SOUND DEVICES

Sound Devices

MixPre II Series

MixPre-3 II

Technical Datasheet

Audio Inputs

- Frequency Response: 10 Hz to 80 kHz +/- 0.5 dB re 1 kHz @ 192 kHz sample rate
- THD + Noise: 0.005% max (@1kHz, 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
- Line: ¼-inch TRS active-balanced; 4k input
- 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, +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): 5-in/2-out; 44.1 to 96 kHz; 16/24/32-bit integer, 32-bit float; Class-compliant USB 2.0 high speed driver
- 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 ISOs

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 Types

- 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

- 320×256; 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
- AC Adapter: MX-PSU (included) Power supply wall adapter w/ USB-C connector; 15W; has 4 adapter plugs for US, UK, AU & Europe
- L-Mount: Optional sled for 2x (hot-swappable) Li-ion batteries

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)