Keep the following in mind when installing your MB-652-DUO:

- Install the MB-652-DUO for maximum stability and adequate ventilation
- Ensure the MB-652-DUO is installed in free air space where the ambient temperature is monitored and controlled to not exceed 40°C (104°F) at the front frame door airflow intake
- Ensure that adequate space exists in front and behind the MB-652-DUO and on both sides of the frame for airflow exhaust
- The location of the MB-652-DUO should be accessible, dry, and dust-free

Specifications

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</table>

Power Cabling

- The MB-652-DUO powers on automatically when the power supply is plugged in.

Video and Audio Cabling

- For a -20dBFS input, there will be a +4dBu output.

GPIO Cabling

- 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.

Ethernet Cabling

- The MB-652-DUO connects to the network through the Ethernet port.

RYL System Reference

- The MB-652-DUO is designed to work in conjunction with the RYL System Reference, providing seamless integration for video monitoring applications.

Important Regulatory and Safety Notices

- Before setting up and operating your MB-652-DUO, refer to the "Important Regulatory and Safety Notices" document that was included with your MB-652-DUO.

SDI Inputs and Outputs

- Number of Inputs: 2
- Number of Outputs: 2
- Connector Type: 75Ω BNC
- Impedance: 75Ω
- Signal Level: SD: 100m @ 2KHz, HD: 100m @ 2KHz
- Cable Equalization: SD: 200m @ 270Mps, HD: 100m @ 1.5Gbps, PD: 80m @ 2.5Gbps

AES Input

- Number of Inputs: 2
- Connector Type: 3-pin terminal blocks
- Impedance: 80Ω/10Ω
- Signal Level: HD: 100m @ 2KHz
- Cable Equalization: -4dBu, +4dBu

Analog Inputs

- Number of Inputs: 2
- Connector Type: 3-pin terminal blocks
- Impedance: 80Ω/10Ω
- Signal Level: HD: 100m @ 2KHz
- Cable Equalization: -4dBu, +4dBu

Analog Audio Monitor Output

- Number of Outputs: 2
- Connector Type: 3-pin terminal blocks
- Impedance: 80Ω/10Ω
- Signal Level: HD: 100m @ 2KHz
- Cable Equalization: -4dBu, +4dBu

Physical Specifications

- Clearances: Side: 2.00" (50mm), Rear: 3.00" (75mm)
- Height: 3.5" (88mm)
- Width: 10.00" (25cm)
- Depth: 8.5" (21.6cm)
- Temperature: Maximum: 40°C

Power

- Consumption: 100-240VAC, 60Hz/50Hz
- Power: 90W

Note: Before connecting to your facility network, ensure that there are no conflicts.

Note: Configure the DIP Switches as required to establish initial communications between the MB-652-DUO and DashBoard. The figure below shows all DIP Switches in the default UP position.
Using DashBoard

The DashBoard client software enables you to monitor and configure the MB-652-DUO from a computer connected to your facility network. There are three interfaces in DashBoard that display as nodes in the Tree View: Network Connect, the MB-652-DUO interface, and the MB-652-DUO interface.

To launch DashBoard
1. Ensure the MB-652-DUO is connected to the same network as your DashBoard client computer.
2. Double-click the DashBoard icon on your computer desktop.
3. Power on the MB-652-DUO.
4. Wait approximately 30 seconds while the MB-652-DUO establishes network communications.
5. Verify the MB-652-DUO displays in the Tree View of DashBoard.

If the MB-652-DUO fails to display in DashBoard
1. Verify the ethernet cables are properly connected.
2. Check the link/activity LEDs found on the chassis Ethernet port.
3. Ensure the network settings are the factory default values.

To access the MB-652-DUO interfaces
1. From the Tree View, expand the node for the MB-652.
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.
4. Select the Slot 2 node to display the AUX inputs interface in the right-half of the DashBoard window.

Network Configuration

Once communication is established with the MB-652-DUO, 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-652-DUO network settings
1. From the Tree View, expand the node for the MB-652-DUO.
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-652-DUO.
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.

Audio Setup via Panel

Setting the Master Password

Right-clicking an MB-652-DUO node in the Tree View of DashBoard provides the option to Lock/Unlock Access. Locking an MB-652-DUO requires the user to enter a Master Password before gaining access to the MB-652-DUO. Refer to the MB-652-DUO User Manual for details on setting the SW3 DIP Switch.

To set a new Master Password for the MB-652-DUO
1. From the Tree View, right-click the MB-652-DUO node.
3. Select the box for the MB-652-DUO 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.

Audio Setup via DashBoard

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 setup the audio monitoring via DashBoard
1. From the Tree View, expand the node for the MB-652-DUO.
2. Select the node for your MB-652-DUO.
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