



Dante™

SCORPIO

PREMIUM PORTABLE MIXER-RECORDER

Scorpio is a 32 channel, 36 track mixer-recorder and the most powerful product ever designed by Sound Devices. With 16 mic/line preamplifiers, 32 channels of Dante in and out, AES in and out, 12 analog outputs and multiple headphone outputs, Scorpio is well-suited for any production scenario. Featuring a fully-customizable routing matrix, ultra-low noise preamplifiers, multiple powering options, a premium-quality build equally useable over-the-shoulder or in a mobile rig, high-powered processing, and an internal SSD with two SD card slots, Scorpio is the ideal tool for a new era of production sound.



Front Panel



Left Panel



Right Panel

16 ultra low-noise, Scorpio microphone preamplifiers | 32 channels, 12 buses, 36 tracks
 32 channels of Dante I/O | 256 GB internal SSD, 2 SD card slots | USB control surface support via MCU

SOUND DEVICES

Scorpio Accessories

SL-6

- 6 channel wireless receiver attachment
- Enhances wireless control
- Unifies power and antenna distribution
- Simplifies interconnection

SL-Riser

- Mounted riser required for SL-6 connection

XL-NPTA4

- NP-1 Battery Cup to TA4 female with 25" cable

XL-SmartBattery

- 14.4 V Smart Battery Li-ion 6.8 Ah, 98 Wh.

XL-SmartCharger

- Inspired Energy dual charger for XL-SmartBattery

XL-SmartCup

- XL-SmartBattery Cup to TA4 female with 25" cable

SD-Remote

SD-Remote

- Companion Android application
- Large metering and timecode display
- Transport control
- Metadata editing

XL-TA5XF2

- TA5 female to (2) XLR-Female 25" cable (2 pack)

XL-WPTA4

- Universal 60 W in-line AC to DC Power Supply with TA4 DC Plug with detachable IEC power cord 100-240 V, 50-60 Hz (Included with Scorpio)

USB Control Surface

- Supports select third party controllers via MCU open protocol
- iCON Platform M+ with D2 Display supported in v1.00

