The 833 is the professional’s tool for mobile and small productions. Like the popular Sound Devices 633, the 833 is small, lightweight, and compact. A tactile interface with dedicated faders, trim knobs, and PFL switches makes this mixer-recorder ideal for run-and-gun bag use.

The 833 has 6 mic/line preamplifiers, 8 channels, 12 tracks, 6 analog outputs, and ultra-accurate timecode. Many features have carried over from the premium Sound Devices’ Scorpio, such as Sound Devices’ new preamplifier design, 2 SD card slots, dual L-Mount battery charging and powering, and an internal 256 GB SSD.

Additionally, the 833 shares the same processing architecture and multiple FPGAs as the Scorpio. This enables the 833 to be fully routable, and any physical input can be routed to any track. The 833 features both digital and analog inputs and outputs, and has multiple powering options, so it will fit effortlessly into your existing kit.

A built-in three band EQ may be set to either pre- or post-fade for each channel to tackle any problems directly on-set. Enable Dugan Automixing to automatically attenuate unused microphones in multi-microphone applications. Up to 8 channels can be automixed at a time, and two separate groups can be mixed simultaneously.

Dedicated coms and slate allows for professional bi-directional communication with other crew members. Send customized mixes to the camera or crew with multiple mix buses. With the ability to record to three media simultaneously, you can turn over SD cards to production at the end of the day while keeping a backup on the internal 256 GB SSD.

The 833 may be controlled via the companion Android app, SD-Remote, which features transport controls, metering, and sound reports. For an instant mobile workstation, choose from one of several supported USB control surfaces for remote fader and transport control.
833 Accessories

**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 connector cable

**XL-B2**
- L-Mount Li-Ion V, 5200 mAh battery

**XL-B3**
- L-Mount Li-Ion V, 7800 mAh battery

**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 833)

833 Specifications

### Freq. Response
- 10 Hz to 80 kHz ± 0.5 dB (192 kHz sample rate, re 1 kHz)

### THD + Noise
- 0.005% max (1 kHz, 22 Hz–22 kHz BW, trim @20, fader @ 0, -10 dBu in)

### Equivalent Input Noise level
- -113 dBV (-129 dBu) max
  - (A-weighting, 70 dB gain, 150 ohm source impedance)

### Processing Engine
- Highly extensible, full FPGA-based audio processing, 3 FPGAs
- Six-way ARM multiprocessor system
- 64-bit audio processing precision

### Inputs
- Mic/Line inputs 6 total, all fully featured; 3 on full-size XLR, 3 on TA3
- Mic-level inputs: (XLR, TA3); Class-A, discrete differential long-tail pair, 4x ohm input impedance
- Line-level inputs: (XLR, TA3); active-balanced, 4x ohm input impedance
- 48V phantom: full 10mA to all 6 inputs simultaneously
- AES3 or AES42 available on XLR input
- AES42: +10 V, 250 mA available, mode-1, auto-ASRC
- Aux (3.5 mm/10-pin): unbalanced 2-channel, 4x ohm input impedance
- Com Rtn (TA3, 3.5mm balanced), 1-channel, 8x ohm input impedance
- External Slate Mic (TA5); balanced, 8x ohm input impedance, menu-selectable 12 V phantom

### 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)

### High-Pass Filters
- Adjustable 10 Hz to 320 Hz, 18 dB/oct. 1st stage analog (before preamp), 2nd stage digital.

### Limiters
- Limiters available at all channels, buses, head phones, 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 ratio: inf-1, 20-1, 18-1, 16-1, 14-1, 12-1, 10-1

### Delay
- Channel Adjustable 0-50 ms
- Output Adjustable 0-500 ms

### Maximum Gain
- Trim stage (mic input): 76 dB
- Trim stage (line input): 50 dB
- Fader stage: 16 dB
- Bus stage: 16 dB
- Headphone stage: 20 dB
- Mic-to-Line: 108 dB
- Mic-to-Headphone: 112 dB

### Outputs
- XLR (L, R) active-balanced, 250/3.2k/120 ohms (mic/-10/line)
- TA3 (XLR) active-balanced, 250/3.2k/120 ohms (mic/-10/line)
- 3.5mm (X3/X4): unbalanced, stereo, 1.8k ohms

### Headphone Outputs
- ¼”, 3.5 mm
- TA5 (along with mic input pins) for single connection to headset + mic
- High output, 4x ohm output impedance, 400 mV + 400 mV at each connector, all individually driven
- Compatible with headphones of any impedance

### USB Control Surface
- Supports select third party controllers via MCU open protocol
- ICON Platform M+ with D2 Display supported in v1.00

**SAM-32SD**
- Approved 32 GB SD media card
- 90 MB/s read and write speeds (620x)

### SD-Remote
**SD-Remote**
- Companion Android application
- Large metering and timecode display
- Configure and email Sound Reports
- Transport control
- Metadata editing

### USB Compatibility
- Compatible with any USB device
- 2.0 USB-compliant, support for all USB device types

### Power
- 10.8 V Input on locking TA4 connectors, pin-4 = (+), pin-1 = (-)
- Dual rear-mount Sony-style L-mount batteries with chargers
- Internal Power Down of unused mic preamps and other internal circuits

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

### Dimensions
- 5.1 cm x 22 cm x 17 cm; (2.0 in. x 8.7 in. x 6. in)

### Weight
- 2.75 lbs (unpacked, without batteries) 1.25 kg (unpacked, without batteries)

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