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## RMT-150 Series

- RMT-150-A
- RMT-150-SD

15" Audio/Video LCD Monitor

User Guide

Part Number 821701, Revision C

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VIDEO

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LOUDNESS

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This document is intended to be printed on a duplex printer, such that the copy appears on both sides of each page. This ensures that all new chapters start on a right-facing page.

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## Last Update

June 16, 2011

# RMT-150 Series User Guide

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## Introduction

### Overview

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By employing a 1024 x 768 TFT/LCD screen, a perfect medium is reached in the scaling and interpolation process, providing superb imaging regardless of video format. This monitor comes with a plethora of in-monitor display features including level metering and built-in speaker monitoring of its dual stereo analog inputs.

### Topics

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# Safety Instructions

1. Read, keep, and follow all of these instructions; heed all warnings.
2. Do not use this equipment near water.
3. Use only a dry cloth to clean the equipment.
4. Do not block any ventilation openings. Install only in accordance with the instructions in the section entitled, “[Unpacking and Installation](#)” on [page 3](#).
5. Do not install near any heat source such as a radiator, heat register, amplifier, or stove.
6. Do not expose the equipment to rain or moisture.
7. Do not attempt to plug the unit into a two-blade outlet (with only two prongs of equal width).

**IMPORTANT:** By design, these monitors will only plug into a three-prong outlet for your safety. If the plug does not fit into your outlet, contact an electrician to replace the obsolete outlet.

8. Protect the power cord from being walked on or pinched, particularly at plug's source on the equipment and at the socket.
9. Use only the attachments/accessories specified by the manufacturer.
10. Unplug the equipment during lightning storms or when unused for long periods of time.
11. Refer all servicing to qualified service personnel. Servicing will be required under all of the following conditions:
  - The equipment has been damaged in any way, such as when the power-supply cord or plug is damaged.
  - Liquid had been spilled or objects have fallen onto the equipment.
  - The equipment has been exposed to rain or moisture.
  - The equipment does not operate normally.
  - The equipment has been dropped.

# Unpacking and Installation

## Carton Contents

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Unpack the RMT-150 Series monitor and inspect for any apparent physical damage that may have occurred in transit. In addition to the monitor, the package should contain:

- The monitor
- A power cord, and
- A warranty card
- Optional: A rack-mount frame and VESA-100 mount.

**Note:** We recommend you retain the shipping carton for future use.

## Installing the RMT-150 Series Monitor into a Rack

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To assemble for rack mounting, follow the instructions below.

1. Place the monitor screen down on a soft surface, to install the rack ears and VESA-100 mount.
2. Since the monitor comes already assembled for the table top option, remove the screws to remove the table stand.
3. Attach the external component of the VESA-100 mount to the rack ears.
4. Attach the internal component of the VESA-100 mount to the monitor.
5. Install the monitor into a 19" rack.
6. Connect the required signals. For BNC connections use 75 ohm-rated connectors.
7. Connect AC mains power using the included EIC power cord. Please ground the unit to ensure proper operation.

## FCC Compliance

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## Product Distinctions

The RMT-150-SD has all of the inputs the RMT-150-A has plus two SD-SDI inputs. See the [Specifications](#) below for details.

## Features

- 1024 x 768 screen resolution (4:3 native aspect)
- Four bar-graph audio meters in display
- Audio may be monitored from internal speakers or headphones
- Rack or table-top mounting
- Tri-color tally light
- Two CVBS inputs and four audio inputs.

# Specifications

**Table 1–1 Specifications for the RMT-150 Series**

| Specification         | RMT-150-A  | RMT-150-SD   |
|-----------------------|--|--|
| Display Area          | 15" diagonal; 11.97" x 8.98" (304.13 mm x 228.10 mm)   |  |
| Viewing Angles        | Desktop: 70° Up, 20°Down; Rack Mount: 20° Up, 70° Down   |  |
| Color Depth           | 16.7 M   |  |
| Resolution            | 1024 H x 768 V   |  |
| Dot Pitch             | 0.297 m x 0.297 mm   |  |
| Brightness            | 250 cd/m <sup>2</sup>  |  |
| Contrast Ratio        | 600:1  |  |
| Power                 | 100-240V AC50-60Hz, 30W  |  |
| Operating Temperature | 32° to 140° F (0° to 60° C)  |  |
| Rack Height           | 7 RU (12.37" or 314.2 mm)  |  |
| Inputs                | <ul style="list-style-type: none"> <li>• 1 CVBS</li> <li>• 1 CVBS Y/C-YpbPr</li> <li>• 1 VGA-DVI</li> <li>• 4 Audio</li> </ul> | <ul style="list-style-type: none"> <li>• 2 SD-SDI</li> <li>• 1 CVBS</li> <li>• 1 CVBS Y/C-YpbPr</li> <li>• 1 VGA-DVI</li> <li>• 4 Audio</li> </ul> |
| Outputs               | <ul style="list-style-type: none"> <li>• 2 Audio</li> </ul>  | <ul style="list-style-type: none"> <li>• 1 SD-SDI</li> <li>• 2 Audio</li> </ul>  |

**Note:** All specifications are subject to change without notice.

Overscan and normal outputs are 1024 x 768, and the color is 601.

