

## MMX-6-USB

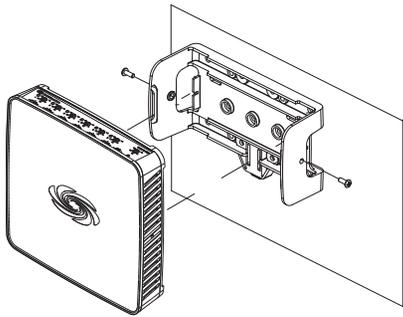
### 6-Channel USB Microphone Mixer

#### DO Install the Device

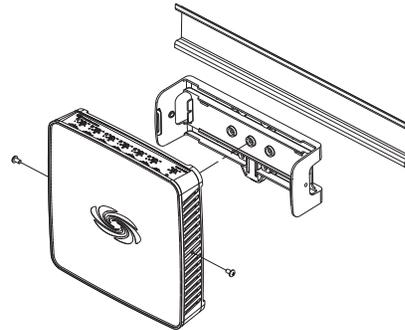
The Crestron® MMX-6-USB can be mounted onto a DIN rail, mounted to any flat surface, or placed on a tabletop. If necessary, use screws that are applicable for the mounting method. See below for installation options.

**NOTE:** The MMX-6-USB can also be rack mounted. For rack mount installation, refer to the RMK-IFE-1U Installation Guide (Doc. 7627) at [www.crestron.com/manuals](http://www.crestron.com/manuals).

Flat Surface Mounting



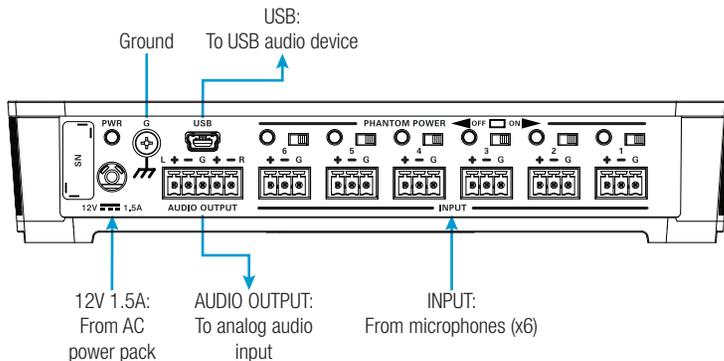
DIN Rail Mounting



**NOTE:** Do not use the supplied screws to mount the bracket to the bottom of the MMX-6-USB if the device will be mounted on a DIN rail. Removing the MMX-6-USB from the DIN rail is not possible.

#### DO Connect the Device

Make the necessary connections as shown in the illustration below. When making connections to the device, use Crestron® power supplies for Crestron equipment. Apply power after all connections have been made.



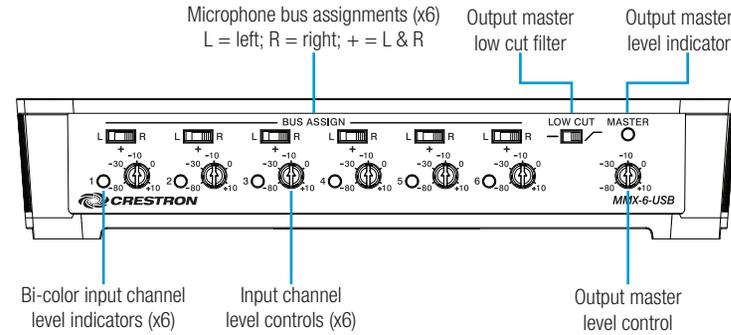
**NOTE:** The AUDIO OUTPUT and USB ports can be connected simultaneously.

#### DO Check the Box

QTY	PRODUCT	COLOR	PART NUM.
1	Bracket, Mounting, Plastic	Black	4522294
1	Cable, USB 2.0, A - Mini B, 15' (5 m)		2035913
6	Connector, 3-Pin		2003575
1	Connector, 5-Pin		2003577
1	Power Pack, 12 Vdc 1.5 A, 100-240 Vac		2045887
2	Screw, 06-32 x 3/8", Pan Head, Phillips	Black	2007225

#### DO Adjust the Settings

Refer to the following illustration, and adjust the controls to achieve the desired results.



