Operating Instructions
1. OVERVIEW

The M-LYNX-503 provides three independent wide-screen displays in only 2RU rack height and very slim 1.75” (44.5mm) depth. Each display has inputs for 3GSDI, HDMI and standard composite analog video sources. The SDI and HDMI digital inputs provide active loop-through connections while the composite input is self-terminating with passive loop-through. Controls are conveniently placed on the front panel (computer not required). Menus are straightforward and intuitive. Front panel headphone jacks allow monitoring of embedded digital audio (SDI and HDMI) as well as analog audio (for composite video AV input). Large, three color tally lights above each screen operate from standard GPI connections (contact closure or open-collector pull-down) for maximum compatibility with existing systems.

2. UNPACKING

Carefully unpack the M-LYNX-503 monitor and verify the following items are included:

1. M-LYNX-503 Monitor
2. Power supply with AC cord
3. 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.

3. INSTALLATION

The M-LYNX-503 is designed to mount in a standard 19” equipment rack using the pre-installed mounting ears. Once mounted, the monitor may be tilted to the ideal viewing position. Care should be taken to allow sufficient slack in cables attached to the monitor so as not to bind when the monitor is tilted. Also, check that the ventilation holes are not obstructed by other equipment in the rack.

Connections, Power On and Initial Setup

1. 4-pin Power Connector

4-pin XLR DC power input compatible with typical broadcast television camera 12-volt power supplies. Caution: Some 4-pin power supplies provide 24 volts. These are NOT compatible with this monitor. Please check the label on the power supply before connecting.

<table>
<thead>
<tr>
<th>Pin number</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GND</td>
</tr>
<tr>
<td>2</td>
<td>No connection</td>
</tr>
<tr>
<td>3</td>
<td>No connection</td>
</tr>
<tr>
<td>4</td>
<td>+12V</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Screen #1</th>
<th>Screen #2</th>
<th>Screen #3</th>
<th>Tally</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6</td>
<td>11</td>
<td>Green Light</td>
</tr>
<tr>
<td>2</td>
<td>7</td>
<td>12</td>
<td>Red Light</td>
</tr>
<tr>
<td>3</td>
<td>8</td>
<td>13</td>
<td>Yellow Light</td>
</tr>
<tr>
<td>4</td>
<td>9</td>
<td>14</td>
<td>Ground</td>
</tr>
</tbody>
</table>
Plug the included power supply into an AC power source (100 – 240 Volts @ 50/60 Hz). Attach the power connector to the back of the monitor. (Alternatively, a standard camera-type 12-volt power supply with an XLR-4 connector may be used).

Connect the required cables for video signal input and output. The monitor defaults to “ON” when power is connected. The Marshall name will first appear then video will be automatically detected and displayed on the screen. If video does not appear, press the INPUT button on the front panel to select an active source. HDMI and SDI inputs have active loop through connections. Active loop-through does not work if main power is removed from the monitor. Front power buttons have no effect on loop-through operation.

When main power is first applied to the M-LYNX-503, the input selection defaults to the last used source. To see other sources, press the Input button to cycle through three choices: HDMI, SDI and AV (composite analog).

Headphone audio level may be quickly adjusted any time by pressing the ► and ◄ buttons. The power button for each screen is located just above the headphone jack. The button lights up green when the screen is ON.

To confirm that main power is being supplied to the internal components, a red LED light for each screen is visible through the ventilation holes on top.

4. BASIC OPERATION

When main power is first applied to the M-LYNX-503, the input selection defaults to the last used source. To see other sources, press the Input button to cycle through three choices: HDMI, SDI and AV (composite analog).

Headphone audio level may be quickly adjusted any time by pressing the ► and ◄ buttons. The power button for each screen is located just above the headphone jack. The button lights up green when the screen is ON.

To confirm that main power is being supplied to the internal components, a red LED light for each screen is visible through the ventilation holes on top.
3. MARKERS

Select On-screen markers, image flip, focus assist and other assistance tools.

**Center Marker:** Places a "cross hairs' marker in the exact center of the image.

**Safe Frame:** Creates a border to indicate a safe area for camera framing. Adjustable from 80% to 96% and 2.35 wide aspect.

