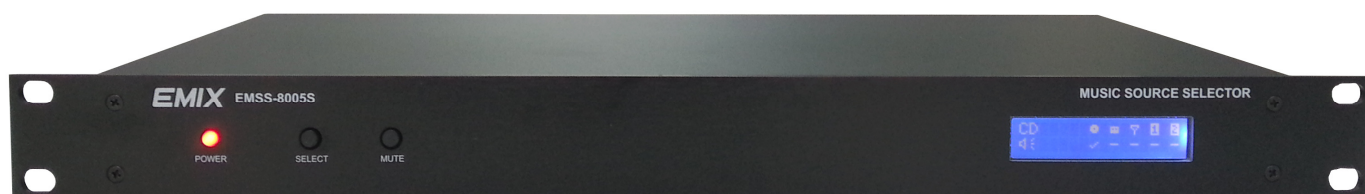




OPERATIONAL MANUAL

EMSS-8005S

MUSIC SOURCE SELECTOR



Version 1.5

Product Overview

The **EMSS-8005S** is a 1U rack-mounting unit that produces a stereo analogue audio output from five selectable stereo analogue input sources. There are two push buttons on the front panel for channel selection and muting purpose. A LCD panel on the front panel is to indicate the current channel selection.

A built-in dry contact at the rear panel of the unit for multiple purpose, eg. muting. This feature allows users that require emergency overriding from another system to mute the background music.

A LED on the front panel shall indicate the presence of power to the unit. This unit has built in microchip that is able to recall the last channel selected during power failure or sudden cut off in power. The unit will resume the last present setting when power supply is resumed.



Features

- Five numbers of balanced input and one balanced output with RCA connection ready
- This source selector is using high quality switching relays which provide electronics hissing noise elimination. Therefore, it is suited to be used in professional sound system and also in studio recording environment.
- Muting function is available
- Muting function is driven by the dry contact mute circuit at rear panel for emergency purpose
- Compact 1U-high with 19" wide metal enclosure
- Built-in Microchip microcontroller
- LCD display panel with blue back-lit
- Eliminate cable hassle
- This model accepts balanced stereo audio inputs
- Easily being integrated with EMIX range public address equipments
- This unit is suitable for Back Ground Music source selector

