

788T

SOUND  DEVICES

Portable, Eight-Track Audio Recorder with Time Code

8-TRACK FIREWIRE COMPACTFLASH INTERNAL HARD DRIVE TIME CODE



Description

The 788T is a powerful eight input, eight-track digital audio recorder designed for production sound. Building on the success of the proven 7-Series architecture, the 788T offers greatly expanded input and output connectivity while continuing the 7-Series heritage of extensive control in a compact package. Its eight full-featured inputs ensure superb audio quality. They accept either microphone or line-level signals, provide 48 V phantom power for condenser microphones, offer peak limiters for microphone inputs, and fully adjustable high-pass filters. Extensive routing flexibility allows each input to be routed to mixed tracks or to isolated tracks.

The 788T has three options for recording media, internal 160 GB SATA hard drive, CompactFlash media with UDMA support, or an external FireWire hard drive or

788T Key Features

- Eight recording tracks
- Eight mic/line inputs, each controlled with front panel, pop-out gain controls
- Each input has solo monitoring, 48 V phantom, limiter, polarity reverse, high-pass, adjustable delay, selectable pan
- 8 x 2 mix assignment
- Backlit LCD display viewable in any environment
- 8 x 13-segment Peak/VU meters with arm LED
- Word clock in and out with video sync support
- Full +24 dBu analog line-level outputs
- Time code generator supports all data rates; internal Li-ion battery holds time code for six hours with no attached power
- Internal 160 GB, 2.5-inch SATA hard drive
- CompactFlash slot with ultra-high-speed UDMA support
- Powered by removable Li-ion rechargeable battery.
- FireWire 400/800 and USB 2.0 for ultra-fast connection of CF and HDD to computer
- External DC power input operates unit and charges Li-ion battery
- USB keyboard input for control

DVD-RAM (with bus powering). Any or all of these can be used simultaneously. Additionally, when connected to Mac OS, or Windows computers with high-speed USB or FireWire

400/800, the 788T functions as a high-speed mass storage device.

Description continued on next page

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Discover more about Sound Devices products at www.sounddevices.com



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[Back Panel]



[Right Panel]



[Left Panel]

Specifications

Analog Inputs:

- Eight balanced mic/line inputs using Sound Devices high-performance microphone preamps, 4 x XLR, 4 x TA3 connectors;
- Selectable 48 V phantom, adjustable high-pass, peak limiters, polarity

Digital Inputs:

- AES3 inputs on DB-15 multi-pin connection on back panel
- AES word clock can be set from any pair of inputs

Outputs:

- Four-channel balanced line level outputs on TA3 connectors
- Two-channel unbalanced line level outputs on 3.5-mm connector
- Four channel AES3 balanced output (1–4) on TA3
- Two channel AES3 balanced output (5–6) on multi-pin
- Outputs assigned source from inputs or tracks
- Headphone output on 3.5-mm and 1/4-inch jack with level control
- Headphone source selection for monitoring any input or track

Display/Metering/Control:

- Sunlight-viewable LED level metering with brightness control
- PPM, VU or combination PPM/VU level metering
- Front panel, multi-color backlit LCD viewable in all lighting conditions
- LED, signal present, peak, and limiting indication per channel

Data Storage

- Internal hard drive, SATA interface, FAT32 volume, 160 GB, 5400 RPM
- CF (CompactFlash) slot (type I, II, and micro drive compatible) with UDMA support for removable secondary recording medium
- External FireWire volume with bus powering, FAT32-formatted, including hard drives and DVD-RAM drives
- Recording to HD, CF, external FireWire drives, or any combination

- File transfer between all available storage volumes
- Record buffer (pre-roll), 10 seconds at 24/48 x 8

File Formats:

- Selectable track arming of 1 through 8 channels
- Broadcast Wave format (.WAV), mono or poly files, uncompressed PCM audio
- 24-bit or 16-bit (with or without dither)
- Sampling rate selection of 32, 44.1, 47.952, 48, 48.048 kHz
- MP3 file playback of 64, 128, 192, 256, or 320 kb/s, stereo file

External Data Interface/Transfer/Control:

- 1394a (FireWire 400), 1394b (FireWire800), and USB 2.0 ports for high-speed data transfer to computers and external drive connectivity
- Internal drive and CF, appear as separate mass storage volumes
- Mac OS 10.3+, Windows XP/Vista, and Linux compatible
- USB keyboard port for direct connection of keyboards for control and file naming
- Firmware upgradeable via downloads from Sound Devices website

Timecode/Word Clock:

- Ultra-stable crystal clock generator, tuneable to <0.2 ppm accuracy
- Broadcast Wave and iXML metadata embedded into the WAV files
- User bit assignment and selection in setup menu
- TC rates of 23.976, 24, 25, 29.97DF, 29.97, 30, 30DF
- Word clock input and output, with tri-level video sync input

Powering:

- Battery powering using removable rechargeable Li-ion cells
- Compatible with Sony L mount camcorder batteries
- 10–18 VDC external input powers and charges on-board battery
- Internal and external voltage displayed on LCD panel

Mechanical Construction:

- Class-defining compact size
- 1.65" x 10.0" x 6.25"—without connectors
- 3.75 lbs (1.7 kg) excluding battery
- Aluminum & stainless steel chassis for exceptional durability and low weight
- Splash-resistant front panel
- Tested for the same environmental extremes as Sound Devices field mixers

Description Continued

To simplify interconnection with mixers and cameras with AES3 connectivity, the 788T has eight channels of balanced AES3 digital input and six channels of balanced AES3 output. The 788T can be clocked from external word clock or from video sync.

The 788T has a high-accuracy time code reader/generator on board. It includes auto-record features to chase external rec-run video sources. To simplify metadata entry the 788T directly accepts USB keyboards. Keyboard shortcuts can be programmed to control menu items and machine transport.

The extensive power of the 788T simplifies any production sound setup.