

# MMX-6-USB

## 6-Channel USB Microphone Mixer

- > Professional 6-channel stereo microphone mixer
- > USB 2.0 output
- > Balanced analog stereo line-level output
- > Individually selectable 48 Volt phantom power per input channel
- > Individually assignable output bus routing per input channel
- > Selectable 100 Hz low-cut output filter
- > Bi-color signal/clip LED indicator per input and master output
- > Screwdriver-adjustable controls
- > Compact, stackable "IFE medium" form factor
- > Surface or DIN rail mountable using bracket provided
- > Available rack mount option (sold separately)
- > External 100-240V universal power pack included



The MMX-6-USB is a compact and cost-efficient stereo microphone mixer, designed to allow up to six dynamic or condenser microphones to be connected to a [Crestron RL<sup>®</sup> 2](#) system, [CaptureLiveHD<sup>®</sup>](#) system, or any other audio system. Its unique housing design allows for installation virtually anywhere, including under a table, on a wall, or in an equipment rack. Used with the Crestron RL 2 System Codec ([CCS-UC-CODEC-200](#)), the MMX-6-USB easily accommodates individual table microphones, as well as microphones with multiple elements like the Shure<sup>®</sup> MX396/C. It can also be used as a microphone preamp for devices like the Capture HD<sup>®</sup> High-Definition Capture Recorder ([CAPTURE-HD](#)), which does not have a mic preamp on board.

### Professional Features

To ensure compatibility with a full range of microphone types, the MMX-6-USB features individually selectable 48 Volt phantom power on each of its six inputs. Each input offers a 90 dB adjustment range, with up to 60 dB of gain available. Any input may be assigned to either or both channels of the mixer's stereo output. A low-cut filter is also provided at the output to reduce low-frequency rumble noise if required. Input and output indicators provide clear indication of signal presence and clipping for easy setup. All controls on the MMX-6-USB are screwdriver adjustable to prevent accidental changes to the settings once the unit is installed and set up.

### USB and Analog Outputs

With both USB 2.0 and analog line-level outputs, the MMX-6-USB works with a wide range of devices and applications. Its USB output allows for direct connection to the Crestron RL 2 codec, as well as to a Mac<sup>®</sup> or Windows<sup>®</sup> PC. The balanced analog output allows for connection to a stereo or mono line-level input on any conventional audio device. The USB and analog outputs contain the same audio signal and may be used simultaneously.

### Integrator Friendly Enclosure

The MMX-6-USB features the Crestron IFE form factor, a compact "Integrator Friendly Enclosure" design that fits almost anywhere and enables a variety of installation options. Its shape allows multiple mixers and other IFE compliant devices to be stacked together. Using the included mounting bracket, it can be fastened to any flat surface or snapped onto a standard DIN rail. A rack mount kit is also available separately.

## SPECIFICATIONS

### Audio

A-D Conversion: 16-bit 48 kHz  
Frequency Response: 20 Hz to 20 kHz,  $\pm 0.5$  dB  
S/N Ratio: 100 dB (single channel @ 0 dB level settings)  
THD+N: < -100 dB  
Crosstalk: >70 dB

### Communications

USB: USB 2.0 device for connection to a Crestron RL<sup>®</sup> 2 system codec, or a Mac<sup>®</sup> or Windows<sup>®</sup> PC

### Connectors

12VDC 0.5A: (1) 2.5 x 5.5 mm DC power connector;  
12 Volt DC power input;  
PW-1205RU power pack included

G: (1) 4-40 screw, chassis ground lug

USB: (1) USB Type Mini-B 5-Pin, female;  
USB 2.0 device port;  
15 ft (5 m) mini-B 5-pin male to A male cable included

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**AUDIO OUTPUT, L/R:** (1) 5-pin 3.5 mm detachable terminal block;  
Balanced/unbalanced stereo line-level audio output;  
Output Impedance: 200 Ohms balanced, 100 Ohms unbalanced;  
Maximum Output Level: 7.75 Vrms (+20 dBu) balanced, 3.88 Vrms (+14 dBu) unbalanced

**INPUT 1 – 6:** (6) 3-pin 3.5 mm detachable terminal blocks;  
Comprises (6) balanced microphone audio inputs;  
Input Level: 0.008 Vrms (-40 dBu) nominal, 0.775 Vrms (0 dBu) maximum;  
Input Impedance: 2k Ohms balanced, 1k Ohms unbalanced;  
Phantom Power: 48 Volts DC, selectable per channel

## Controls & Indicators

**BUS ASSIGN L/+R:** (6) screwdriver-selectable 3-position slide switches, each switch routes the corresponding input to the left (L), right (R), or both (+) output buses

**1 – 6 Level:** (6) screwdriver-adjustable rotary controls, each adjusts the signal level for the corresponding input, level adjustment range is -80 to +10 dB

**1 – 6 Signal:** (6) bi-color green/red LEDs; each indicates signal presence (green) and clipping (red) for the corresponding input

**LOW CUT:** (1) screwdriver-selectable 2-position slide switch, enables or disables the 100 Hz low-cut output filter

**MASTER Level:** (1) screwdriver-adjustable rotary control, adjusts the output signal level, level adjustment range is -80 to +10 dB

**MASTER Signal:** (1) bi-color green/red LED, indicates post-fader signal presence (green) and clipping (red), onset of red indicates a signal level -2 dB from full scale, red at full brightness indicates full scale

**PWR (rear):** (1) green LED, indicates operating power supplied via the external power pack

**PHANTOM POWER 1 – 6 (rear):** (6) screwdriver-selectable 2-position slide switches with (6) red LEDs, each switch enables or disables phantom power and each LED indicates phantom power is enabled at the corresponding input

## Power Requirements

**Power Pack:** 0.5 Amps @ 12 Volts DC;  
100-240 Volts AC, 50/60 Hz power pack, model PW-1205RU included

## Environmental

**Temperature:** 41° to 113° F (5° to 45 ° C)  
**Humidity:** 10% to 90% RH (non-condensing)

## Construction

**Enclosure:** IFE medium form factor, black and blue plastic  
**Mounting:** Freestanding, stackable, surface mount, or 35 mm DIN EN 60715 rail mount; surface/DIN rail mounting bracket included, optional rack mount kit sold separately

## Dimensions

**Height:** 1.37 in (35 mm);  
1.78 in (46 mm) with bracket  
**Width:** 7.01 in (178 mm);  
7.35 in (187 mm) with bracket  
**Depth:** 7.01 in (178 mm)

## Weight

1.2 lb (545 g)

## MODELS & ACCESSORIES

### Available Models

**MMX-6-USB:** 6-Channel USB Microphone Mixer

### Included Accessories

**PW-1205RU:** Wall Mount Power Pack, 12VDC, 0.5A, 2.5mm, Universal (Qty. 1 included)

### Available Accessories

**RMK-IFE-1U:** IFE Rack Mount Kit

### Notes:

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/salesreps](http://www.crestron.com/salesreps) or by calling 800-237-2041.

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

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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