

833

Portable Compact Mixer-Recorder



Specifications

Analog Inputs
<ul style="list-style-type: none">Frequency Response<ul style="list-style-type: none">10 Hz to 80 kHz ± 0.5 dB (192 kHz sample rate, re 1 kHz)THD + Noise<ul style="list-style-type: none">0.005% max (mic in, 1 kHz, 22 Hz~22 kHz BW, trim at 20, fader at 0, -10 dBu in)Equivalent Input Noise<ul style="list-style-type: none">-131 dBV (-129 dBu) max (mic in, A-weighting, 76 dB gain, 150 ohm source impedance)
Processing Engine
<ul style="list-style-type: none">Highly extensible, full FPGA-based audio processing, 3 FPGAsSix-way ARM multiprocessor system64-bit audio processing precision
Inputs
<ul style="list-style-type: none">Mic/Line inputs<ul style="list-style-type: none">6 total, all fully featured; 3 on full-size XLR, 3 on TA3Inputs<ul style="list-style-type: none">Mic-level inputs: (XLR, TA3): Class-A, discrete differential long-tail pair, 4k ohm input impedanceLine-level inputs: (XLR, TA3.): active-balanced, 4k ohm input impedance48 V phantom: full 10 mA to all 6 inputs simultaneously8 Total analog inputs: 6 mic-line inputs, 2 on returnsAES3 or AES42 available on XLR input 1AES42: +10 V, 250 mA available, mode-1, auto-ASRCUSB Audio: 2 InputsAux (3.5 mm): unbalanced 2-channel, 4k ohm input impedanceCom Rtn (TA3, 3.5 mm) balanced, 1-channel, 8k ohm input impedanceExternal Slate Mic (TA5): balanced, 8k ohm input impedance, menu-selectable 12 V phantomMaximum Input Level<ul style="list-style-type: none">Mic: +8 dBu (2.0 Vrms)Line: +28 dBu (19.5 Vrms)Aux: +18 dBu (6.2 Vrms)Com Rtn: +24 dBu (12.3 Vrms)External Slate Mic: +12 dBu (3.2 Vrms)
Buses
<ul style="list-style-type: none">6 Buses (L, R, 1-4)Left and Right Mix Bus receives post-fade isolated channels. Optional NoiseAssist plugin instances can be applied to any bus. Buses 1-4 can receive pre-fade, post-fade, or independent send level from isolated channels, Return, and Com Return.
High-Pass Filters
<ul style="list-style-type: none">Adjustable 10 Hz to 320 Hz, 18 dB/oct. 1st stage analog (before preamp), 2nd stage digital.
Limiters
<ul style="list-style-type: none">Limiters available at all channels, buses, headphones, for all sample ratesAnalog first stage, all subsequent stages digitalAttack time: adjustable 1 to 200 msRelease time: adjustable, 50 ms to 1000 msThreshold: adjustable, -2 dBFS to -12 dBFSSelectable ratio: inf:1, 20:1, 18:1, 16:1, 14:1, 12:1, 10:1Knee: soft, hard
Compressors
<ul style="list-style-type: none">Compressors available at all channels (pre or post-fade) and buses for all sample ratesAttack time: adjustable, 1 to 200 msRelease time: adjustable, 50 ms to 1000 msThreshold: adjustable, 0 dBFS to -40 dBFSSelectable ratio: adjustable, 1:1 to 20:1Knee: soft, hard
Delay
<ul style="list-style-type: none">Channel Adjustable 0-50 msOutput Adjustable 0-500 ms
Maximum Gain
<ul style="list-style-type: none">Trim stage (mic input): 76 dBTrim stage (line input): 50 dBFader stage: 16 dBBus stage: 16 dBHeadphone stage: 20 dBMic-to-Line: 108 dBMic-to-Headphone: 112 dBTA5 (along with mic input pins) for single connection to headset + mic High output, 4 ohm output impedance, 400 mW + 400 mW at each connector, all individually driven Compatible with headphones of any impedance
Outputs
<ul style="list-style-type: none">Outputs<ul style="list-style-type: none">XLR (L, R) active-balanced, 250/3.2k/120 ohms (mic/-10/line)TA3 (X1/X2) active-balanced, 250/3.2k/120 ohms (mic/-10/line)3.5 mm (X3/X4): unbalanced, stereo, 1.8k ohmsMaximum Output Level (all into 10k load)<ul style="list-style-type: none">Line: +20 dBu (7.8 Vrms)"-10": +6 dBu (1.5 Vrms)Mic: -20 dBu (0.078 Vrms)X3/X4 Out: +6 dBu (1.5 Vrms)Headphone outputs (¼", TA-5): +14 dBu (4.0 Vrms)Digital Outputs<ul style="list-style-type: none">AES3 transformer-balanced, in pairs; 1-2 (XLR-L), 3-4 (XLR-R), 110 ohm, 2 V p-p, AES and S/PDIF compatible