Front View and Rear View

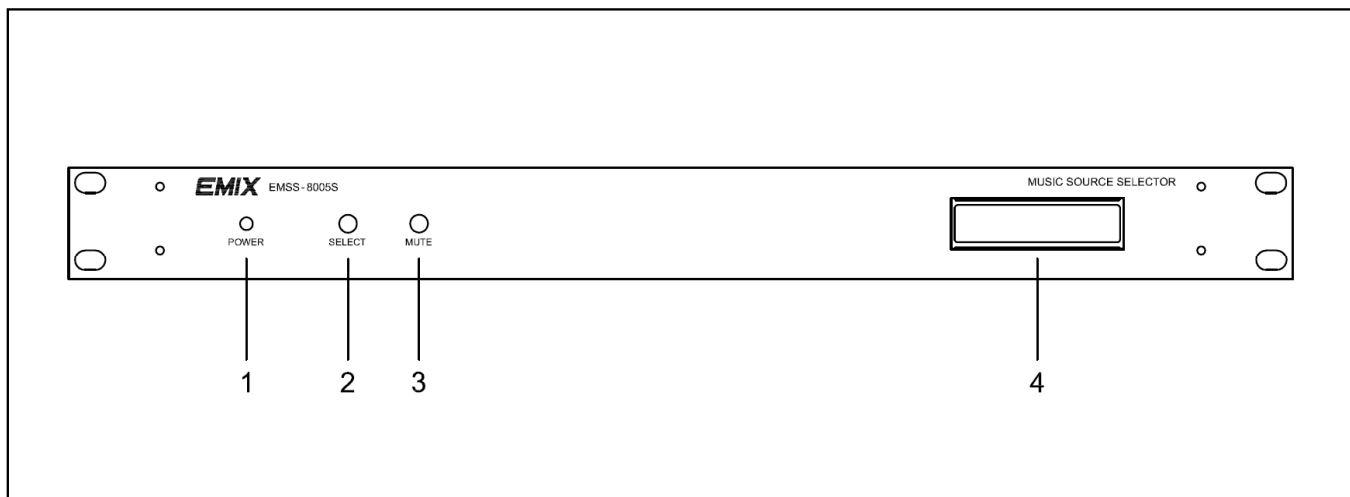


Figure 1.1 Front view of the Music Source Selector

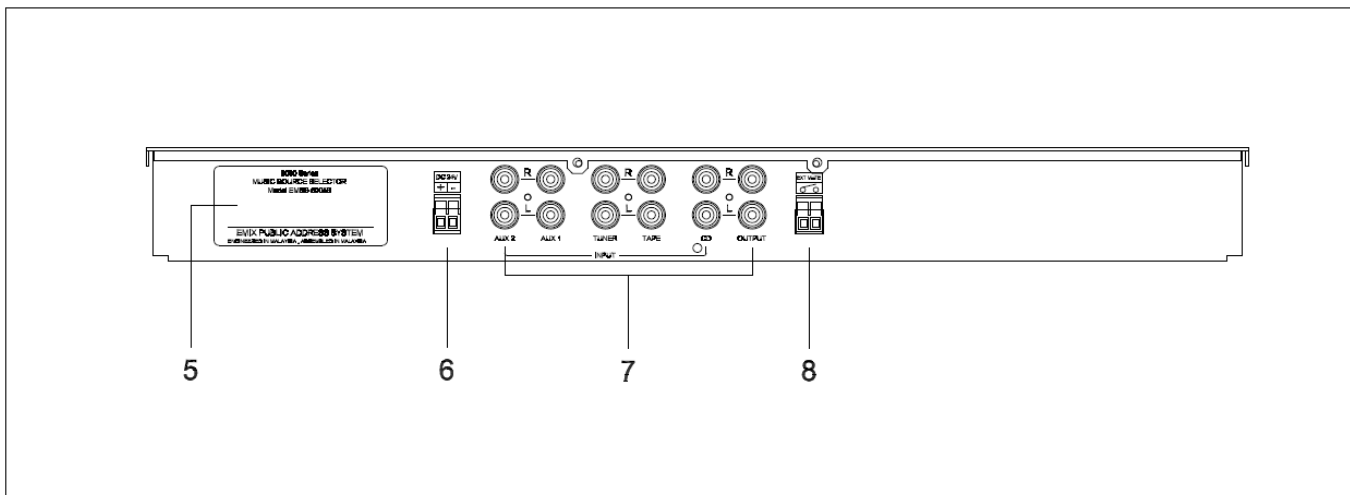


Figure 1.2: Rear view of the Music Source Selector

Front Panel and Rear Panel Indication

EMSS-8005S Music Source Selector

1.1.0 Front Panel Indicator

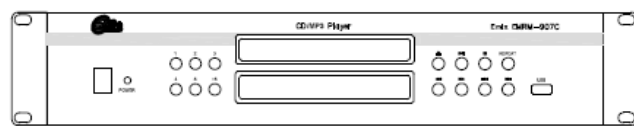
- 1 **Power LED** – Indicates power is applied to the unit.
- 2 **SELECT** button – To select an input source.
- 3 **MUTE** button – To mute the selected input.
- 4 **LCD Display** – Display the status of the unit and the selected input source.

1.2.0 Rear Panel connection

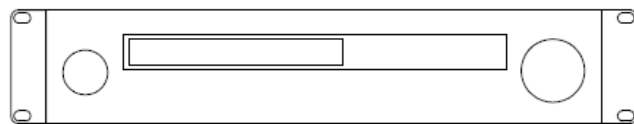
- 5 **Model & Serial number** – Indicates the Music Source Selector EMSS-8005S's serial numbers.
- 6 **Power Inlet** – Power terminal connection for the Music Source Selector EMSS-8005S using 12 to 24VDC ($\pm 10\%$) power supply. When connecting the power inlet, ensure the polarity is correct.
- 7 **Audio signal inputs** – RCA connectors for connection to stereo sources such as AM/FM Tuners, CD players, AUX1, and AUX2.
- 8 **External Mute** – External muting contact to mute all input sources once this terminal is shorted. To resume the operation, please release the contact.

Schematic Diagram / connection diagram

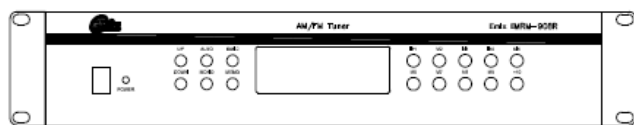
Source Selector Circuit Diagram



CD/MP3 Player EMRM-907C



DVD Player



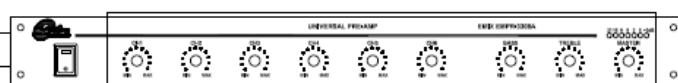
AM/FM Tuner EMRM-908R



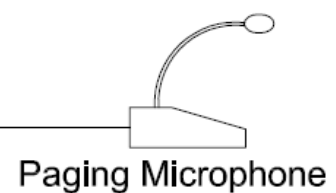
Auxiliary Input



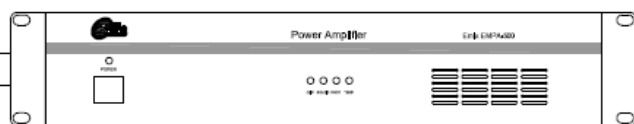
Music Source Selector EMSS-8005S



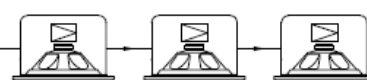
6 Channel Universal Pre-Amplifier EMPR-3306A



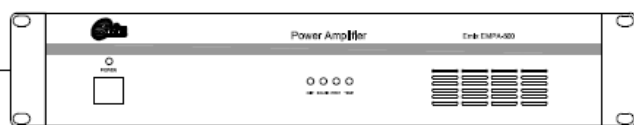
Paging Microphone



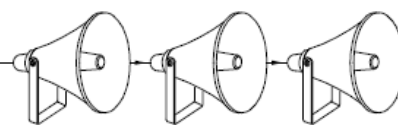
Power Amplifier EMPA-500



Ceiling Speakers



Power Amplifier EMPA-500



Horn Speakers

Operation

Source signals input

Connect source signals for examples: CD players, MP3 players, AM/FM tuners, etc. to the source inputs via RCA connectors. The inputs receive unbalanced stereo signals.

