Offered in two professional formats, ¼" two-channel and ½" 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 ¼" , 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

- Tape Width: ⅛" & ¹⁄₄"
- Reel Size: 10½ NAB Maximum
- Capstan Motor: Direct Drive Servo
- Capstan Motor: Servo by Quartz PLL
- Tape Speed: 30/15 ips, 15/7.5 ips, 7.5/3.75 ips
- 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: 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
  ¼", 2-Track 30 to 20 kHz ±2.0 dB
  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
  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

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