24-bit Digital Portastudio 788

TASCAM

Download your imagination direct to hard disk with the ultimate digital Portastudio

The backlit LCD display provides comprehensive information

Portastudios are all about getting an idea out of your head and on to something permanent - without getting tangled in technology. The remarkable Tascam 788 allows you to download your imagination like never before: straight on to hard disk with professional-quality uncompressed 24-bit digital audio resolution!

There are 250 virtual tracks for multiple takes that can be combined into an 8-track multitrack master. Random access operation and non-destructive digital editing tools allow you to cut, copy and paste your song to your heart's delight, with 999 levels of undo/redo. Then use the 788's rear panel SCSI port to send your tune to any compatible CD burner.

Professional sound quality

The 788 creates uncompressed 24-bit digital audio and uses 24-bit digital converters. This means lower distortion, much higher headroom and dynamic range, adding up to audio quality beyond that of standard Compact Discs.

Great Digital Multieffects and Parametric EQ

You can expect a digital workstation to have great-sounding reverb for vocals and instruments. But the 788 also offers killer distortions, lush choruses, delays, pitch shifters, flangers, phasers and more. Many of the presets are designed to let you emulate your favourite guitar tones with very little tweaking required, although all of the single- and multieffects configurations are fully adjustable to your tastes. A variety of dynamics and utility effects are offered to make your recordings sound more polished, including compression, gating and de-essing.

In addition to high and low shelving EQ control, the 788 offers a true parametric midrange EQ. This critical frequency range, where most of the tones for your vocals, guitars and keyboards reside, can be minutely adjusted using independent gain, frequency and bandwidth (Q) controls.
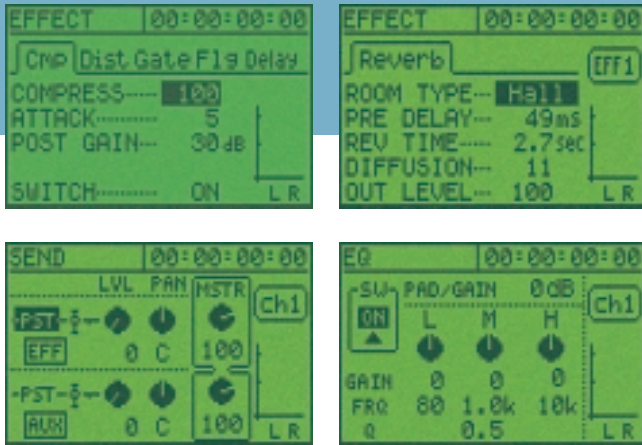
6 Versatile Inputs

Routing Inputs on the 788 are six 0.25" jacks (4 balanced for Mic/Line and 2 unbalanced for Line). One of these is designated for direct connection to guitars. Stereo outputs for mixing down, monitor outputs to send audio to your speakers and aux outputs are all included on individual connectors. Also, MIDI In and Out jacks are provided for sync'ing your audio tracks to synthesiser and software-based sequencers or other devices that use MIDI Time Code, MIDI Machine Control and MIDI Clock. A S/PDIF digital output makes it easy to send your audio to CD and DAT recorders for two-track masters.

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SCSI Port for external hard disk or direct-to-CD recording using Tascam CDR-788 CD Re-Writer

Familiar 'transport' controls and editing keys give powerful control over the 788's digital systems

The flexible and simple to use eight channel mixer

Incredibly Flexible Digital Mixer

The 788's digital mixer is extremely flexible yet easy to understand and use. Any source can be routed to any track with just a couple of button pushes, with no paging through miles of menus. Using the pre- and post-fader effects and aux sends is simple with information displayed on the easy-to-read custom backlit LCD screen.

SCSI Port for Data Storage and CD Burning

A hard disk recorder turns your audio to digital data. With the 788's SCSI port, you can back up the internal hard drive data to the media of your choice, like CD burners, external hard drives, Zip® and Jaz® drives and more. Use these to archive your song data or to exchange it with other 788 users.

8-channel main mixer with 6-channel sub mixer

- 6 analogue inputs
- 4 mono Mic/Line balanced inputs (Input D switchable to Hi-Z for direct Guitar input)
- 1 stereo unbalanced input
- Digital PAD/GAIN (pre EQ)
- 3-band parametric EQ (with Mid "Q")
- 1 stereo AUX send (switchable to internal Effect loop) and 1 stereo EFFECT send
- Channel link
- Stereo track cue monitoring
- SOLO function
- Quick Setup function for easy routing
- Stereo output
- Monitor and Phones outputs
- Stereo AUX output
- S/PDIF coaxial digital output

On-board Effects

- 2 advanced internal processors (see overleaf)

