Before you set up and operate your MB-650, see the “Important Safety Instructions” section in the MB-650 User Manual. The MB-650 User Manual is available on the Gear Documentation disc that accompanied your unit.

Keep the following in mind when installing your MB-650:
- Install the MB-650 for maximum stability and adequate ventilation
- Ensure the MB-650 is installed in free air space where the ambient temperature is monitored and controlled to not exceed 40°C (104°F) at the frame front door airflow intake
- Ensure that adequate space exists in front and behind the MB-650 and on both sides of the frame for airflow exhaust
- The location of the MB-650 should be accessible, dry, and dust-free

Physical Specifications

<table>
<thead>
<tr>
<th>Clearance</th>
<th>Side: 2.00&quot; (50mm)</th>
<th>Rear: 3.00&quot; (75mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>3.5&quot; (8.89cm)</td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td>19.00&quot; (48.26cm)</td>
<td></td>
</tr>
<tr>
<td>Depth</td>
<td>8.50&quot; (21.59cm)</td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>maximum: 40°C</td>
<td></td>
</tr>
</tbody>
</table>

SDI Input and Output

- **Number of Inputs**: 1
- **Connector Type**: 75ohm BNC
- **Signal Level**: 800mV nominal
- **Return Loss**: -10dB to 3Gb/s

SDI Output and Monitor Output

- **Number of Outputs**: 2
- **Connector Type**: 3-pin terminal blocks
- **Reference Level**: -20dBFS + 4dBu
- **Frequency Response**: -0.05dB/20Hz-20kHz
- **Distortion**: <0.01% THD+N

### Specifications

**Power**

- **Consumption**: 90-240VAC, 50/60Hz
- **Power**: 20W

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**Notes**:
- The MB-650 powers automatically when the power supply is plugged in.
- Shorting the I pin to the G pin will mute the front speakers, and the audio level on the rear monitor ports will be controlled by the front volume knob.
- Contact your IT Department before connecting to your facility network to ensure that there are no conflicts.
The DashBoard client software enables you to monitor and configure the MB-650 from a computer connected to your facility network. The MB-650 provides two interfaces in DashBoard that display as nodes in the Tree View under the MB-650: Network Connect, and the MB-650 interface.

To launch DashBoard
1. Ensure the MB-650 is connected to the same network as your DashBoard client computer.
2. Double-click the DashBoard icon on your computer desktop.
4. Wait approximately 30 seconds while the MB-650 establishes network communications.
5. Verify that the MB-650 displays in the Tree View of DashBoard.

If the MB-650 fails to display in DashBoard
1. Verify the ethernet cables are properly connected.
2. Check the link/activity LEDs found on the MB-650 Ethernet port.
3. Ensure the MB-650 network settings for the factory default values.

To access the MB-650 interfaces
1. From the Tree View, expand the node for the MB-650.
2. Select the Slot 0 node to display the Network Connect interface in the right-half of the DashBoard window.
3. Select the Slot 1 node to display the audio interface in the right-half of the DashBoard window.

Once communication is established with the MB-650, the network settings can be adjusted using the following procedure. Note that the steps are optional, you may perform as many, or as few, as needed.

To change the MB-650 network settings
1. From the Tree View, expand the node for the MB-650.
2. Select the Network Connect node.
3. Use the Addressing Mode options to change between Static and DHCP addressing.
4. Use the IP Address field to specify the address of the MB-650.
5. Use the Subnet Mask field to specify the subnet mask for your LAN.
6. Use the Default Gateway field to specify the IP Address for connection outside the subnet.
7. Click Apply to save and apply the new settings.

Using the Control Panel
Selecting the audio channels you want to monitor is provided by the push-buttons located below the audio meters, allowing you to select which stereo pair to route to the speakers.

Use the four Mode push-buttons to specify the output mode as follows:
- L — routes the left channel of the selected source to the speakers
- R — routes the right channel of the selected source to the speakers
- SUM — allows any of the channels to be summed together to monitor more than one source at a time
- Lt/Rt — provides an Lt/Rt downmix of your 5.1 surround audio

To set a new Master Password for the MB-650
1. From the Tree View, right-click the MB-650 node.
3. Select the box for the MB-650 you wish to set a new password for.
4. Type the current password in the Old Password field.
5. Type the new password in the New Password field.
6. Click OK to apply the new password.

To setup the audio monitoring via DashBoard
1. From the Tree View, expand the node for the MB-650.
2. Select the MB-650 node.
3. Use the Input Source field to specify the audio channel to route to the speakers.
4. Use the Volume field to set the volume level of the speakers.

Having a problem? Call our free, 24-hour technical support hotline to speak with a live product specialist located right here in our facility.
Tel: (+1) 613 • 652 • 4886
Email: techsupport@rossvideo.com