**Table 1–2 Standard Definition Video, Frame Refresh Rate, and Color Matrix (1024X 768)**

| Signal    | Overscan  | Normal   | Frame |
|-----------|-----------|----------|-------|
| NTSC      | 684 x 463 | 720x 480 | 30    |
| PAL       | 684 x 548 | 720x 576 | 25    |
| SECAM     | 684 x 548 | 720x 576 | 25    |
| NTSC-4.43 | 684 x 463 | 720x 480 | 30    |
| PAL-M     | 684 x 463 | 720x 480 | 30    |
| 480I60,   | 684 x 463 | 720x 480 | 30    |
| 576I50    | 684 x 548 | 720x 576 | 25    |

**Note:** The RMT-150 Series monitors do not accept progressive video formats.

**Table 1–3 Signal Formats for the RMT-150-A and RMT-150-SD**

| Input Terminal SelectArea | Signal Type of Input Terminal | Signal Format  |
|---------------------------|-------------------------------|--|
| SDI-1                     | SDI                           | 480I60, 576I50                                       |
| SDI-2                     | SDI                           | 480I60, 576I50                                       |
| Line-1                    | Video                         | NTSC, PAL, SECAM, NTSC-4.43,                         |
| Line-2                    | Video                         | NTSC, PAL, SECAM, NTSC-4.43,                         |
|                           | Y/C                           | NTSC, PAL, SECAM, NTSC-4.43,                         |
|                           | Ypbpr                         | 480I60, 576I50                                       |
| DVI-I                     | VGA                           | VGA@(60-75), SVGA@(60-75), XGA@(60-75), SXGA@(60-75) |
|                           | DVI-D                         | VGA@(60-75), SVGA@(60-75), XGA@(60-75), SXGA@(60-75) |

**Table 1–4 Additional Signal Formats for the RMT-150-SD**

| Input Terminal SelectArea | Signal Type of Input Terminal | Signal Format  |
|---------------------------|-------------------------------|----------------|
| SDI-1                     | SDI                           | 480I60, 576I50 |
| SDI-2                     | SDI                           | 480I60, 576I50 |

When the signal successfully displays on the screen, the function option buttons on the front panel may behave differently or have no effect, depending on the input terminal or the input signal type. The detailed corresponding relationships are listed in [Table 1–5](#) below.

**Table 1–5 Controls to Signal Relationships**

| Input Terminal Select Area ---Button Items         |                       | Line-1 | Line-2 |      |          | SDI-1 or SDI-2 <sup>a</sup> | DVI-I |       |
|--|-----------------------|--------|--------|------|----------|-----------------------------|-------|-------|
| Control  |                       | Video  | Video  | Y/C  | Ypbpr SD | SDI SD                      | VGA   | DVI-D |
| Function Button / Menu                             | Scan                  | ✓      | ✓      | ✓    | ✓        | ✓                           | —     | —     |
|  | H/V                   | —      | —      | —    | —        | ✓                           | —     | —     |
|  | Blue/Mono             | ✓      | ✓      | ✓    | ✓        | ✓                           | —     | —     |
|  | Marker                | ✓      | ✓      | ✓    | ✓        | ✓                           | —     | —     |
|  | Auto Adjust           | —      | —      | —    | —        | —                           | ✓     | —     |
|  | Status                | ✓      | ✓      | ✓    | ✓        | ✓                           | ✓     | ✓     |
|  | UMD - Color           | ✓      | ✓      | ✓    | ✓        | ✓                           | —     | —     |
|  | Meter - Display       | ✓      | ✓      | ✓    | ✓        | ✓                           | —     | —     |
|  | Meter Size            | ✓      | ✓      | ✓    | ✓        | ✓                           | —     | —     |
|  | Speaker Out           | ✓      | ✓      | ✓    | ✓        | ✓                           | —     | —     |
| Other Menu   | Color Temp.           | ✓      | ✓      | ✓    | ✓        | ✓                           | ✓     | ✓     |
|  | Meter - Source        | ✓      | ✓      | ✓    | ✓        | ✓                           | ✓     | ✓     |
|  | Aspect - Ratio        | ✓      | ✓      | ✓    | ✓        | ✓                           | ✓     | ✓     |
|  | UMD Char - Text Entry | ✓      | ✓      | ✓    | ✓        | ✓                           | ✓     | ✓     |
| Adjustment Knob Operation Area — Available Buttons | Bright                | ✓      | ✓      | ✓    | ✓        | ✓                           | ✓     | ✓     |
|  | Contrast              | ✓      | ✓      | ✓    | ✓        | ✓                           | ✓     | ✓     |
|  | Chroma                | ✓      | ✓      | ✓    | ✓        | ✓                           | —     | —     |
|  | Phase                 | NTSC   | NTSC   | NTSC | —        | ✓                           | —     | —     |
|  | Aperture              | ✓      | ✓      | ✓    | ✓        | ✓                           | —     | —     |
|  | Volume                | ✓      | ✓      | ✓    | ✓        | ✓                           | —     | —     |

<sup>a</sup> The SDI-1 or SDI-2 column only applies to the RMT-150-SD monitor.

