

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.

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.

continued on back side



continued from front side

The MARK III/2 is compatible with all dbx¹ noise reduction products.

A transport remote control and full function auto-locator are available as options.

Each 5050 MARK III/2 incorporates these standard features:

- ☐ Transformerless balanced inputs and outputs with XL type connectors.
- ☐ 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.
- ☐ Headphone monitor output.
- ☐ Lighted VU meters with L.E.D. peak indication.
- ☐ 3 speeds switch selectable in 15/7.5 ips or 7.5/3.75 ips speed pairs.
- ☐ Record reference level switch selectable (185, 250, 320 nWb/m.)
- ☐ Equalization switch selectable (NAB, IEC).
- ☐ Reel Size switch selectable (5"-7", 10.5") EIA or NAB.
- ☐ Low frequency reproduce eq. adjustable.
- ☐ Fourth head switch selectable for 1/4 track stereo playback.
- ☐ Plug-in head assembly with hinged cover for easy access.
- ☐ Front panel record setup adjustments.
- ☐ Integral splicing block.
- ☐ Built-in test oscillator (1 kHz, 10 kHz).
- ☐ Microprocessor-controlled HRS/MINS/SECS reel-time counter with L.E.D. display.
- ☐ Dump Edit and Cue (lifter defeat) modes.
- ☐ D.C. capstan motor, servo controlled.
- ☐ Microprocessor-controlled transport with 34 pin External Control connector.
- ☐ Variable speed control ($\pm 7\%$) usable in record and play.
- ☐ Zero Return button operational from positive or negative tape locations.

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

¹Trademark 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:	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:	15 ips, less than 0.04% 7.5 ips, less than 0.07% 3.75 ips, less than 0.08%

ELECTRONICS

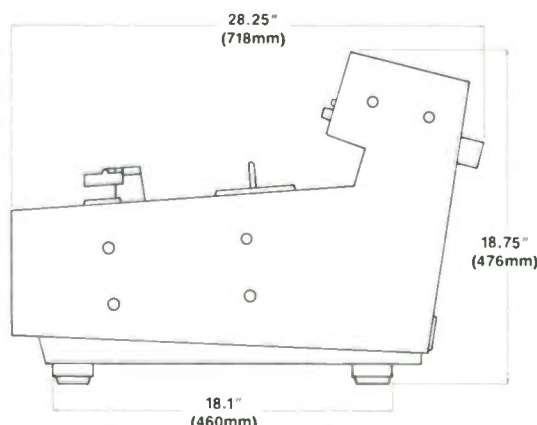
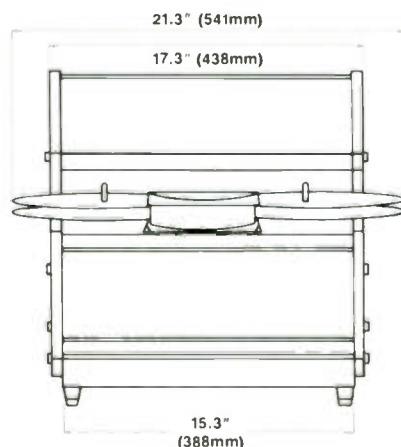
Connectors:	Line input, Mic input and Line output: standard three pin XL type. Headphone: standard 1/4" phone jack
Inputs:	Line = Active, balanced, 10 kOhms Mic = Active, balanced, usable: 150 Ohms to 10 kOhms Switchable 20 dB pad and mute
Outputs:	Active, balanced 5 Ohms source impedance +27 dB (ref. 0.775 V) into 600 Ohms or more
Signal-To-Noise Ratio: (3% Third Harmonic to noise floor, 30-18kHz) NAB EQ	15 ips 72 dB unweighted 7.5 ips 72 dB unweighted 3.75 ips 70 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): 25 Hz to 22 kHz ± 2.0 dB 7.5 ips (-10 VU): 20 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: (1 kHz, 250 nWb/m)	Less than 0.5% Third Harmonic (15 ips)
Test Oscillator Frequencies:	Nominal 1 kHz and 10 kHz
Test Conditions:	As specified, using 3M #226 tape

PHYSICAL

Power Requirements:	100/117/220/240 V, $\pm 10\%$, 50/60 Hz single phase AC, 140 W
Operating Environment:	40 to 104 degrees F (5° to 40°C), 20 to 80% R.H.
Storage Environment:	-5 to +113 degrees 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 10 1/2" empty NAB reel, operation manual and power cord
Optional Accessories:	CB-116 Auto locator CB-102 Remote transport control ZA-52L Roll-around pedestal ZA-53T Input isolation transformers ZA-53S Output isolation transformers RK-32 rack mount
Weight:	89 lbs. (40 kg) in shipping carton

Manufactured in Japan by Otari Electric Co., Ltd.

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



OTARI[®]

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