

MixPre-3 II

3 Preamp, 5 Track, 32-Bit Float Audio Recorder

Specifications

Audio Inputs

- **Frequency Response**
 - 10 Hz to 80 kHz +/- 0.5 dB re 1 kHz @ 192 kHz sample rate
- **THD + Noise**
 - 0.005% max (@1 kHz, 22-22 kHz BW, gain= 20 dB, -10 dBu in)
- **ADC**
 - 32 bit precision; 142 dB dynamic range min (A weighted, gain = 10 dB, fader = 0 dB)
- **Equivalent Input Noise**
 - -130 dBV (-128 dBu) max (A-weighting, gain = 76 dB, 150 ohm source impedance)
- **Inputs**
 - Mic: XLR active-balanced; 4k input
 - Line: XLR active-balanced; 4k input
 - Aux/Mic in: 3.5 mm TRS, 2-channel unbalanced; 2.2k
 - USB Audio: 2 channels
 - 5 Total analog inputs: 3 mic-line inputs, 2 on Aux In
 - All inputs fully RF-filtered and overload protected.
- **Gain**
 - Mic input: +6 dB to +76 dB
 - Line input: -20 dB to +30 dB
 - Fader: -inf to +20 dB
 - Headphone: -inf to +20 dB
 - Total, Mic-to-recording (max): +96 dB
 - Aux In (Mic): Gain = +10 dB to +40 dB
 - Aux In (Line): Gain = -10 dB to +20 dB
 - Total Aux Gain including Fader (Mic-to-recording): +60 dB
- **Maximum Input Level**
 - Mic XLR: +14 dBu (limiters on or off)
 - Line XLR/¼-inch: +28 dBu (limiters on or off)
 - Aux In (Mic): -10 dBu
 - Aux In (Line): +10 dBu
- **Low Cut Filters**
 - 40 Hz to 160 Hz (adjustable), 18 dB/oct. First stage analog, subsequent stages digital.
- **Microphone Powering**
 - Mic XLRs: 48 V via 6.8k resistors, 10 mA each
 - Mic 3.5 mm: 3 V @ 3k source
- **Limiters**
 - Limiter at all gain stages, range > 40 dB. First stage analog, subsequent stages digital. Adjustable Threshold, Ratio, and Release.

Audio Outputs

- DAC feeding Stereo Out, Headphone Out
 - 32 bit precision; 115 dB dynamic range (A-weighted)
- **L/R Out**
 - 3.5 mm TRS stereo unbalanced, 500 ohm output impedance, +7.8 dBu max output level
- **Headphones Out**
 - 3.5 mm TRS stereo unbalanced, 300 mW + 300 mW, for use with any impedance headphones

USB

- Audio Interface (USB-C): 6-in/2-out (from computer); 44.1 kHz/48 kHz/96 kHz; 16/24/32-bit integer, 32-bit float; Class-compliant USB 2.0 high speed
- Mass Storage (USB-C): USB 2.0 high speed
- Keyboard (USB-A): Text entry and control
- Thumbdrive (USB-A): Manual or auto-copy to drive
- Midi Control Surface (USB-A)

Recording

- **Maximum Record Tracks**
 - 5 Tracks Stereo mix + 3 ISO's
- **Sampling Frequency**
 - 44.1 kHz
 - 47.952 kHz
 - 48 kHz
 - 48.048 kHz
 - 96 kHz
 - 192 kHz
- **Bit Depth**
 - 16
 - 24
 - 32 Float
- **Recording Storage**
 - Type: SD, SDXC, SDHC Card, & USB thumbdrive (copy only)
 - Max Storage Size: 512 GB (SDXC)
 - Card format: exFAT
- **File Type**
 - Polyphonic WAV

Timecode

- **Timecode Modes**
 - Free Run
 - Time of Day (file stamped w/current ToD)
 - Rec Run
 - Ext LTC (file stamped w/incoming LTC on 3.5mm Aux In)
 - Camera TC (file stamped w/incoming TC from cameras that output TC)
- **Timecode Frame Rates**
 - Auto-detects (fps):
 - 23.98 (same as 23.976)
 - 24
 - 25
 - 29.97DF
 - 29.97ND
 - 30
 - 30DF
- **3.5 mm Aux In**
 - Timecode Input
 - Timecode: 20k ohm impedance, 0.3 V - 3.0 V p-p (-17 dBu - +3 dBu)
- **3.5 mm Stereo Out**
 - Timecode Output
 - Timecode: 1k ohm impedance, 3.0 V p-p (+12 dBu)
- **HDMI**
 - TC Reader via HDMI
- **Sample/Timecode Accuracy**
 - 0.2 ppm (0.5 frames per 24 hours)

Remote Control

- Bluetooth LE: Wireless control using Wingman app
- HDMI (micro): Auto-record start/stop trigger from cameras that output record flag over HDMI
- Timecode: Auto-record start/stop trigger via Aux In timecode

File Delivery to Cloud

- Compatible with Viviana Cloud

Touch Screen

- 320x256; 1.6-inch, color, sunlight-viewable IPS LCD

Power

- AA Batteries: 4x AA sled (included); 8x AA sled (optional accessory). NIMH recommended
- From computer: Bus-powered via USB-C port; optional MX-USBY cable, connects one USB-C to two USB-A ports
- L-Mount: Optional sled for 2x (hot-swappable) Li-ion batteries
- From computer: Bus-powered via USB-C port
- AC Adapter: MX-PSU (included) Power supply wall adapter w/ USB-C connector; 15 W; has 4 adapter plugs for US, UK, AU & Europe

Environmental

- Operating: -20°C to 60°C, 0 to 90% relative humidity; (non-condensing)
- Storage: -40°C to 85°C

Dimensions (H x W x D)

- 3.6 cm x 14.4 cm x 11.0 cm
- 1.40" x 5.68" x 4.35"

Weight

- 0.48 kg (unpackaged, without batteries)
- 16.8 oz (unpackaged, without batteries)