

**MIDI Solutions**

**Merger**

**MultiVoltage**

## **OPERATING INSTRUCTIONS**

MIDI Solutions MultiVoltage Merger Operating Instructions M502-100

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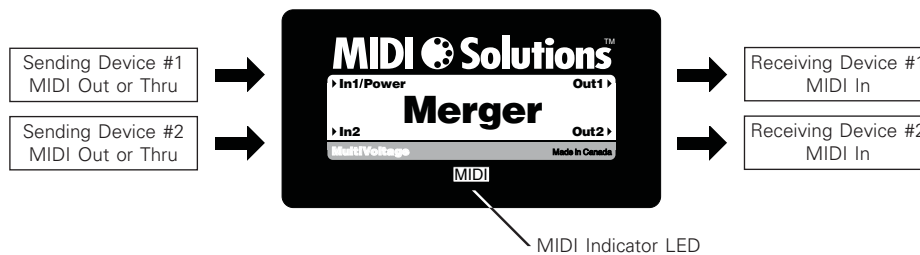
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## INTRODUCTION

Thank you for purchasing the MIDI Solutions MultiVoltage Merger.

The MIDI Solutions MultiVoltage Merger merges MIDI data from two MIDI inputs to its two MIDI outputs, and may be chained together with other MIDI Solutions Mergers for as many inputs are required. The MIDI Solutions MultiVoltage Merger is MIDI-powered and requires no batteries or power supply to operate. It is compatible with products that follow both the 5V and 3.3V MIDI specifications.



## CONNECTIONS

Connect the MIDI Outs or Thrus of the sending MIDI devices to the MIDI inputs (**In1** and **In2**) of the Merger. Connect **Out1** and **Out2** of the Merger to the MIDI Ins of the receiving MIDI devices. The number of MIDI Solutions products that can be chained together is dependent on the specifications of the MIDI output port supplying power – for more information see the MIDI INDICATOR LED section. Since some products make use of unused pins 1 and 3 to pass phantom power, connections to these pins are provided between the **In1** and **Out1** jacks. These pins are not connected to the Merger's internal circuitry. It is recommended that the current passing through these pins be limited to 1 amp.

## OPERATION

Power is provided to the MIDI Solutions Merger by the device that is connected to its first MIDI input, **In1**. If a device does not provide power it can be connected to **In2**. All MIDI messages appearing at the Merger's MIDI inputs are merged to its MIDI outputs **Out1** and **Out2**.

## MIDI INDICATOR LED

The MIDI Indicator LED will light as soon as the sending device is turned on, and flashes briefly whenever MIDI data passes through the unit. If the Merger's operating voltage drops below the threshold at which it is able to provide a MIDI standard drive current of 5 mA, its LED will produce a steady on/off warning flash. After rising above this threshold the LED will continue to produce a steady on/dim flash for 10 seconds. Since the voltage always rises above this threshold on power up, a steady on/dim flash will always be visible for 10 seconds; during this time the unit is operating normally and providing the standard drive current. If the Merger's operating voltage is below 4V its LED will produce a dim flash every four seconds, this signal is for diagnostic purposes and does not affect its operation.

## **WARRANTY**

MIDI Solutions Inc. warrants this product to be free from defects in material and workmanship for a period of one (1) year from date of purchase. This warranty is void if the product has been damaged by accident, misuse, alteration, unauthorized repairs or other causes not arising out of defects in material or workmanship. Under no circumstances will MIDI Solutions be liable for any loss of profits, benefits, time, interrupted operation, commercial loss, or consequential damages arising out of the use or inability to use the product. MIDI Solutions specifically disclaims any implied warranties of merchantability and fitness for a particular purpose. If the product requires service, a Return Merchandise Authorization (RMA) number must be obtained from MIDI Solutions and the product must be shipped prepaid to a specified Service Center. MIDI Solutions will repair or replace the product at our discretion and will pay return shipping fees. The customer is responsible for any damage or loss sustained during shipment in any direction.