



Installation and Operating Instructions MR173 Infrared Controller

Congratulations and thank you for choosing this Knöll product. The MR173 is an infrared signal controller designed to be used with the MVP64 and Grande controller-amps as well as the Ultimo and MR640 controllers. It is used when zones or rooms music and sound are to be individually controlled by an infrared receiver (and remote control) or external computer without the use of a keypad.

Each room needing control requires an infrared receiver, usually located in that room. Commands from the RB8 remote control (or remotes cloned with the RB8 commands) for each room are detected and converted to the digital language the controller can understand for further action. Infrared pass through is always active with the MR173, so most other brand remote control signals can be used to control source equipment. In certain installations the MR173 is used to interpret computer generated commands for each zone or room using an emitter output without a remote control or infrared receiver.

Each MR173 is configured for three room inputs. Any or all inputs can be used in an installation. Inputs not being used can still accept keypads. The three infrared receivers connected to the MR173 are conventional three wire styles. The MR173 can accept up to three individual two-wire emitter inputs. The MR173 is connected to the MVP64, MR640 and Grande controllers by a single cat 5 wire with RJ45 connectors (not included). The MR173 provides 12VDC power for the infrared receivers.

Supported commands are: Power on then select source 1, 2, 3 or 4 and set volume at about 35%; select source 1, 2, 3, or 4; mute; unmute; volume up; volume down, this room power off and all room

power off (hold remote power button for 5 seconds).

Installation

The MR173 should only be installed when the amp-controller is powered off and the mains power is unplugged. The MR173 is connected to the MR640, MVP64 or Grande controller with a single cat 5 wire using all 8 wire conductors and RJ45 8/8 plugs (installer provided).

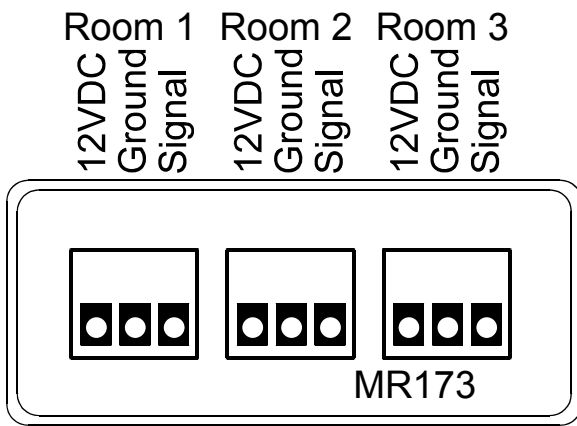
Power for the MR173 and the connected infrared receivers is from the amp-controller and an external power supply is not required.

Note: A 3-wire infrared receiver connected to a MR173 and a MR60 keypad cannot both be installed to control sound in the same room. The MR60 keypad has an infrared receiver built into it.

The MR173 can be located anywhere convenient, usually near the controller.

Install the 3 wire infrared receivers in the room(s) requiring them. Bring the wires to the location of the MR173. Connect the wires from the infrared receiver located in the first room to the blue screw terminal labeled Room 1. V means 12VDC, G means ground and S means signal (or to emitters). Verify the connections.

Emitter outputs from external controllers are connected to the S and G terminals only. If you are connecting one or two other rooms to this MR173, then connect the second room wires to the blue screw terminal labeled Room 2. If you are connecting a third room to this MR173, then connect the third room wires to the blue screw terminal labeled Room 3.



Lastly connect the MR173 to the controller or controller-amp with a single cat 5 wire and RJ45 plugs, using all 8 conductors. Plug the connector into keypad jack A1 or B1 (technically the MR173 can be connected to any keypad jack). If the cat 5 wire from the MR173 is plugged into A1, then the infrared receiver wired to room 1 on the MR173 will control the A1 outputs, the infrared receiver wired to the room 2 on the MR173 will control the A2 outputs and the infrared receiver wired to the room 3 on the MR173 will control the A3 outputs.

Similarly, if the cat 5 wire from the MR173 is plugged into B1, then the infrared receiver wired to room 1 on the MR173 will control the B1 outputs, the infrared receiver wired to the room 2 on the MR173 will control the B2 outputs and the infrared receiver wired to the room 3 on the MR173 will control the B3 outputs.

If only one or two room(s) is to be controlled by the MR173 then the remaining two or one room(s) can be controlled by MR60 keypads. Be sure to select the room 2 or room 3 dipswitch on the rear of the MR60 keypad.

Operation

The infrared receiver controlled rooms cannot do any whole house functions except turn off the whole system (press off button for 5 seconds). If whole house functions are required a keypad will have to be installed.

Turn This Room On

1. Make sure MVP64 amplifier front panel power button is on (in) and the led color is orange or green.

Note: The RB8 remote power button is not used to turn the system on.

2. Momentarily push the RB8 remote input button 1-4. The RB8 remote input buttons correspond to the MR60 source button layout and the source inputs on the rear of the controller. After the input is initially selected the volume always starts at about 35%.
 3. If the sources don't turn on automatically, turn them on manually or with their remote control(s).
 5. Adjust the volume on the RB8 remote in this room only.

Turn This Room or Whole House Off

1. Momentarily press the RB8 remote "POWER" button. If this was the only room turned on, then the whole system will shut off. If any other room was turned on, only this room will shut off.
 2. To shut down the whole system at any time, press the RB8 remote "POWER" button for 3-5 seconds.
 3. Sources may have to be turned off manually or by remote.

Change Sources

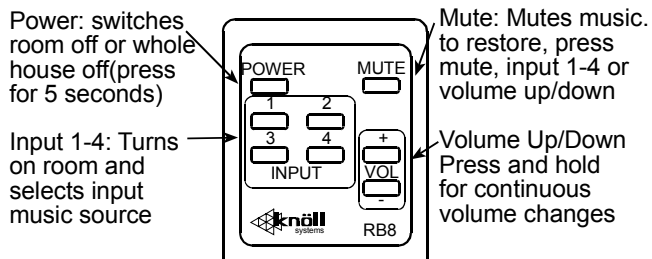
Press another input source button on the RB8 remote control button. The RB8 remote input buttons correspond to the source layout of the MR60 keypads.

Volume Up and Down

Press the volume up or down button on the RB8 remote. Holding the button gives continuous changes.

Mute

Momentarily press the mute button on the RB8 remote. To restore the sound press the mute, volume up or down, or any source or input button and the source selected when the mute button was first pressed is restored.



RB8 Remote Control Functions

The MR173 size is 67mm x 73mm x 28mm (2.7" x 2.9" x 1.1").

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