

SOUND  DEVICES

# 744T

## Portable, High-Resolution Audio Recorder



product shown actual size 1:1

The high-resolution 744T audio recorder shatters the size, performance, and feature-sets of previous generations of audio recorders. It is the essential replacement for tape-based digital and analog recorders—replacing them with a far more powerful file-based digital recording device. The four-track 744T records and plays at either 24 or 16 bit, with all professional sample rates from 32 kHz to 192 kHz, including pull-up sample rates.

Writing to either of two mediums, its internal 40 GB hard drive or to Compact Flash, the 744T writes industry-standard mono or polyphonic WAV and BWF audio files. In addition, MP3 format files can be written and played.

The 744T implements a no-compromise audio path that includes Sound Devices next generation microphone preamplifiers. Designed specifically for high-bandwidth, high bit-rate digital medium, these preamps and analog-to-digital converter circuitry set a new standard for linearity, distortion performance, and low noise.

With the documentary and ENG mixing engineer in mind, we kept the 744T very small, while still being feature-rich. While the 744T is a very capable recorder alone, it really shines when used in conjunction with an outboard mixer, such as Sound Devices own 442 or 302 field mixers.

The 744T control surface is uncluttered and the 120 sunlight-viewable LEDs provide a wealth of information at a glance. Access to extensive setup menu is fast and easy. The learning curve is short—powerful, yet accessible.

Full time code capability makes the 744T the perfect complement in both over-the-shoulder and cart-based audio-for-picture production. It can be used as master clock or slaved from external time code devices.

The unit operates from Sony-compatible L- or M-type Lithium Ion camcorder batteries or external DC. The 744T easily interconnects with Windows and Mac OS computers for audio data transfer and backup.

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# 744T

Portable Audio Recorder



Back Panel



Analog Panel



Digital Panel

## Key Features

### Inputs

- Two-channel balanced mic/line inputs using Sound Devices next generation microphone preamps
- Analog inputs 1 and 2 mic/line switchable on XLR connectors
- 48 V phantom, adjustable high-pass filters and peak limiters on mic inputs
- Channel 3 and 4 line-level only inputs on TA3 connectors
- Line level input adjustment in 0.1 dB increments
- AES input, channels 1 and 2 on XLR
- AES input channels 3 and 4 on XLR
- AES3id (S/PDIF) input channels 1 and 2 on BNC
- AES3id (S/PDIF) input channels 3 and 4 on BNC

### Outputs

- AES3id (S/PDIF) output L/R (1) on BNC
- AES3id (S/PDIF) output L/R (2) on BNC
- Two-channel, balanced mic/line level outputs on TA3 connectors
- Outputs assigned signal source from inputs, tracks, or post-record tracks
- Headphone output on 3.5-mm jack with level control
- Headphone source selection for monitoring any input or track

### Display/Metering/Control

- Sunlight-viewable LED level metering, selectable among multiple sources
- Front panel, back lit LCD viewable in all lighting conditions
- Extended temperature range LCD display
- PPM, VU or combination PPM/VU level metering
- LED peak indication per channel

### Data Storage

- Internal hard drive, ATA interface, FAT32 volume
- 2.5-inch and 1.8-inch HD compatible internal drive bay
- CF slot (type I, II, and micro drive compatible) for removable secondary recording medium
- Recording to HD, CF, or mirror to both medium
- File transfer between HD and CF
- Record buffer (pre-roll), 10 seconds at 24/48 x 4

### File Formats

- Selectable track arming or 1, 2, 3, or 4 channel recording
- BWF or WAV format, mono or poly files, uncompressed PCM audio
- 24-bit or 16-bit (with or without dither)
- Sampling rate selection of 32, 44.1, 48, 48.048, 88.2, 96 kHz, 176.4, or 192 kHz
- MP3 encode and decode at 64, 128, 192, or 256, or 320 kb/s, stereo file

### External Data Interface / Transfer / Control

- 1394a (FireWire 400) port for high-speed data transfer to computers
- HD and CF medium appear as separate FAT32 volumes
- Mac, Windows, and Linux compatible
- RJ-12 serial input and output for multi-unit linking
- Firmware upgradeable via downloads

### Timecode / Word Clock

- Ultra-stable crystal clock generator, tuneable to <0.2 ppm
- Metadata TC stamp in BWF and WAV file
- User bit assignment and selection in setup menu
- TC read and generate designed by Ambient
- TC rates of 23.976, 24, 25, 29.97DF, 29.97, 30, 30DF
- Word clock input and output

### Powering

- Battery powering using removable rechargeable Lion cells
- Compatible with Sony M and L mount camcorder batteries
- 10–18 VDC external input powers and charges on-board battery
- Built-in 1A Lion battery charger
- Internal and external voltage metering on LCD panel

### Mechanical Construction

- Class-defining compact size
- 1.65" x 7.58" x 4.41" – without connectors
- 1.65" x 8.08" x 4.41" – with connectors
- 2.75 lbs (1.6 kg) with hard drive and included 1850 mAh Lion battery
- Aluminum & stainless steel chassis for exceptional durability and low weight
- Tested for the same environmental extremes as Sound Devices field mixers