

OTARI**5050
SERIES**

Model 5050 MARK III/2 1/4" Two Channel Recorder

The Otari 5050 MARK III/2 is a compact, tabletop console recorder in the 1/4" two channel format. The optimized three head design and transformerless balanced inputs and outputs provide superior frequency response, distortion and signal-to-noise performance under professional studio conditions.

The Capstan motor is under servo control and is switchable between 15/7.5 ips and 7.5/3.75 ips speed pairs. Proprietary microprocessors govern tape handling and the real-time electronic counter which features an HRS/MINS/SECS L.E.D. display that is tape accurate at all speeds.

Front panel access is provided for record setup adjustments and a built-in oscillator provides 1 kHz and 10 kHz tones.

The multipin interface connector permits easy connection to SMPTE based controllers and synchronizers.

Two optional remote control units are available. The CB-102 duplicates the MARK III/2's transport control and Record buttons. The CB-116 Autolocator includes the CB-102 functions, plus a separate HRS/MINS/SECS L.E.D. display and six cue point memories for search and repeat operations.

The extremely rugged mechanical construction includes a 1/4" deckplate with cast aluminum side panels and steel support members. All circuit boards are designed to swing out or unplug for full service access.

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The MARK III/2 is compatible with all dbx* noise reduction products.

Each 5050 MARK III/2 incorporates these standard features:

- ☐ Positive-action transport controls with microprocessor governed logic, motion sensing, and Dynamic Braking
- ☐ Interface connector for external machine control via SMPTE/EBU time code-based synchronizers and editors
- ☐ D.C. capstan, servo-controlled
- ☐ Transformerless balanced inputs and outputs with XL type connectors
- ☐ Built-in test oscillator (1 kHz, 10 kHz)
- ☐ Front panel record setup adjustments
- ☐ 3 speeds switch selectable in 15/7.5 ips or 7.5/3.75 ips speed pairs
- ☐ Fourth head switch selectable for 1/4 track stereo playback
- ☐ Microprocessor-controlled HRS/MINS/SECS real-time counter with L.E.D. display
- ☐ Zero Return button operational from positive or negative tape locations
- ☐ Line output switch selectable for +4 dBm or -10 dBV level
- ☐ Mic input has switch selectable 20 dB pad and mute
- ☐ Mic/Line mixing on each channel
- ☐ Record reference level switch selectable (185, 250, 320 nWb/m)
- ☐ Equalization switch selectable (NAB, IEC)
- ☐ Lighted V.U meters with L.E.D. peak indication
- ☐ Headphone monitor output
- ☐ Plug-in head assembly with hinged cover for easy access
- ☐ Variable speed control ($\pm 7\%$) usable in record and play
- ☐ Dump Edit and Cue (lifter defeat) modes
- ☐ Reel Size switch selectable (5"-7", 10.5") EIA or NAB
- ☐ Low frequency reproduce eq. adjustable
- ☐ Integral splicing block

MARK III/2 Recorders are covered by a one-year parts and labor limited warranty. Heads, pinchroller, fuses and lamps have a 90-day parts warranty.

Call or write for a full color, descriptive brochure.

*Trademark dbx, Incorporated

5050 MARK III/2 1/4" TWO CHANNEL SPECIFICATIONS

TRANSPORT

Tape Width and Channels:	1/4" (6.3mm) tape, 2 channel
Tape Speeds:	15 and 7.5 ips or 7.5 and 3.75 ips internally switchable speed pairs
Maximum Speed Deviation:	$\pm 0.2\%$
Reel Size:	1/4" x 5, 7 or 10.5" EIA or NAB
Heads: (4, In-line)	Erase (half track), Play (quarter track), Record (half track), Play (half track)
Motors:	D.C. servo-controlled capstan motor, two induction reel motors
Rewind Time:	Less than 90 seconds for a 2,400' reel
Pitch Control:	Variable within $\pm 7\%$
Wow and Flutter: (NAB weighted)	15 ips, less than 0.04% 7.5 ips, less than 0.07% 3.75 ips, less than 0.08%