# Dimensions

Figure 1–1 Front View

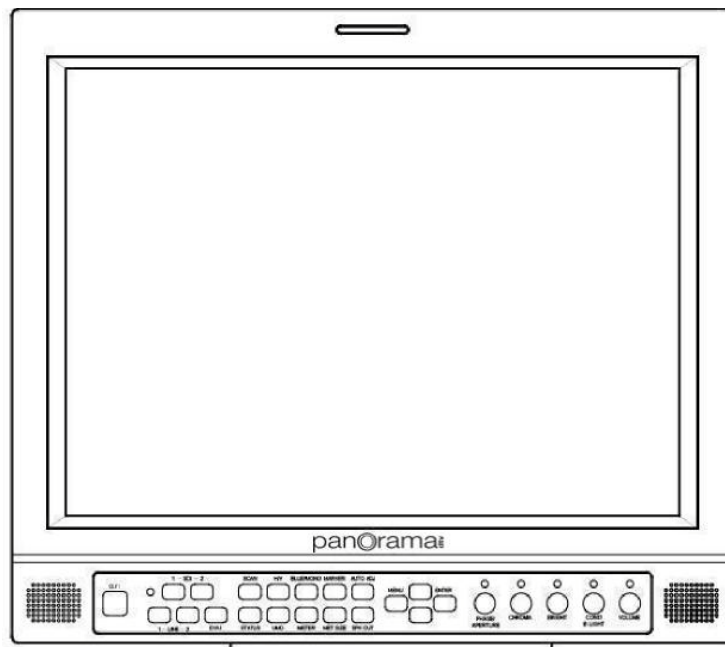


Figure 1–2 Rear View

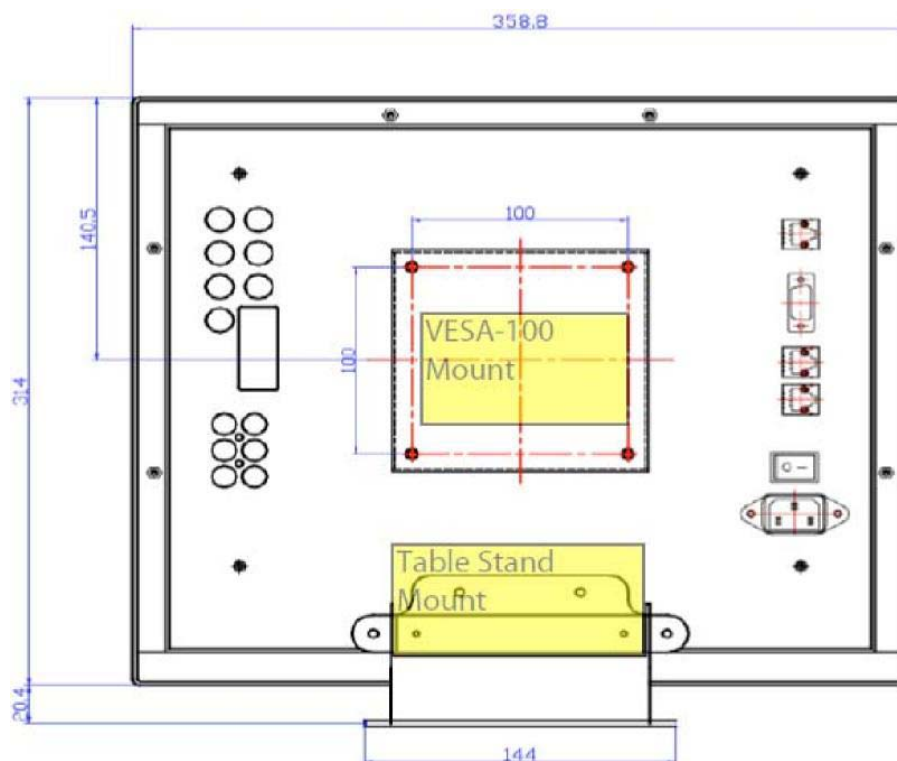


Figure 1–3 Side View (with Table Top Stand)