User can select the inputs by pressing the select button. The selected input source will be shown in the LCD panel. For selecting another input source, user can straight away press the SELECT button to select another input source. To mute the selected source, press the MUTE button to mute the selected source.

Mute All Operation

To mute all the input sources, use the mute all contact at the rear panel of the unit. Short the contact to mute all the input sources. To resume the operation, release the contact connection. This contact is non-latching contact. This feature allows user to override the background music from external unit during emergency.

The figure below shows that the LCD panel indicates all signals are muted by External Mute contact.

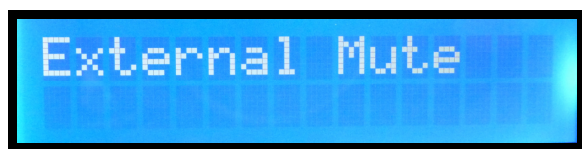


Figure 1: Indicates all the input is muted by External Mute

Operation on Selecting Input

In normal operation, LCD panel's indication is as Figure 1. This figure shows that the CD input is selected, and the output is playing music from the input.



Figure 1: Indicates CD input is selected

To change the input source, press the SELECT button, the unit shall switch from CD input to Tape input.

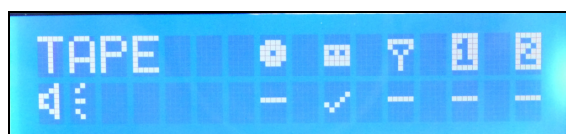


Figure 2: Indicates Tape input is selected

To change the input source, press the SELECT button, the unit shall switch from Tape input to Tuner input.

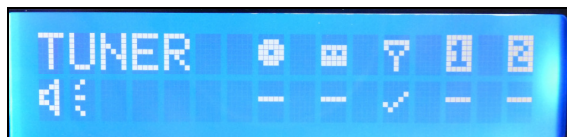


Figure 3: Indicates Tuner input is selected

To change the input source, press the SELECT button, the unit shall switch from Tuner input to Auxiliary-1 input.

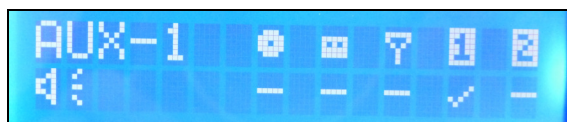


Figure 4: Indicates Auxiliary-1 input is selected

To change the input source, press the SELECT button, the unit shall switch from Auxiliary-1 input to Auxiliary-2 input.

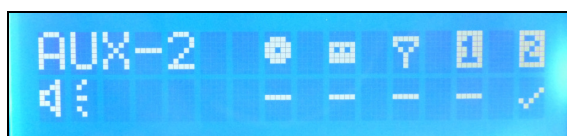


Figure 5: Indicates Auxiliary-2 input is selected

If the SELECT button is being pressed again, the unit will then switch from Auxiliary-2 input back to the CD input.

To adjust the input volume, one should adjust the volume at the mixer until the desired output level is reached.

Operation on Muting an Input

To mute an input, press the MUTE button on the front panel of the unit. The LCD panel will indicate input is being mute. The figure below shows that the LCD panel indicates Auxiliary-2 is muting.

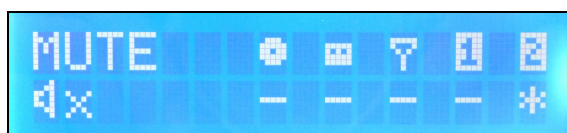


Figure 6: Indicates Auxiliary-2 input is muted

Technical Specifications

Input voltage	24VDC
Max. Power consumption	300mA
Number of inputs	Five: Cassette, CD, FM/AM Tuner, and Auxiliary
Input connectors	RCA jack
Number of output	One: Via RCA jack
Output level	Direct contact
Max. input level	Direct contact up to 3A dc
Frequency response	Direct, no losses and no distortion
Dimension (W x H x D)	483 x 45 x 224mm (1U)
Gross Weight	3.8 kg
Net Weight	3.0 kg

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This warranty does not cover damages caused by misuse, neglect, accident of the products as well as using the product with power supply voltage other than shown on the product, or any other power supply source / adaptor not recommended by the manufacturer. This warranty does not cover damages caused by fire, earthquakes, floods, lightning and every cause not directly related to the unit.

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