

24-bit Digital Multitrack Recorder DA-78HR



The TASCAM DA-78HR is the first 24-bit DTRS format 8-track Modular Multitrack Recorder, designed primarily for professional recording studios, project studios and home recording studios where 24-bit high quality digital audio recording is essential. It is an evolution of the TASCAM DA-38 which, for the first time in recording history, offered project studios affordable access to a professional industry-standard recording format.

The DA-78HR is however, considerably more than a 24-bit upgrade. A major advance is on-board digital mixing of its 8 tracks to stereo with level and pan control, routed to a dedicated SPDIF I/O. An internal electronic patchbay for both inputs and outputs and an on-tape data memory for set-up information including locate points are highlights of the many operational enhancements. The DA-78HR is backward compatible with all existing DTRS recordings to integrate seamlessly into existing installations.

The DA-78HR provides the best and the certainly the most cost-effective solution for 24-bit digital audio recording. Designed to take digital multitrack recording into the next millennium, the DA-78HR is one of the finest digital multitracks ever.

main features

Selectable 24-bit or 16-bit recording format 24-bit, 128 times over-sampling Delta/Sigma ADC and DAC Synchronisation for up to 16 DTRS machines (including 16-bit models) On-board stereo mixdown function Advanced internal electronic patchbay Digital direct-track copying within a unit or between 2 units

Auto Punch-I/O with 0.1 frame accuracy Seamless punch I/O with digital cross-fade On tape-data memory for set-up information Shuttle wheel for fast, frame-accurate search Machine offset to sub-frame or sample rate accuracy

Track delay function ± 6% pitch control Level meter with adjustable peak-hold and release time

Built-in digital tone oscillator 44.1/48 kHz sampling frequency A/B head playback error-rate display function Maximum recording time: 108 minutes with NTSC standard 120 tapes/113 minutes with PAL/SECAM standard 90 tapes - in 24-bit and 16-bit Time-code I/O with on-board SMPTE synchroniser

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Recording format	.DTRS/DTRS-HR format, 4-rotary head digital recorder
Tape	Hi-8 ME or MP
Tracking system	
Erasure system	Overwrite
Maximum recording time	
	113 minutes with PAL/SECAM standard "90" tape
Fast winding	. 80 seconds (100 times play speed, using P6 120 tape)
Shuttle speed	
Positioning accuracy	
Number of recording channels	
Sub-code	Set-up information, ABS time and SMPTE timecode
Quantisation	
	±6% (in 0.1% steps)
Track delay (switchable sample:	or ms)200 to 7,200 samples (in 1 sample steps)
	-4 to 150ms (in 1ms Steps)
	ronisation: ±2 hours (in sub-frame or sample accuracy)
Timeo	ode synchronisation: ±12 hours (in sub-frame accuracy)

AUDIO SPECIFICATIONS	2011 - 2011 - 25
Frequency response	
Dynamic range Better than 10	14dB (1kHz, input level full-scale -60di
Signal-to-noise ratio	
Total harmonic distortion	
Channel separation	Better than 90dB (1kH
ANALOGUE INPUT/OUTPUT TERMINALS	
Analogue inputs (balanced)	
Input impedance	
Nominal input level	+4d8
Analogue inputs (unbalanced)	
Input impedance	
Nominal input level	
Analogue outputs (balanced)	
Output impedance	
Nominal output level	+4d8
Analogue outputs (unbalanced)	BC BC
Output impedance	
Nominal output level	

DIGITAL INPUT/OUTPUT AND CONTROL TERMINALS
rigital inputs/outputs
Format TDIF-1
rigital inputs/outputs
Format JEC60958 TYPE II (S/PDIF)
imecode input
Input impedance
Input level
imecode output
Output impedance
Output level
lemote sync in/sync out
Vord sync input
Vord sync outputBNC, 75Ω
Vord sync thru
emote Input
emote punch input/output
OWER SUPPLY AND OTHER SPECIFICATIONS
ower requirements
ower consumption
Veight
timensions (WxHxD)
(*152 inc. feet)

highlights

TDIF-1 digital audio interface Supports MMC

SPDIF digital audio I/O D-sub 25-pin balanced
Word Sync IN/OUT/THRU and RCA unbalanced
analogue audio I/O

MIDI IN/OUT/THRU

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Design and specifications subject to change without notice.

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