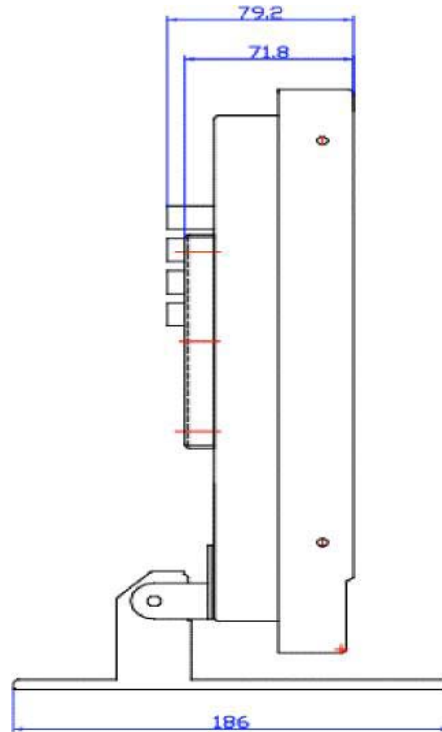
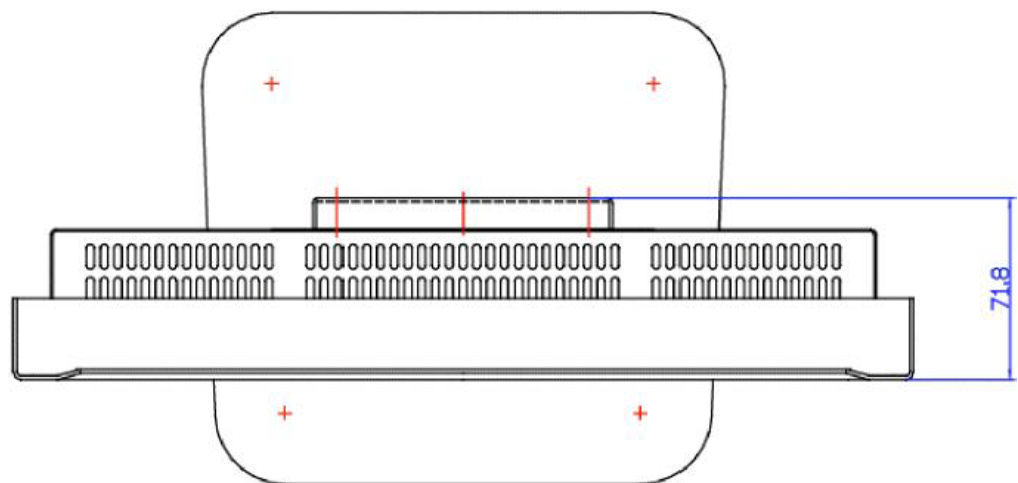
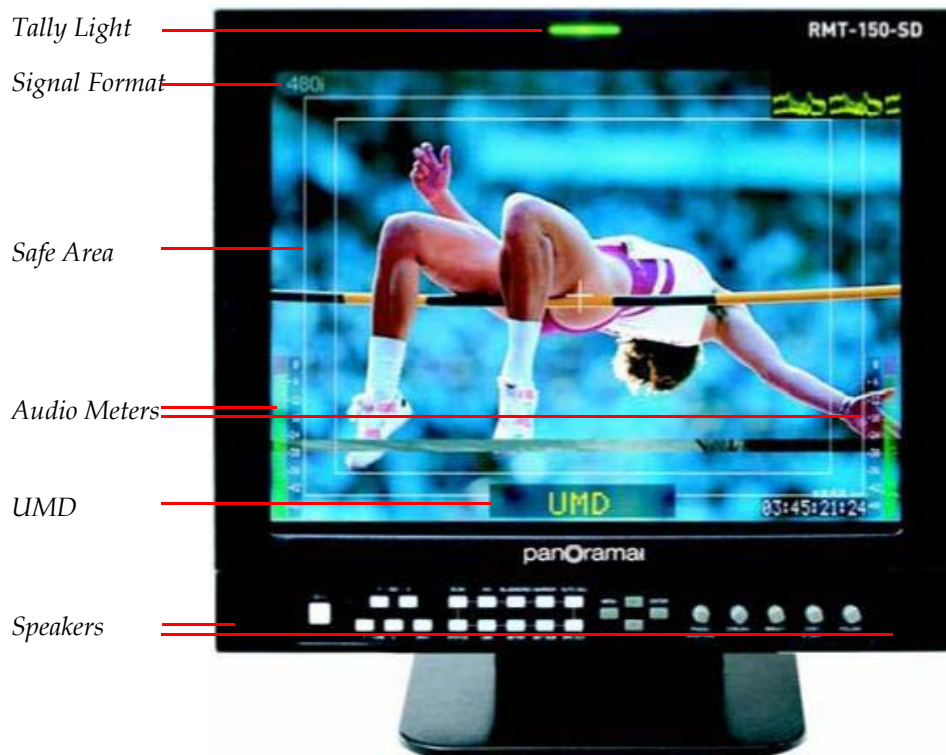


Figure 1–4 Top View



# In Monitor Features

**Figure 1–5**      **Monitor Display and Audio Features**



**Note:** While the image in [Figure 1–5](#) shows a waveform, this monitor does not currently come with this feature.

**Tally Light:** The tally can display three colors: green, red, and amber and you can control it by the GPI RJ45 connector on the right rear panel.

**Signal Format:** The monitor automatically detects the input signal format and displays it in the top left corner of the display. By pressing the **Status** button on the front control panel, you can set it to **On**, **Off**, and **Auto**.

**Safe Area:** Using the **Marker** button on the front control panel, you can turn the safe marker to **Off**, **Safe**, and **Safe+Center**.

**Audio Meters:** Using the **Meter** button on the front control panel, you can turn the audio meters to **Meter 1**, **Meter 2**, **Meter 1+Meter 2**, or **Off**.

**UMD (User-Modifiable Data):** Using the **UMD** button on the front control panel, you can turn the **UMD** on or off and change the color. Available settings for this button include: **Red**, **Green**, **Yellow**, or **White**. You can edit the **UMD** text in the OSD MENU.

**Speakers:** Using the **SPK OUT** button on the front control panel, you can select from two inputs to meter.

## Front Control Panel

The following descriptions refer to the front panel buttons starting from left to right except for the model-specific controls.

