SONIFEX

Reference Monitor Controllers

Catalogue

Reference Monitor Controllers

The Reference Monitor Controllers are a range of 1U rack-mount audio production control units, for providing source selection, volume, DIM and CUT controls for external analogue monitors, together with light controls for the Sonifex SignalLED range of studio signs, or similar.

Each of the products has a light control section. This section has 3 buttons: Transmit (TX), STANDBY and Rehearse (REH). The TX and REH buttons control opto-isolated outputs on the rear panel remote connector, and these provide a direct control interface to the Sonifex SignalLED illuminated studio sign, allowing twin signs to be controlled individually.

The Standby button initiates a 2 minute countdown where the TX and REH buttons and their associated remote outputs flash alternately. After the 2 minutes has elapsed, the TX output remains on.

The remote port also has open-collector tally outputs for Transmit (TX), Rehearse (REH), as well as remote input control for the audio controls DIM and CUT, and the light controls TX, Standby and REH. There is also a +12 Volt source at 200mA maximum.

The TX, STANDBY and REH buttons can optionally be replaced if you want to use different buttons for other applications.

There are four Monitor Controller products:

- RM-MC1L Monitor Controller, Single Stereo Input & Output With Light Control
- RM-MC4L Monitor Controller, 4 Stereo Inputs, 1 Output With Light Control
- RM-MC51L Monitor Controller, 5.1 Stereo Inputs & Outputs With Light Control
- RM-MCL Monitor Light Controller, 3 Button, TX-STANDBY-REH

RM-MC1L Monitor Controller, Single Stereo Input & Output With Light Control

Category: Reference Monitor Controllers.

Product Function: Volume control, dim and mute control of powered speakers with Rehearse/Transmit light control.

Typical Applications: Production control room, live studio broadcasts, recording studios.

Features: Separate remoteable DIM & CUT buttons, tally outputs for REH and TX, DIM level control.

The RM-MC1L is a stereo unit with a single stereo balanced analogue input and output on XLRs. Useful in a production environment, the unit allows you to control the audio level to external monitors and to DIM the audio, or CUT it completely with simple front panel controls, or remote external inputs.

It has a master volume control that adjusts the attenuation on the output channels from 0dB down to -86dB. A CUT control mutes the audio outputs when enabled, whilst a rear panel DIM control attenuates the audio output channels by a pre-set amount from -2dB to -23dB.

All of the buttons on the front panel are illuminated by LEDs and the brightness can be changed to better suit the environment in which the unit is used.

The remote port allows control of the DIM and CUT buttons and has tally outputs for TX (transmit) and REH (rehearse).

REFERENCE MONITOR

RM-MC4L Monitor Controller, 4 Stereo Inputs, 1 Stereo Output With Light Control

Category: Reference Monitor Controllers.

Product Function: Volume control, dim and mute control of powered speakers with a 4 source selector and Rehearse/Transmit light control.

Typical Applications: Production control room, live studio broadcasts, recording studios.

Features: 4 input source selector, separate remoteable DIM & CUT buttons, tally outputs for REH and TX, DIM level control.

The RM-MC4L has four stereo balanced analogue inputs with a single stereo balanced output, all using XLR connectors.

Four illuminated front panel buttons allow you to simply select the source required at the output.

The RM-MC4L has the same master volume control, CUT, DIM and light control functions and adjustments as the RM-MC1L unit.

RM-MC51L Monitor Controller, 5.1 Stereo Inputs & Outputs With Light Control

Category: Reference Monitor Controllers.

Product Function: Volume control, dim and mute control of surround sound powered speakers with Rehearse/Transmit light control.

Typical Applications: 5.1 speaker system level control, production control rooms, live studio broadcasts, recording studios.

Features: Separate remoteable DIM & CUT buttons, tally outputs for REH and TX, DIM level control.

The RM-MC51L is a controller for surround sound applications with 6 balanced analogue inputs and 6 balanced analogue outputs all on XLR connectors.

It is used in situations where you need to adjust the volume, or CUT, or DIM all of the speakers in a 5.1 surround system. Alternatively, the unit can be used as a global volume control for 6 analogue outputs.

The RM-MC51L has the same master volume control, CUT, DIM and light control functions and adjustments as the RM-MC1L unit.

RM-MCL Monitor Light Controller, 3 Button, TX-STANDBY-REH

The RM-MCL is a simple light controller for controlling a TX - STANDBY - REH light system in a production studio, as detailed in the introduction. It has no audio inputs or outputs.

Specification For RM-MC1L, RM-MC4L, RM-MC51L & RM-MCL Reference Monitor Controllers

Audio Specification

Input Impedance:	>20kΩ
Maximum Input Level:	+25dBu
Output Impedance:	<50Ω
Maximum Output Level:	+25dBu
Attenuation Range:	>86dB
DIM Attenuation Range:	Adjustable -3dB to -23dB via rear panel potentiometer
Common Mode Rejection:	>66dB typical
Distortion:	<0.04% ref +8dBu
Crosstalk:	<-80dB @ 1kHz input, ref 0dBu

Front Panel Operation Controls

Light Control (All units):	Transmit (TX), Standby & Rehearse (REH) illuminated buttons
Channel Select (RM-MC4L):	1, 2, 3 & 4 illuminated buttons
Audio Controls:	DIM & CUT illuminated buttons (not on RM-MCL)
Volume Control:	Rotary potentiometer for output attenuation on front panel (not on RM-MCL)

Rear Panel Connections

Audio Inputs (RM-MC1L):	2 x XLR 3-pin female (balanced)
Audio Inputs (RM-MC4L):	8 x XLR 3-pin female (balanced)
Audio Inputs (RM-MC51L):	6 x XLR 3-pin female (balanced)

Audio Outputs (RM-MC1L & RM-MC4L):	2 x XLR 3-pin male (balanced)
Audio Outputs (RM-MC51L):	6 x XLR 3-pin male (balanced)
Remote I/O Port:	15 way D-type socket
Mains Input:	Filtered 3-pin IEC male, continuously rated 85-264VAC, 47-63Hz, fused

Power Consumption:

RM-MC1L	Peak 10W, average 4W
RM-MC4L	Peak 10W, average 6W
RM-MC51L	Peak 10W, average 7W
RM-MCL	Peak 10W, average 2W
Fuse Rating:	Anti-surge fuse 1A, 20 x 5mm

Equipment Type

RM-MC1L:	Monitor controller, single stereo input & output with light control
RM-MC4L:	Monitor controller, 4 stereo inputs, 1 stereo output with light control
RM-MC51L:	Monitor controller, 5.1 stereo inputs & outputs with light control
RM-MCL:	Monitor light controller, 3 button, TX-STANDBY-REH

Physical Specification

Dimensions (Raw):	48cm (W) x 10.8cm (D) x 4.3cm (H) 19" (W) x 4.3" (D) x 1.7" (H) (1U)
Dimensions (Boxed):	58.5cm (W) x 22.5cm (D) x 7cm (H) 23" (W) x 8.9" (D) x 2.8" (H)
Weight :	Nett: 1.3kg Gross: 1.9kg Nett: 2.9lbs Gross: 4.2lbs

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