#### Set Phantom Power

Each input has switchable phantom power (+48V) for use with condenser microphones. The MMX-6-USB ships with the phantom power switches (located on the rear panel) in the OFF position. When setting up the system, first determine if the microphones to be connected require phantom power. If phantom power is required, ensure that the microphone input's individual gain control remains closed (turned fully counterclockwise), and slide the input's phantom power switch to the ON position. The corresponding LED illuminates.

#### Set the Microphone Input Levels

Each microphone input features an adjustable input channel level control on the front panel. The MMX-6-USB ships with the level controls at the lowest setting (fully counterclockwise, closed position). Use a flat-head screwdriver to adjust each input channel's level.

**NOTE:** When adjusting the input channel level controls, use slow and easy pressure. Do not force the control or rotate past the indicated stop.

Each input has an LED to monitor the signal level. When adjusting the level, monitor the input channel's LED.

- When a signal is present, the LED illuminates green.
- When the LED changes to red during the course of normal speech, it indicates that some clipping is occurring.
- A steady red LED indicates that the input is steadily clipping. When constant clipping occurs, reduce the microphone level. Brief amounts of signal clipping may be acceptable while steady clipping is not.



## Set the Output Master Level

The MMX-6-USB features an adjustable output master level control on the front panel. The MMX-6-USB ships with the level set at the lowest setting (fully counterclockwise, closed position). Use a flat-head screwdriver to adjust the output master level.

**NOTE:** When adjusting the output master level control, use slow and easy pressure. Do not force the control or rotate past the indicated stop.

The output master level control has a single LED to monitor the signal level. When adjusting the level, monitor the output master's LED.

- When a signal is present, the LED illuminates green.
- When a signal is clipping to the analog line level outputs and the input of the USB converter, the LED illuminates red. Do not allow the output master level to clip when using the USB output, as the analog-to-digital converter clips at the same point.

## Set the Low-Cut Filter

The MMX-6-USB has a switchable, low-cut filter that minimizes any unwanted low-frequency handling or mechanical noise from entering the system. The switch is located on the front panel. When the switch is engaged, (the switch is in the “” position), a 100 Hz low-cut filter is inserted into the USB and analog output signal paths.

## Set the Signal Busing

Each microphone signal can be bused to the left and right channels of the output signal, the right channel of the output signal, or the left channel of the output signal. An input's busing is selected with a switch located on the front panel.

- L assigns the signal to the left bus.
- R assigns the signal to the right bus.
- + assigns the signal to the left and right buses equally.

In a left-right sound system, use the L or R settings to source identify audio to the side of the table where the presenter is located. This configuration presents the audio at the far end with left or right panning to match the presenter's location. The near end and the far end systems must be configured for left or right operation. If the system is a single, mono audio playback channel, or left-right panning is not desired, use the + bus assignment.

## DO Learn More

Visit the website for additional information and the latest firmware updates. To learn more about this product, use a QR reader application on your mobile device to scan the QR image.

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As of the date of manufacture, the product has been tested and found to comply with specifications for CE marking.



This product is Listed to applicable UL® Standards and requirements tested by Underwriters Laboratories Inc. Ce produit est homologué selon les normes et les exigences UL applicables par Underwriters Laboratories Inc.

### Federal Communications Commission (FCC) Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**CAUTION:** Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### Industry Canada (IC) Compliance Statement

CAN ICES-3(A)/NMB-3(A)

The specific patents that cover Crestron products are listed at [patents.crestron.com](http://patents.crestron.com).

The product warranty can be found at [www.crestron.com/warranty](http://www.crestron.com/warranty).

Certain Crestron products contain open source software. For specific information, please visit [www.crestron.com/opensource](http://www.crestron.com/opensource).

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