	ASPECT RATIO	4:3, 16:9	
	SCAN	NORMAL, UNDER	
	DELAY	OFF, H/V, V, H	
	SYSTEM CONFIG	SMPTE BAR	OFF, ON
		FUNCTION 1	DELAY, RATIO, BACK, CENTER, MARKER, MONO, CTEMP, PTP
		FUNCTION 2	DELAY, RATIO, BACK, CENTER, MARKER, MONO, CTEMP, PTP
STATUS DISPLAY		OFF, ON	
LOAD CONFIG		USR1, USR2, USR3, USR4, USR5, USR6, MFG	
SAVE CONFIG	USR1, USR2, USR3, USR4, USR5, USR6		

MARKER SETUP SUBMENU



Marker Setup Submenu

16:9 Markers

Use this setting to superimpose one of 10 markers on the screen when in 16:9 mode. This setting is disabled when the aspect ratio is set to 4:3, or when Pixel-to-Pixel™, Underscan, or H/V Delay is enabled.

- OFF (No Marker)
- 13:9 Aspect Ratio
- 14:9 Aspect Ratio
- 4:3 Aspect Ratio
- 2.35:1 Aspect Ratio
- 1.85:1 Aspect Ratio
- 95% Safe Area
- 93% Safe Area
- 90% Safe Area
- 88% Safe Area
- 80% Safe Area

16:9 Marker Examples:



OFF (No Marker)



90% Safe Area



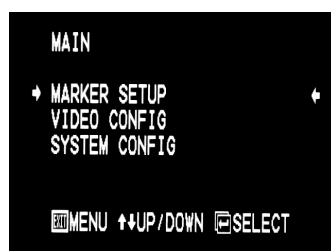
2.35:1 Aspect Ratio



4:3 Aspect Ratio Marker

MAIN MENU AND NAVIGATION

Access the main menu by pushing and holding the **MENU** button on the front panel of the monitor until the main menu appears (approximately 1-2 seconds).



Main Menu

- Step through menu items using the ↑ and ↓ buttons.
- Choose a menu item by pressing **SELECT**.
- Rotate through options using the ↑ and ↓ buttons.
- Choose a setting by pressing **SELECT**.
- Return to the previous menu by pressing **MENU**.
- Exit the main menu by pressing **MENU**. The menu will automatically time out after 5 seconds. After exiting the menu, wait 1-2 seconds before displaying the menu again.

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