### Input Selection Buttons

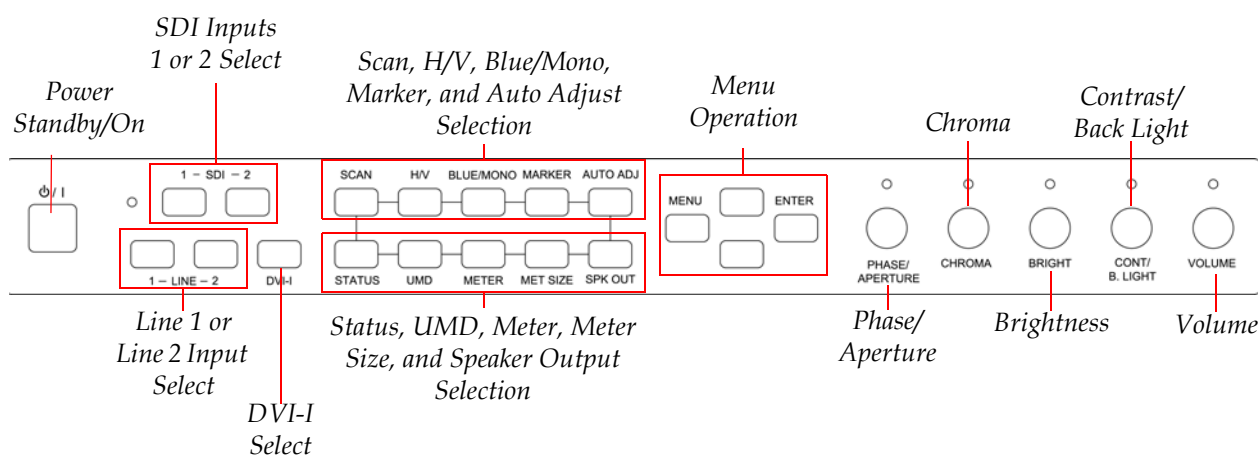
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Pressing any of the buttons in this section lights the button.

- **Power Standby/On Switch:** To turn the A/C mains power on, refer to the Power Switch on page 21. Press this button to turn on the power of this unit or to set this unit in the standby mode. Last settings recall with power.
  - **Unlit:** The monitor is completely off (mains switch is off).
  - **Green:** The monitor is on.
  - **Red:** The monitor is idle (standby).
- **LINE 1 – VIDEO Input Select Button/Lamp:** The signal of the LINE 1 input displays on the screen.
- **LINE 2 – LINE 2 Input Select Button/Lamp:** Pressing this button repeatedly allows you to select from the following three input types:
  - VIDEO
  - Y/C
  - YPbPr

- **SDI 1 – SDI1 Input Select Button/Lamp:** The signal of the SDI 1 input displays on the screen.  
**Note:** This button is disabled on the RMT-150-A.
- **SDI 2 – SDI2 Input Select Button/Lamp:** The signal of the SDI 2 input displays on the screen.  
**Note:** This button is disabled on the RMT-150-A.
- **DVI-I – DVI-I Input Select Button/Lamp:** Pressing this button repeatedly allows you to select from the following two input types:
  - Analog VGA (with adaptors)
  - Digital DVI-D

**Figure 1–6 Front Control Panel - SD-SDI Models**



## Option Buttons

Pressing any of the buttons in this section and selecting a non-default value lights the button.

- **SCAN – Scan Button/Lamp:** Press this button to switch the display between **NORMAL** and **OVER** (overscan). It can save the state, when the monitor is powered off.  
**Note:** For VGA or DVI-D input signal types, the default is **NORMAL** and this button has no effect.

- **H/V – H/V Delay Switch Button/Lamp:** For SDI input signals only, use this button to select **H**, **V**, **H/V**, and **OFF**. However, it does not save state, when power-off.

**Note:** The **H/V** button only works for SDI inputs and has no effect for any other input signal types.

- **BLUE/MONO – Blue/Mono Switch Button/Lamp:** Press this button to switch modes of **BLUE**, **MONO** and **OFF**. This button lamp lights only when you press **BLUE** or **MONO** menu. It does not save the state, when the power is off.

**Note:** For VGA or DVI-D input signal, its default mode always is **OFF** and pressing this button has no effect.

- **MARKER – Marker Button/Lamp:** Press this button to switch between **SAFE**, **SAFE+CENTER** and **OFF**. This button lamp lights only when you press **SAFE** or **SAFE+CENTER** on the menu. It can save the state, when the monitor is powered off.

**Note:** For VGA or DVI-D input signal, its default mode is **OFF** and this button does not work.

- **AUTO ADJ – Auto-Adjust Button/Lamp:** Pressing this button starts the auto-adjust sequence and turns on the light. When the auto adjustment is finished, its lamp will turn off.

**Note:** This button is only works for VGA input signals.

- **STATUS – Status Indication Button:** Press this button to switch the status: **AUTO**, **ON** and **OFF**. The status bar is displayed on the up left corner of the screen.
  - When set to **AUTO**, the status bar will display, while the signal state or input information changes. The status bar automatically disappears in about 15 seconds after the last status operation.
  - When set to **ON**, the state bar displays all the time.
  - When set to **OFF**, the state does not display.

- **UMD – UMD Character Color Set-up And On/Off Status Button:** Select the character color: **RED**, **GREEN**, **YELLOW**, **WHITE** or **OFF**.

