

PRELIMINARY

MTR-10 Series

Professional Two and Four Channel Production/Mastering Recorders



MTR-10-2 1/4" Two Channel Format



MTR-10-4 1/2" Four Channel Format (Convertible to 1/4", two channel)

Offered in two professional formats, 1/4" two-channel and 1/2" four-channel, Otari's MTR-10 Series have been engineered to offer the professional the most advanced features and performance from state-of-the-art electronics and mechanical design. The MTR-10 Series yield a new level of performance for audio and video post-production applications because of the following features:

- Full D.C. PLL servo tape transport operation governed by an integral microprocessor-based system
- Transport logic and an exclusive, dual real-time counter are controlled by a separate proprietary microprocessor
- Audio and transport electronics card frame is located conveniently for ease of adjustment and servicing
- Hinged-top transport deckplate for easy access
- Direct-coupled outputs; active balancing on inputs and outputs. Optional transformers are available
- Adjustable phase compensation, bias, record and playback levels which are aided by an internal multi-frequency square/sine wave generator
- Return-to-zero feature is standard
- Optional tape locator with ten position memory and shuttle
- Rear-panel interface to transport and time-base functions for SMPTE interlock
- Fast threading, simple tape path with no swing arms
- Tape splicing block, selectable edit modes, tape shuttle control, NAB adaptors, and desk-height console on casters

The four channel model, MTR-10-4 is also easily converted to 1/4", two channel with a simple plug-in headblock change. Whether the application is for recording studio, broadcast production, soundtrack or advanced industrial requirements, the MTR-10 Series will deliver exceptional quality master recordings with the highest reliability obtainable in a professional recorder.

MTR-10 Series Specifications Two Channel & Four Channel

(Preliminary)

Tape Width:	¼" & ½"	
Reel Size:	10½ NAB Maximum	
Capstan Motor:	Direct Drive Servo Servo by Quartz PLL	
Tape Speed:	30/15 ips 15/7.5 ips 7.5/3.75 ips	3 speeds, 2 versions
Speed Deviation:	±0.03%	
Fast Winding Time:	Less than 100 seconds for 2400'	
Wow & Flutter:		
@30 ips	0.04% Unweighted (DIN)	
@15 ips:	0.06% Unweighted (DIN)	
Head Configuration:	3 heads in line (Both ¼" & ½")	
Control:	Microprocessor, Full D.C. Servo	
Line Input:		
Level:	+4 dBm, Minimum -6 dBm	
Output Impedance:	██████████	Less than 40 ohms Active, balanced
Maximum Output:	██████████	+28 dBm
Connector:	XLR type	
Headphone Output: (Level & Impedance)	0 to -10 dBm @ 8 ohms impedance	
Equalization:	Switchable, NAB/IEC/AES	
Bias Frequency: (Both Erase & Record)	250 kHz	
Record Level:	Switchable, 320/250/185 nWb/m	
Frequency Response:		
30 ips:	¼", 2-Track 40 to 28 kHz ±2.0 dB ½", 4-Track ██████████	50 to 28 kHz ±2.0 dB 30 to 20 kHz ±2.0 dB
15 ips:	¼", 2-Track ██████████ ½", 4-Track 30 to 20 kHz ±2.0 dB	
Frequency Response (At Sel/Rep)		
30 ips:	¼", 2-Track 60 to 20 kHz ±2.0 dB ½", 4-Track 50 to 20 kHz ±2.0 dB	
15 ips:	¼", 2-Track 30 to 12 kHz ±2.0 dB ½", 4-Track 30 to 18 kHz ±2.0 dB	
Signal-To-Noise Ratio:		
30 ips:	Unweighted AES: 66 dB/2-Track	
15 ips:	Unweighted NAB: ██████████	65 dB/2-Track & 4 Track
Recording Level:	520 nWb/m	
Distortion:	0.3% or less @ 1 kHz with 250 nWb/m	
Crosstalk: (@ 1 kHz)	¼", More than 65 dB ½", More than 60 dB	
Erase Effect:	Better than 80 dB	
Weight:	150 lbs., both ¼" & ½"	
Motor:	All D.C. Servo controlled for both Capstan and Reel	
Pitch Control:	±20%	
Tape Timer:	Dual Electronic Control	
External Servo:	Yes	
Return-To-Zero:	Yes	
PLL Servo:	Yes	
Peak Indicators:	Yes	
Standard Reference Level:	Yes	
Test Oscillator:	Yes	

Manufactured in Japan by Otari Electric Co., LTD.

Otari reserves the right to change specifications and prices without notice or obligation.

The New Workhorse



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