Conceptual Audio Solutions

MIDI Module 3000 Version 2
SDD Series Switcher

User Manual

www.conceptualaudiosolutions.ca

Disclaimer: Conceptual Audio Solutions and its product, the MIDI Module 3000, are in no way affiliated with Korg, nor any of its products. The MIDI Module 3000 serves as an independent, third-party product, designed to enhance the functionality of the original Korg SDD-3000 vintage rack delay.

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Warranty

The MIDI Module 3000 is warranted against part failure and/or faulty workmanship for a period of one year after delivery to the original owner. During this period Conceptual Audio Solutions will conduct any work deemed necessary, free of charge, provided that:

- There are no signs of tampering, modification, or opening the unit.
- The warranty label(s) are fully intact.
- Advised precaution and operation (as outlined in this manual) have been followed.

Conceptual Audio Solutions may, at its own discretion, service units whose warranties have expired, free of charge, provided that the preceding criteria has been met and that the precautions outlined in in the following page have been observed.

Conceptual Audio Solutions reserves the right to make modifications to, or improvements upon the product without any obligation to include those changes in previously purchased units.

Please note that in all situations, the customer is responsible for paying all shipping fees to and from Conceptual Audio Solutions. Additionally, all customs and handling fees must be paid by the customer.

To contact Conceptual Audio Solutions concerning a warranty and/or servicing, please send an email to Ian Loiselle at: service@conceptualaudiosolutions.ca

Precautions

For safe and proper functioning of the MIDI Module 3000, the following precautions must always be followed.

DO NOT connect 'switching' or 'switch-mode' power adaptors to the switcher.

DO NOT expose this device to water or any other liquid.

DO NOT expose this device to temperatures less than 0°C, or in excess of 45°C.

DO NOT tamper with, modify or open this device at any time.

DO NOT use any solvents to clean this device. Simply use a clean cloth to wipe the unit.

DO NOT service this device, nor have anyone else, other than Conceptual Audio Solutions service this device. (Please see previous section for servicing information).

DO NOT connect this device to any power source that is not expressly stated in this manual.

DO NOT connect this device to any equipment that is not expressly stated in this manual.

Failure to follow any of the above precautions automatically voids the warranty.

Conceptual Audio Solutions is in no way responsible for any harm or damages caused by misuse of the MIDI Module 3000.

Introduction

Thank you for purchasing the MIDI Module 3000 (MM3k) SDD series switcher, Version 2. This switcher has been specifically designed to provide MIDI control of the Korg SDD-3000 (SDD3k) vintage rack delay.

For over three decades, musicians have admired the sonic character of the SDD3k vintage rack delay. However, with the absence of MIDI capabilities, users have been at a loss when attempting to control the SDD3k in live situations. For this reason, Conceptual Audio Solutions, has designed a solution that bridges yesterday's technology with today's audio standards. The result is the MM3k.

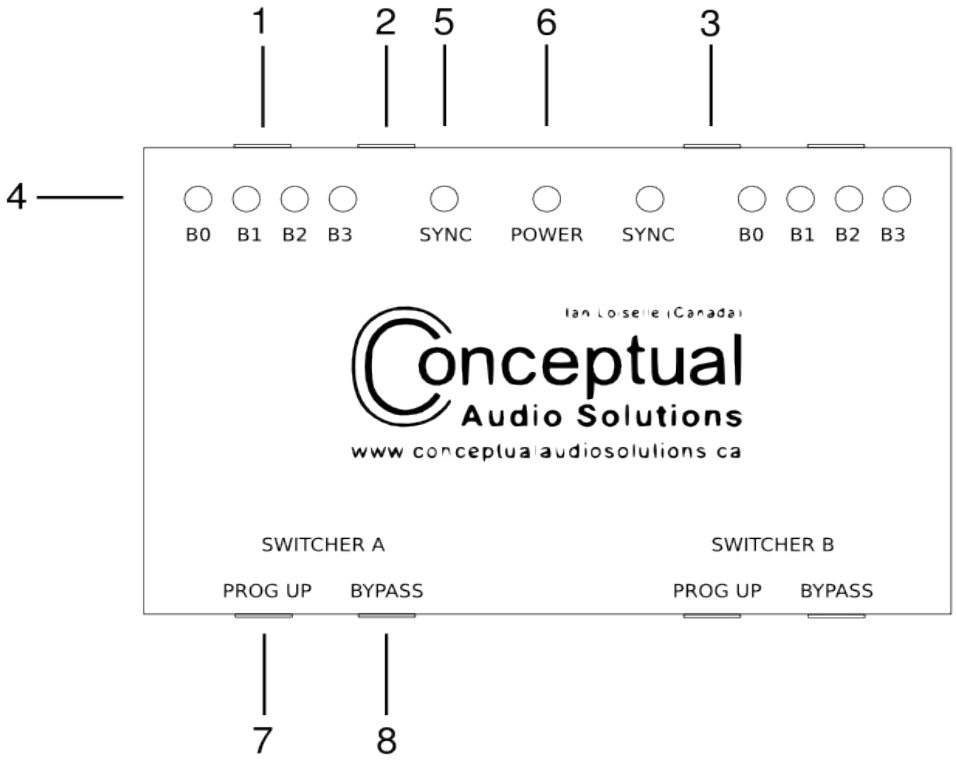
The MM3k is designed to accept MIDI messages from any MIDI controller that sends MIDI Program Changes. The MM3k processes the Program Changes and converts them into logically assigned contact closures, which then access the nine savable presets and the bypass function of the SDD3k.