**Note:** For VGA or DVI-D input signal, its default mode is **OFF** and this button has not effect.

- **METER – Meter Button:** Press this button to switch the display modes of audio meter, which are **METER1**, **METER2**, **METER1+METER2** and **OFF**. Repeatedly pressing the button allows you to cycle the display modes listed above.  
**Note:** This button has no effect for VGA or DVI-D input signals.
- **METER SIZE – Meter Size Button:** Press this button to switch the **METER SIZE** between **SMALL** and **LARGE**.  
**Note:** The **Meter Size** button only works when the meters are displayed.
- **SPK OUT – Speaker Output Button:** Press this button to select speaker output from **METER1** and **METER2**. The speaker output will mute for VGA and DVI-D input.

## Menu Buttons

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For a description of how to use the menu and the options available for selection, refer to [Using the Menu on page 15](#).

### Buttons

- **MENU – Menu Button:** Repeatedly pressing the **Menu** button displays a selection menu with the following configurable options:
  - METER1L
  - METER1R
  - METER2L
  - METER2R
  - COLOR TEMP
  - ASPECT
  - UMD CHAR
- **UP, DOWN – Up or Down Buttons:** Up/down navigation of the selected menu or menu option values.

- **ENTER — Enter Button:** For all the menu options except the UMD CHAR menu, the **Menu** button selects the option and allows you to step through the option's values with the **Up/Down** buttons. Once the option value you want is highlighted, press the **Enter** button to select it. In the UMD CHAR menu, press this button to select the UMD character position.

## Using the Menu

Press the **Menu** button to display the menu. When the first menu option appears, pressing the **Menu** button repeatedly will step through each of the options. All of the menus will automatically disappear in about 15 seconds after the last menu operation.

**Table 1–6      OSD (On Screen Display Menu)**

| Menu   | Available Options   |
|--|---|
| METER 1L,<br>METER 1R,<br>METER 2L, or<br>METER 2R | <p>Input audio mode. When the input signal is VGA and DVI-D, no audio mode can be selected.</p> <ul style="list-style-type: none"> <li>• When the input signal is SDI, the available audio modes are: <ul style="list-style-type: none"> <li>• NO</li> <li>• EBD1, through EBD16, (in increments of 1)</li> <li>• AUD1L, AUD1R, AUD2L, or AUD2R</li> </ul> </li> <li>• When the input signal is VIDEO, Y/C, YPBPR, the available audio modes are: <ul style="list-style-type: none"> <li>• NO</li> <li>• AUD1L, AUD1R, AUD2L, or AUD2R</li> </ul> </li> </ul> |
| COLOR TEMP   | <p>Color Temperature. The COLOR TEMP menu is only available when the input signal is VGA and DVI-D. Available options are:</p> <ul style="list-style-type: none"> <li>• D93</li> <li>• D56</li> <li>• D65</li> </ul>  |

**Table 1–6      OSD (On Screen Display Menu)**

| Menu     | Available Options  |
|----------|--|
| ASPECT   | Aspect Ratio: available options are: <ul style="list-style-type: none"><li>• 4:3</li><li>• 16:9</li></ul>  |
| UMD CHAR | UMD Characters. This menu behaves somewhat differently than the others. Instead of selecting a single value, as is typical of the other menu options, you can select the values for up to 10 characters, including: <ul style="list-style-type: none"><li>• Upper case alphabet</li><li>• Lower case alphabet</li><li>• Numerals 0 to 9</li><li>• Many symbols</li></ul> |

## Rotary Knobs

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Pressing any of the knobs repeatedly steps through the configurable options and then finally disappears from the display.

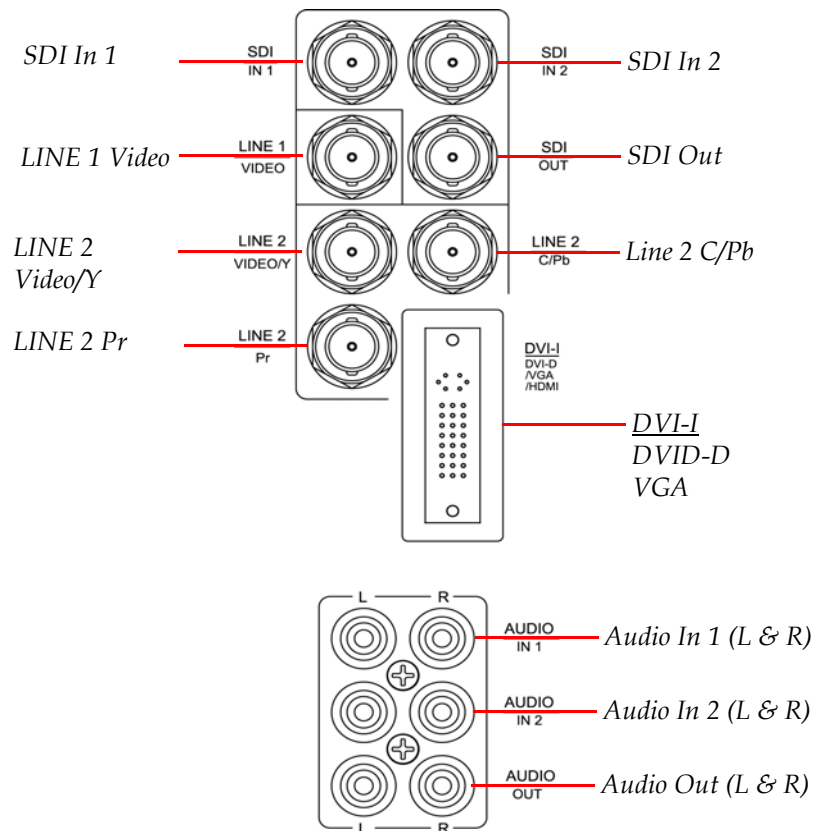
When any of the knobs are set to non-default values, the indicator above the knob lights.