ELECTRONICS

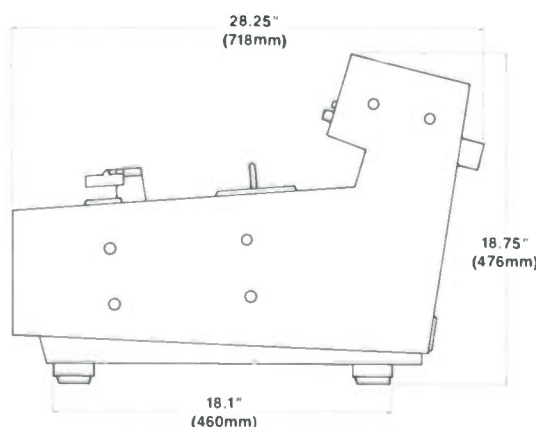
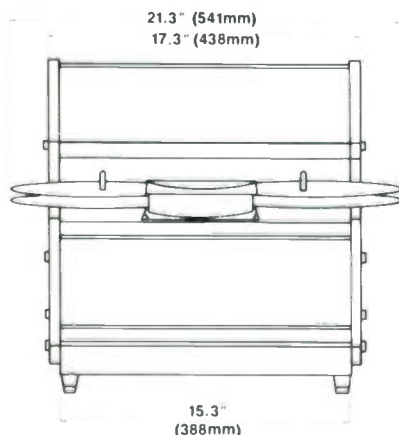
Connectors:	Line input, Mic input and Line output: standard three pin XL type. Headphone: standard 1/4" phone jack
Inputs:	Line = Active, balanced, 10 kOhms Mic = Active, balanced, usable: 150 Ohms to 10 kOhms Switchable 20 dB pad and mute
Outputs:	Active, balanced 5 Ohms source impedance $+ 27$ dB (ref. 0.775 V) into 600 Ohms or more
Signal-To-Noise Ratio: (3% Third Harmonic to noise floor, 30-18kHz NAB EQ)	15 ips 68 dB unweighted 7.5 ips 71 dB unweighted 3.75 ips 69 dB unweighted
Equalization:	IEC or NAB, switchable
Crosstalk:	Less than 55 dB at 1 kHz on adjacent track
Frequency Response: Record/Reproduce:	15 ips (0 VU): 30 Hz to 20 kHz, ± 2.0 dB 7.5 ips (-10 VU): 30 Hz to 20 kHz, ± 2.0 dB 3.75 ips (-20 VU): 20 Hz to 12 kHz, ± 2.0 dB
Operating Level:	250 nWb/m
Distortion:	Less than 0.5% Third Harmonic
Test Oscillator Frequencies:	Nominal 1 kHz and 10 kHz
Test Conditions:	As specified, using Ampex #456 tape

PHYSICAL

Power Requirements:	110/117/220/240 V, $\pm 10\%$, 50/60 Hz, single phase AC, 140W
Operating Environment:	40 to 104°F (5° to 40°C), 20 to 80% R.H.
Storage Equipment:	-5 to +113°F (-20° to 45°C), 10 to 80% R.H.
Mounting:	Vinyl covered wood case; (RK-32) Rack mounting kit and (ZA-52L) Roll-around pedestal, optional
Standard Accessories:	Reel hold down knobs, 1/4" x 1/2" empty NAB reel, operation manual and power cord
Optional Accessories:	CB-116 Autolocator CB-102 Remote transport control ZA-52L Roll-around pedestal ZA-53T Input isolation transformers ZA-53S Output isolation transformers RK-32 Rack mount
Shipping Weight:	105 lbs. (48 kg) in shipping carton

Manufactured in Japan by Otari Electric Co., Ltd.

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



OTARI®

Otari Corporation
2 Davis Drive
Belmont, California 94002
Phone: (415) 592-8311
Telex: 9103764890

Otari Electric Co., Ltd.
4-29-18 Minami-Ogikubo
Suginami-ku, Tokyo 167
Japan
Phone: (03) 331-9631
Telex: J26604 OTRDENKI

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