Headphone Outputs
<ul style="list-style-type: none">¼", 3.5 mmTA5 (along with mic input pins) for single connection to headset + micHigh output, 4 ohm output impedance, 400 mW + 400 mW at each connector, all individually drivenCompatible with headphones of any impedance
Recording
<ul style="list-style-type: none">A/D converters 32-bit, 120 dB, A-weighted dynamic range typicalA/D converters Sampling rates 44.1 kHz, 47.952 kHz, 48 kHz, 48.048 kHz, 96 kHz, 192 kHzBit Depth<ul style="list-style-type: none">16, 24Recording<ul style="list-style-type: none">Internal 256 GB SSD; two removable SD Cards, 10% over-provisioned for optimum performanceSimultaneous recording to internal SSD and the two SD cardsexFAT formatting12 tracks (8 iso channels, 4 buses)Broadcast WAV monophonic and polyphonic file format64-bit WAV (RF64) monophonic and polyphonic; support for files > 4 GAAC 2 track at 48 kHz, selectable bit rate 32, 64, 128, 192, 256 kbps
Automatic Mixing
<ul style="list-style-type: none">Dugan Automixer up to 8 channels on Left and Right Mix busMixAssist up to 8-channels on Left and Right Mix bus
Noise Suppression
<ul style="list-style-type: none">Via optional paid Sound Devices NoiseAssist or CEDAR sdnx PluginsTwo, four, or eight instances of Noise Suppression can run on any combination of isolated channels (excluding 17-32 on Scorpio), or buses.Attenuation range: 0-20 dBNoiseAssist operates with sampling rates of 44.1 kHz to 48,048 kHz.CEDAR sdnx operates with sampling rates of 44.1 kHz to 96 kHz.NoiseAssist audio path latency: 0.77 ms @ 48kHzCEDAR sdnx audio path latency: 0.27 ms @ 48kHz, 0.14ms @ 96kHz
USB
<ul style="list-style-type: none">USB-C (USB 3.1 type 1) for file transfer of internal SSD, both SD Cards.USB-C 2-in/2-out USB audio interfaceHUSB-A host for keyboard, external controller, external USB hubs supported for connecting multiple devices.
Timecode and Sync
<ul style="list-style-type: none">Modes Supported: Off, Rec Run, Free Run, 24h Run, External, including External Auto-Record and Continuous modes.Frame Rates: 23.98*, 24, 25, 29.97 DF, 29.97 ND, 30 DF, 30 NDSample/Timecode Accuracy: 0.1 ppm (0.25 frames per 24 hours)Timecode Input: 20k ohm impedance, 0.3 V – 3.0 V p-p (–17 dBu – +3 dBu)Timecode Output: 75 ohm impedance, 5 V p-p (+7 dBu)Word Clock Input: 10k/75 ohm selectable impedance, 1-5 V p-p input sensitivityWord Clock Output: 75 ohm impedance, 5 V p-p output, at SR
Remote Control
<ul style="list-style-type: none">Sound Devices CL-12 Linear Fader ControllerUSB MIDI MCU Control – supported 3rd party fader controllersSD-Remote Android Tablet app via USB or Bluetooth LESD-Remote Android Phone app via Bluetooth LESD-Remote iPad and iPhone app via Bluetooth LEUSB KeyboardExternal Timecode Record Trigger
File Delivery to Cloud
<ul style="list-style-type: none">Compatible with Viviana Cloud
LCD
<ul style="list-style-type: none">320×240, Transflective, excellent sunlight visibilityLarger touchscreen display available via USB-connected SD-Remote app
Power
<ul style="list-style-type: none">External: 10-18 V input on locking TA4 connector, (pin 4 positive, pin 1 ground), supports Smart Battery telemetryDual rear-mount Sony-style L-mount batteries with chargersCurrent Draw, at 12 V no battery charging<ul style="list-style-type: none">All mic preamps off: 730 mAAll mic preamps on: 920 mAAll mic preamps on, 192 kHz sample rate, recording to internal SSD and 2 SD Cards: 1.07 AIntelligent power-down of unused mic preamps and other internal circuits
Environmental
<ul style="list-style-type: none">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)
<ul style="list-style-type: none">5.1 cm x 22 cm x 17 cm;2.0 in. x 8.7 in. x 6.6 in
Weight
<ul style="list-style-type: none">2.75 lbs (unpackaged, without batteries)1.25 kg (unpackaged, without batteries)