Musicians can now focus their attention back to the fretboard and leave program changes to the MM3k. Please continue reading this manual to learn more about the features and operation of the MM3k.

Ian Loiselle,
Conceptual Audio Solutions

Features

1. The **MIDI CHANNEL** push button is used to define the MIDI Channel for the MM3k.
2. The **MIDI IN** 5-pin DIN connector accepts incoming MIDI data from a foot controller.
3. The **9VDC** power jack accepts a 2.1m center negative plug, 500mA minimum.
4. The **B0-B3** yellow LEDs indicate the MM3k's defined MIDI Channel.
5. The **SYNC** green LED indicates that the MM3k is internally set to program 1.
6. The **POWER** red LED indicates that power is supplied to the MM3k.
7. The **PROG UP** jack accepts a 1/4” mono cable and connects to the 'PROG UP' control input jack on the back of the SDD3k.
8. The **BYPASS** jack accepts a 1/4” mono cable and connects to the 'BYPASS' control input jack on the back of the SDD3k.



Operation

Installation

Placement of the MM3k in your rig will dependent on your existing system design. A great spot to mount your MM3k is on the inside wall of a rack case, fastening it right next to the input side of the SDD3k. It is also recommended that easy access be made to the MM3k power source for synchronization purposes (see Page 8). If stored in a rack case, this can be achieved through use of a power conditioner with a master switch.

IMPORTANT:

- Do not use switching or switch-mode adaptors. Cables and power adaptor are not included.
- Do not connect any cables, instruments, devices to or from the MM3k, other than what is described below.
- Disconnect the MM3k from power if it is unused for long periods of time.

Setup

1. Connect a standard 1/4” mono cable from the 'PROG UP' jack of the MM3k to the 'PROG UP' control input jack on the back of the SDD3k.
2. Connect a standard 1/4” mono cable from the 'BYPASS' jack of the MM3k to the 'BYPASS' control input jack on the back of the SDD3k.
3. Repeat the above steps if you purchased a dual, or multi-MM3k switcher.
4. Connect a 5-pin DIN, standard MIDI cable from 'MIDI IN' jack of the MM3k to your choice of MIDI foot controller.
5. Connect a 9VDC power source (2.1m center negative plug, 500mA minimum) to the 'POWER' jack of the MM3k.
6. Ensure that both the red POWER LED and green SYNC LED light up.
7. Turn on your SDD3k (See page 8 for synchronizing the SDE3k with the MM3k).
8. The factory default MIDI Channel for the MM3k is 1. To change the MIDI Channel, read the following section.

MIDI Channel Definition (Channel Edit Mode)

Below are instructions on how to change the MIDI Channel defined for the MM3k:

1. Remove power from the MM3k.
2. While holding the MIDI Channel button, re-apply power to the MM3k and wait for the four yellow LEDs (B0 through B3) to turn on and off. The switcher is now in Channel Edit Mode*.
3. Release the MIDI Channel button and the current MIDI Channel will appear.
4. Use the chart below to define your MIDI Channel.
5. To save the MIDI Channel to the MM3k, simply remove and re-apply power to the MM3k.
6. You may now begin using the MM3k to receive Program Changes on the MIDI Channel that you have defined.

MIDI Channel	B0 LED	B1 LED	B2 LED	B3 LED
1	○	○	○	○
2	●	○	○	○
3	○	●	○	○
4	●	●	○	○
5	○	○	●	○
6	●	○	●	○
7	○	●	●	○
8	●	●	●	○
9	○	○	○	●
10	●	○	○	●
11	○	●	○	●
12	●	●	○	●
13	○	○	●	●
14	●	○	●	●
15	○	●	●	●
16	●	●	●	●

* Please note that LEDs B0 through B3 only light up when the switcher is in Channel Edit Mode.

Synchronization

The MM3k can be considered a set-and-forget device. However, one key requirement is that both the MM3k and the SDD3k be in 'sync' with each other for the correct recall of presets.

Synchronizing the MM3k and SDD3k can be achieved by applying power to each unit (the order is not important). If the SDD3k is already powered up, ensure that it is on preset 1, and then re-apply power to the MM3k. The green SYNC light signifies when the MM3k is internally set to preset 1. This light will turn off if another preset has been recalled.

Maintaining synchronization requires that the user refrains from manually incrementing the SDD3k presets via the front panel 'PROG' button. The MM3k eliminates the need for manual incrementation. However, if the two units become out of sync with each other, simply follow the instructions above to regain synchronization.

Usage

The following shows how the MM3k handles relevant MIDI data (assuming that all devices are synchronized).

> MIDI PC1--> MM3k processes MIDI PC1 and recalls SDD3k preset 1
> MIDI PC2 --> MM3k processes MIDI PC2 and recalls SDD3k preset 2
> etc ...
> MIDI PC10 --> MM3k processes MIDI PC10 and enables SDD3k bypass function

Note: Users might notice a slight noise when switching between presets. This is an inherent limitation of the SDD3k, and it can managed by placing your SDD3k in an audio loop and turning the audio loop on after the preset has been achieved on the SDD3k.

Thank you for your interest in my product. I hope that the MIDI Module 3000 V2 helps to extend the use of your vintage Korg delay.

Ian Loiselle,
Conceptual Audio Solutions.