- **PHASE/APERTURE:** Displays and adjusts picture hue and sharpness. Both of the adjustment values range from 0 to 100.  
**Note:** The **APERTURE** adjustment is *not* available for DVI-I inputs of VGA or DVI-D.
- **CHROMA:** Displays and adjusts picture color saturation. Adjustment values range from 0 to 100.  
**Note:** When the input signals are VGA or DVI-D, this knob is not available.
- **BRIGHT:** Displays and adjusts picture brightness. Adjustment values range: 0 through 100.

- **CONT/B.LIGHT:** Displays and adjusts image contrast and backlight intensity. Both of the adjustment values range from 0 to 100.  
**Note:** Backlight intensity is a factor in the operating life of the backlight. Reducing the intensity will lengthen the backlight life and increasing the intensity will decrease backlight life.
- **VOLUME:** Pressing the knob toggles the mute on and off. Turning the knob will adjust the speaker volume. **VOLUME** adjustment range is from 0 to 30.  
**Note:** For VGA or DVI-D input signal, there is no audio and the default is **MUTE**.

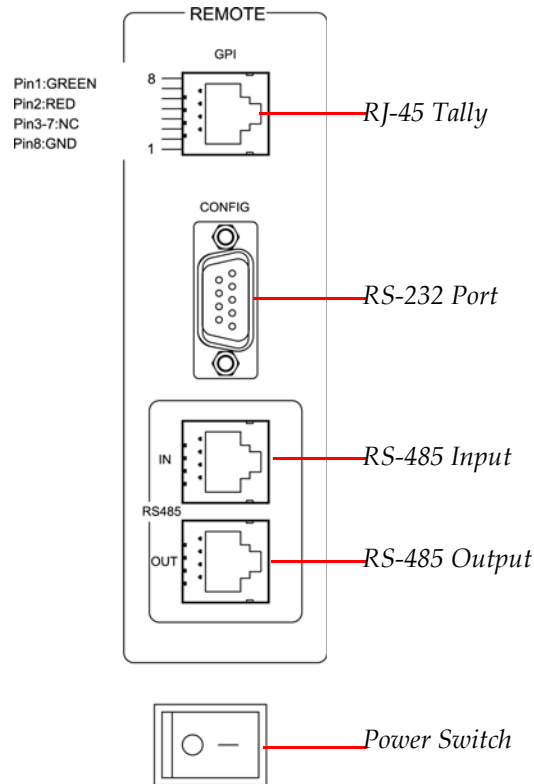
## Rear Panel Connectors and Controls

Figure 1–7 Rear Panel (Left Side)



- **SDI IN 1 – SDI 1 Input:** SD-SDI input signal that is in compliance with SMPTE259M and ITU-R BT656 standard.  
**Note:** This connector is disabled on the RMT-150-A.
- **SDI IN 2 – SDI 2 Input:** SD-SDI input signal that is in compliance with SMPTE259M and ITU-R BT656 standard.  
**Note:** This connector is disabled on the RMT-150-A.
- **SDI OUT – SDI Output:** Output terminal for selected SDI signal.
- **LINE1 (VIDEO) – LINE 1 Input:** Analog composite video signal only.
- **LINE2 (VIDEO/Y) – LINE 2 Input:** Analog composite video input signal, or luminance (Y) signal of Y/C or YPrPb.
- **LINE2 (C/Pb) – LINE 2 Input:** Chroma (C) signal of Y/C or Pb (Blue) component of YPrPb.
- **LINE2 (Pr) – LINE 2 Input:** Pr (Red) component of YPrPb.
- **DVI-I(DVI-D/VGA) – DVI-I Input:** DVI analog/digital. Requires adapter for VGA signals. Doesn't support HDMI input signals.
- **AUDIO IN 1 – Analog Audio (IN 1):** Input terminal for the analog audio signal. **L:** left audio channel; **R:** right audio channel.
- **AUDIO IN 2 – Analog Audio (IN 2):** Input terminal for the analog audio signal. **L:** left audio channel; **R:** right audio channel.
- **AUDIO OUT – Analog Audio Output**

Figure 1–8 Rear Panel (Right Side)



- **RJ-45 Tally:** This connector allows you to light and change of the colors of the tally light on the top of the front panel.

Figure 1–9 Tally GPI RJ-45 Pin Numbering Schema

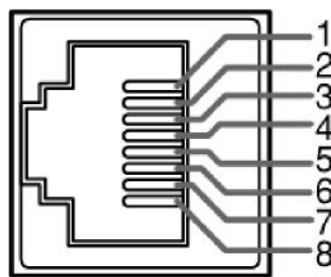


Table 1–7 Tally Color Definitions

| Status | GPI 1 Pin | GPI 2 Pin |
|--------|-----------|-----------|
| Green  | GND       | Open      |
| Red    | Open      | GND       |
| Orange | GND       | GND       |

- **RS-232 Port:** This serial port allows for external communications and control.