Scorpio Specifications

Freq. Response	• 10 Hz to 80 kHz \pm 0.5 dB (192 kHz sample rate, re 1 kHz)	Maximum Output Level (all into 10k load)	• Line: +20 dBu (7.8 Vrms) • "-10": +6 dBu (1.5 Vrms) • Mic: -20 dBu (0.078 Vrms) • X7/X8 Out: +6 dBu (1.5 Vrms) • Headphone outputs (1/4", TA-5, X9/X10): +14 dBu (4.0 Vrms)
THD + Noise	• 0.005% max (1 kHz, 22 Hz-22 kHz BW, trim @20, fader @ 0, -10 dBu in)	A/D converters	• 32-bit, 120 dB, A-weighted dynamic range typical • Sampling rates 44.1 kHz, 47.952 kHz, 48 kHz, 48.048 kHz, 88.2 kHz, 96 kHz, 192 kHz
Equivalent Input Noise	• -131 dBV (-129 dBu) max (A-weighting, 76 dB gain, 150 ohm source impedance)	Digital Outputs	• AES3 transformer-balanced, in pairs; 1-2 (XLR-L), 3-4 (XLR-R), 5-8 (Hirose 10-pin A) • 110 ohm, 2 V p-p, AES and S/PDIF compatible
Processing Engine	• Highly extensible, full FPGA-based audio processing, 3 FPGAs • Six-way ARM multiprocessor system • 64-bit audio processing precision	Recording	• Internal 256 GB SSD • Two removable SD Cards • Simultaneous recording to internal SSD and the two SD cards • exFAT formatting • 36 tracks (32 iso channels, 4 buses) • Broadcast WAV monophonic and polyphonic file format • 64-bit WAV (RF64) monophonic and polyphonic; support for files > 4 GB
Audio Over Ethernet	• Dante, 32 channels in, 32 channels out • AES67 compatible • 1 Gb/s Ethernet, 2 ports, transformer-balanced	USB	• USB-C (USB 3.1 type 1) for file transfer of internal SSD, both SD Cards • USB-A host for keyboard, external controller, external USB hubs supported for connecting multiple devices
Inputs	• Mic/Line inputs: 16 total, all fully featured; 6 on full-size XLR, 2 on TA3, 8 on TA5 • Mic-level inputs (XLR, TA3, TA5): Class-A, discrete differential long-tail pair, 4k ohm input impedance • Line-level inputs (XLR, TA3, TA5): active-balanced, 4k ohm input impedance • AES3 or AES42 available on XLR inputs 1 and 6 • AES42: +10 V, 250 mA available, type-1, auto-ASRC • Rtn A, B, C (3.5 mm/10-pin): unbalanced 2-channel, 4k ohm input impedance • Com Rtn 1,2 (TA3, 3.5mm) balanced, 1-channel, 8k ohm input impedance • External Slate Mic (TA5): balanced, 8k ohm input impedance, menu-selectable 12 V phantom	Wireless	• Built-in Bluetooth v5.0 BLE (not supported with rev 1.0 release of SD-Remote)
Maximum Input Level	• Mic: +8 dBu (2.0 Vrms) • Line: +28 dBu (19.5 Vrms) • Rtn A, B, C: +18 dBu (6.2 Vrms) • Com Rtn 1, 2: +24 dBu (12.3 Vrms) • External Slate Mic: +12 dBu (3.2 Vrms)	Timecode and Sync	• 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 ND • Sample/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 (+12 dBu) • Word Clock Input: 10k/75 ohm selectable impedance, 1.5 V p-p input sensitivity • Word Clock Output: 75 ohm impedance, 5 V p-p output, at SR
High-Pass Filters	• Adjustable 40 Hz to 320 Hz, 18 dB/oct. 1st stage analog (before preamp), 2nd stage digital	Remote Control	• USB MIDI Control - 3rd party fader controllers • SD-Remote Android app • USB Keyboard • External Timecode Record Trigger
Limiters	• Limiters available at all channels, buses, headphones, for all sample rates • Analog first stage, all subsequent stages digital • Attack time: 1 ms • Release time: adjustable, 50 ms to 1000 ms • Threshold: adjustable, -2 dBFS to -12 dBFS • Selectable knee: hard or soft • Selectable ratio: inf:1, 20:1	LCD	• 320x240, Transflective, excellent sunlight visibility • Larger touchscreen display available via USB-connected SD-Remote app
Delay	• Channel Adjustable 0-50 ms • Output Adjustable 0-500 ms	Power	• External: dual 10-18 V inputs on locking TA4 connectors, pin-4 = (+), pin-1 = (-) • Dual rear-mount Sony-style L-mount batteries with chargers • Idle Current Draw: 875 mA @ 12 V (10.5 W) • Intelligent power-down of unused mic preamps and other internal circuits
Maximum Gain	• Trim stage (mic input): 76 dB • Trim stage (line input): 36 dB • Fader stage: 16 dB • Bus stage: 16 dB • Headphone stage: 20 dB • Mic-to-Line: 108 dB • Mic-to-Headphone: 112 dB	Environmental	• Operating: -20 ° C to 60 ° C, 0 to 90% relative humidity (non-condensing) • Storage: -40 ° C to 85 ° C
Outputs	• XLR (L, R) active-balanced, 250/3.2k/120 ohms (mic/-10/line) • Hirose 10-pin (L, R) active-balanced, 250/3.2k/120 ohms (mic/-10/line) • TA3 (X1-X6) active-balanced, 250/3.2k/120 ohms (mic/-10/line) • 3.5mm (X7, X8): unbalanced, stereo, 1.8k ohms	Dimensions (H x W x D)	• 5.1 cm x 32 cm x 20.5 cm (2 in x 12.6 in x 8.1 in)
Headphone Outputs	• 1/4", 3.5 mm • TA5 (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	Weight	• 5.8 lbs (2.63 kg) unpackaged, without batteries

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