**Image Freeze:** Holds the current image on screen until Freeze is turned off.

**Image Flip:** Flip the displayed image to compensate for special lenses or mirrors. Use the ▶ ◀ buttons to choose:
- H_V Flip: Image is flipped top to bottom and left to right.
- H Flip: Image is flipped left to right (mirror).
- V Flip: Image is flipped top to bottom.

**Check Field:** Use the ▶ ◀ to display a single primary color or no color (monochrome).

**P2P:** Pixel-to-Pixel mode. Image pixels are mapped 1:1 to display pixels. (Scaling off). In most cases, this will have the appearance of expanding the image.

**Focus Assist:** This is a tool to assist setting sharp focus on a video camera. When this mode is ON, the picture will be monochrome with a red border around objects in the image. As the camera lens is adjusted, the red border will be brighter or dimmer. Brighter = sharper focus.

4. FUNCTIONS

Program the user Function buttons.

**F1:** & **F2:** Use the ▶ ◀ and ▲▼ buttons to chose a function from this list:
- Center marker
- Safe Frame
- Check Field
- Focus Assist z
- Aspect Ratio
- Image Flip
- P2P
- Image Freeze

5. SPECIFICATIONS

<table>
<thead>
<tr>
<th>Panel size</th>
<th>5.0-inch TFT LCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>800 x RGB x 480</td>
</tr>
<tr>
<td>Backlight type</td>
<td>LED</td>
</tr>
<tr>
<td>Dot pitch</td>
<td>0.045(W) x 0.135(H)</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:10</td>
</tr>
<tr>
<td>Brightness (in cd/m²)</td>
<td>400</td>
</tr>
<tr>
<td>Contrast</td>
<td>500:1</td>
</tr>
<tr>
<td>Finish</td>
<td>Anti-glare</td>
</tr>
<tr>
<td>Viewing Angles (CR&gt;=10)</td>
<td>70°/70°(L/R) 50°/70°(U/D)</td>
</tr>
<tr>
<td>Input</td>
<td>HDMI / 3GSDI / AV (composite)</td>
</tr>
<tr>
<td>AV</td>
<td>PAL - 4.43 / NTSC - 3.58</td>
</tr>
<tr>
<td>HDMI with loop-through</td>
<td>480i /480p /576i /576p (59.94/50)</td>
</tr>
<tr>
<td></td>
<td>720p (60/59.94/50/30/29/25/24/23.98)</td>
</tr>
<tr>
<td></td>
<td>1080i (60/59.94/50)</td>
</tr>
<tr>
<td></td>
<td>1080p (60/59.94/50/30/29/25/24/23.98/23.98)</td>
</tr>
<tr>
<td>3G-SDI with loop-through</td>
<td>ITU-R BT.656 576i</td>
</tr>
<tr>
<td></td>
<td>SMPTE-125M 480i</td>
</tr>
<tr>
<td></td>
<td>SMPTE-274M 1080i (60/59.94/50)</td>
</tr>
<tr>
<td></td>
<td>1080p (30/29.97/25/24/23.98/23.98)</td>
</tr>
<tr>
<td></td>
<td>SMPTE-296M 720p (60/59.94/50/30/29/25/24/23.98)</td>
</tr>
<tr>
<td></td>
<td>SMPTE-424M 1080i (60/59.94/50)</td>
</tr>
<tr>
<td></td>
<td>1080p (60/59.94/50)</td>
</tr>
<tr>
<td>Earphone jack</td>
<td>Stereo 3.5mm</td>
</tr>
<tr>
<td>Input voltage</td>
<td>DC: 7.0~18.0V</td>
</tr>
<tr>
<td>Power consumption</td>
<td>24W</td>
</tr>
<tr>
<td>Dimensions (including connectors)</td>
<td>19.2&quot;W x 5.14&quot;H x 1.75&quot;D</td>
</tr>
<tr>
<td></td>
<td>485.6mm W x 88mm H x 44.5mm D</td>
</tr>
<tr>
<td>Weight (main body)</td>
<td>3.25lbs, 1.48 Kg</td>
</tr>
</tbody>
</table>
Marshall Electronics warranties to the first consumer that this M-LYNX-503 triple 5” rackmountable 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. 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.

Note: Due to constant effort to improve products and product features, specifications may change without prior notice.