Table 1–8 RS-232 Female DB-9

| Pin | RS232 Signal |
|-----|--------------|
| 2   | RXD          |
| 3   | TXD          |
| 5   | GND          |

- **RS-485 (In/Out) Ports:** These ports allow for external communications and control, but are not currently used.

Figure 1–10 RS-485 Pin Numbering Schema

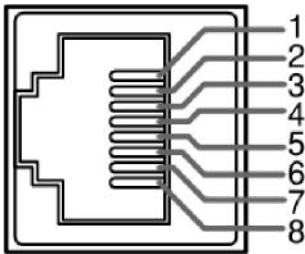


Table 1–9 RS485 Pin Out

| Pin  | RS485 In terminal | RS485 Out Terminal |
|------|-------------------|--------------------|
| 1, 2 | GND               | GND                |
| 3    | Tx-               | Tx-                |
| 4    | Rx+               | Rx+                |
| 5    | Rx-               | Rx-                |
| 6    | Tx+               | Tx+                |
| 7, 8 | NC                | NC                 |

- **Power Switch:** This toggle switch turns A/C power on. See also *Power Standby/On Switch* on page 11.
- **Power Input Connector:** A power source with the capacity of more than 45W is recommended.

# Technical Functional Overview

Figure 1–11 and Figure 1–12 on page 23 illustrate the overall functionality of the RMT-150 Series monitors.

Figure 1–11 RMT-150-A Block Diagram

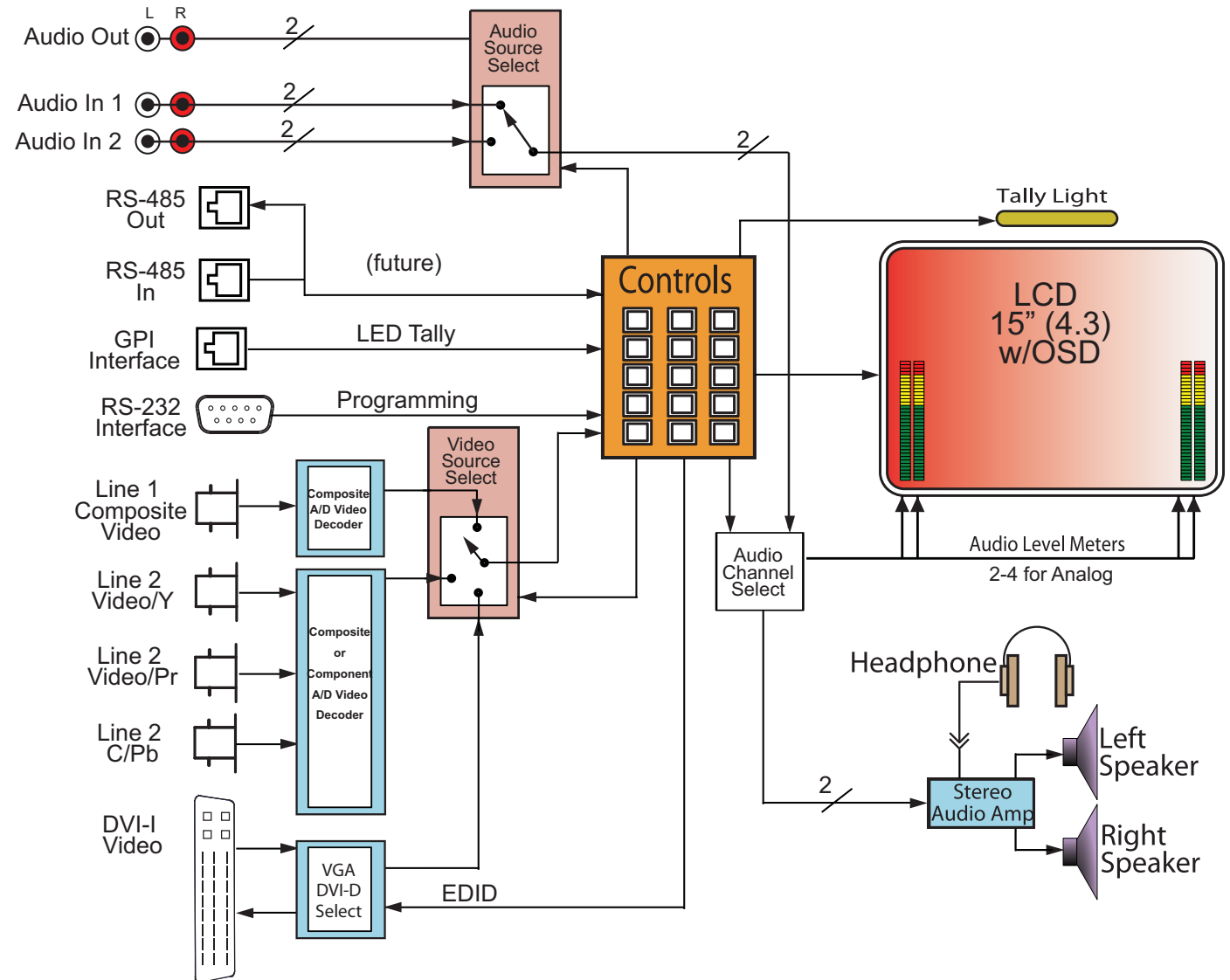


Figure 1–12 RMT-150-SD Block Diagram