Digital Hard Disk Recorder

- 8-track, 16- or 24-bit linear recording
- Maximum 4GB recording per partition, up to 4 partitions
- 250 songs per partition
- 250 virtual tracks per song
- 3 mode Auto punch in/out recording with 99 multi-take function
- Rehearsal
- RTZ
- 3 locate points (IN/OUT/TO)
- 999 marking points per song for editing and locate
- Wave form display
- Slow Speed Audition with original key (50%, 65% or 85%)
- Non-destructive editing COPY->PASTE, COPY->INSERT, MOVE->PASTE, MOVE->INSERT, OPEN, CUT, SILENCE, CLONE TRACK, CLEAN OUT
- 999 levels of undo/redo
- Jog wheel
- Cue/Review

- ±6% pitch control (in ±0.1% steps)
- Gapless repeat function
- Recording to an external hard drive via SCSI port

Other features

- MMC
- MTC (master or slave)
- Multiple 788s can be synchronised with MTC
- MIDI tempo map
- Metronome
- Sync track
- CD-R/W back-up function and mastering functions (supports Track at once and Disc at once writing)
- CD Playback with optional CD-R/W drive
- Up to 10 scenes memory per song (mixing, routing, effect)
- Up to 128 routing memories
- Title edit function (songs, mark points, virtual tracks, scene memory, routing memory and libraries)

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highlights

4 Mic/Line Jacks, one of which is Hi-Z switchable for Guitars

The 788 is supplied with 2 x Jack-to-XLR adaptors for microphones

Stereo AUX input

Stereo Monitor output

Stereo Output

S/PDIF digital output (coaxial)

Stereo AUX output for external effects processor

MIDI IN/OUT

SCSI Port for connection to back up or recording to hard disks and CD-R/W machines eg Tascam CDR-788

Remote Port for connection to Tascam RC-30P footswitch

Specifications
Frequency response: . . . . .20Hz-20kHz ±1.0dB
Noise level: . . . . .Less than 82dBu (input 150Ω terminated)
Total harmonic distortion: . . . . .Less than 0.01% (at 1kHz)
Channel separation: . . . . .Better than 80dB (at 1kHz)

Connectors
Input A to C: . . . . .0.25" jack, balanced
   Nominal level/impedance: . . . .-50 to +4dBu/4kΩ
Input D: . . . . .0.25" jack, balanced
   Nominal level/impedance: . . . .-50 to +4dBu / 4kΩ (Mic/Line), 1MΩ (Guitar)
AUX input (stereo): . . . . .0.25" jack x 2, unbalanced
   Nominal level/impedance: . . . .-10dBV / 15kΩ
Stereo output: . . . . .RCA x 2, unbalanced
   Nominal level/impedance: . . . .-10dBV / 820Ω
Digital output/format: . . . . .Coaxial / S/PDIF
Monitor output: . . . . .RCA x 2, unbalanced
   Nominal level/impedance: . . . .-10dBV / 820Ω
AUX output (stereo): . . . . .0.25" jack x 2, unbalanced
   Nominal level/impedance: . . . .-10dBV / 820Ω
Remote (for RC-30P): . . . . .0.25" jack
MIDI Input/Output: . . . . .DIN 5-pin x 2
SCSI Port: SCSI-2, 50-pin
Headphone output: . . . . .0.25" jack, 60mWx2, 30Ω

General
Power requirements: AC120V/60Hz, AC230V/50Hz
Power consumption: 26W
Dimensions (WxHxD): . . . . .413.5 x 95.1 x 287.7mm
Weight: . . . . .3.1 kg (main unit), 1.6kg (AC Adaptor)

Two advanced built-in effects processors

EFFECT 1: [Channel multi-effect or Effect loop]
   Channel multi-effect (assignable to Input A, B,C or D; Ch 1, 2, 3, 4, 5, 6 or 7/8)
      Compressor • Gate • Distortion • Reverb • Delay • Flanger • Chorus •
      Equaliser • Exciter • De-esser • Pitch Shifter
      - Up to 5 effects can be used simultaneously
      - 19 effect preset available
   Effect loop (assignable to EFFECT send)
      Reverb • Delay • Phaser • Chorus • Flanger • Pitch Shifter • Reverb+Gate

EFFECT 2: [Channel dynamic, Stereo dynamic or Effect loop]
   Channel dynamic (assignable to tracks 1-8)
      Compressor
   Stereo dynamic (assignable to Stereo buss)
      Compressor
   Effect loop (assignable to AUX send)
      Reverb • Delay • Phaser • Chorus • Flanger • Pitch Shifter • Reverb+Gate

128 user definable preset area on each effect processor

Design and specifications subject to change without notice.

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www.tascam.com