

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.

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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.

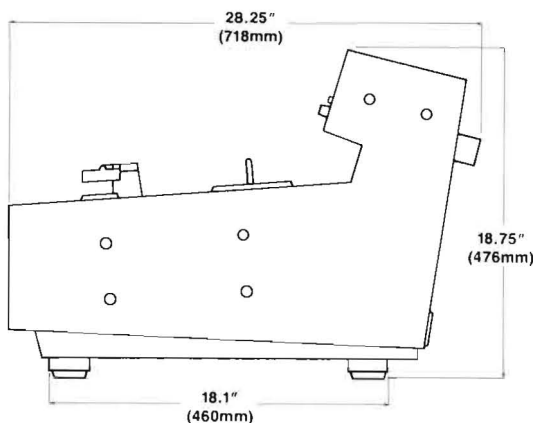
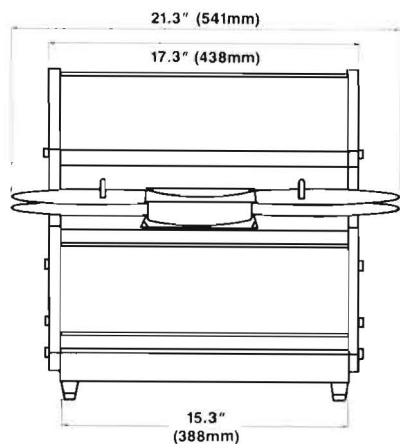
¹Trademark dbx, Incorporated

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: (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:	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.



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Printed in U.S.A.
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