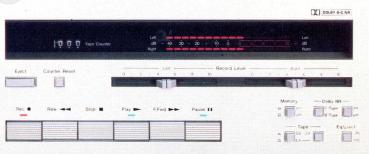
Nakamichi 480Z 2 Head Cassette Deck





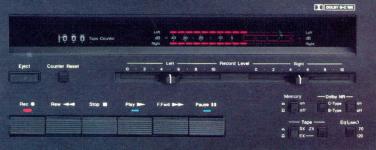
480Z/Silver

Complement your system with a Nakamichi 480Z—in black or silver to coordinate with any componentry.
Experience the excellence of Nakamichi sound—the unique purity and detail that has never been equalled. Experience the utter silence of the utter silence of Dolby C in a unique 2-head recorder truly capable of utilizing it.

480Z/Black

480Z/Black
Our special narrowgap Sendust R/P
head, Dual-Gap Erase
head, and "BiasTune" feature make
the 480Z compatible
with the most
advanced tape formulations. And, our
unique 3-motor, Asymmetrical, DiffusedResonance Transport
with Motor-Driven
Cam virtually elimi-Cam virtually elimi-nates vibration, flutter and modulation noise.





Gateway to Excellence

Since it was introduced, the 480 has proved to be our most popular recorder. Small wonder! Though simple to operate, it outperforms any 2-head deck on the market. After extensive testing, STEREO magazine reported: "The 480 provided a recording bandwidth seldom found on three-head decks and, to our recollection, one we've never seen on a combination-head deck.' (STEREO, Summer 1980)

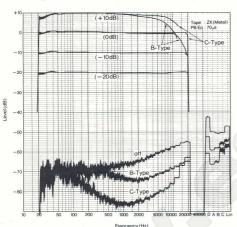
Now we've created the 480Z, a new and improved successor to the 480. Why tamper with a winner? Because technology is ever evolving; research is on-going, and, when breakthroughs are made, we strive to bring the fruit of our efforts to the audiophile immediately.

Two Noise-Reduction Systems

The 480Z offers both Dolby B-type and C-type noise reduction-Dolby B to maintain compatibility with your present library of cassette tapes and Dolby C to create new recordings in which tape hiss is virtually inaudible. Compared with Dolby B, C processing provides 10-dB greater quieting in the 2 to 8 kHz region where hiss is most annoying. And, it operates over a twooctave wider bandwidth so noise-reduction benefits are extended to lower frequencies. Most important, Dolby C does not "pump" or "breathe" as linear companders do. But Dolby C makes great demands on the recorder. Frequency response not only must be extended but must be very smooth. Response irregularities are exaggerated more by Dolby C than by Dolby B, and this can lead to audible coloration.

Extraordinary Response

One audition of the Nakamichi 480Z and you know this is no ordinary cassette deck. The development of a special narrowgap Sendust R/P



Frequency Response/Noise Analysis

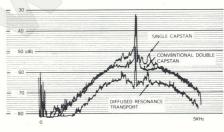
head makes record breaking response (20-20,000 Hz) possible in a 2-head configuration—a response so wide and smooth that the full benefits of Dolby C are real-ized without audible side effects.

The response and noise-analysis curves tell the story-flat response not only at low recording levels but at 0 dB too thanks to Dolby C's spectral-skew-

ing and anti-saturation circuits!

With separate EQ and TAPE selector switches plus a new "Bias Tune" control, flat response can be realized with a wide variety of tapes.

Asymmetrical, Dual-Capstan, Diffused-Resonance Transport Don't underestimate the importance of the transport! Conventional flutter measurements tell only part of the story. Scrape flutter and modulation noise—not included in standard specifica-



Rec Level 0dB Tape EXII

Modulation-Noise Analysis

tions-can be even more important-especially when hiss is virtually eliminated by Dolby C.

If the tape scrapes or vibrates as it passes the gap, noiselike "sidebands" are produced; these muddle reproduction. Such "noise" is quite different from

Nakamichi Corporation Tokyo Office

Nakamichi U.S.A. Corporation

"hiss," and, inasmuch as modulation noise increases with signal level, noise-reduction systems do not suppress it completely.

In principle, the 480Z transport is very similar to that used in our most expensive recorders. Dual capstans wrest control of the tape from the cassette, and a tape-pad lifter removes the major cause of scrape flutter. Capstans and flywheels have different diameters and inertias to avoid resonance reinforcement, and special materials are used to damp motor vibration. A motordriven cam smoothly and silently positions heads, pressure rollers, and brakes. Advanced logic provides direct access between modes as well as timer and remote operation.

Electronic Metering/Two-Level Headphone

Nakamichi recorders have been known for superior metering. With its new peak-responding electronic LED displays, the 480Z is no exception. Meter range extends from 40 dB below Dolby level to 10 dB above "0"—sufficiently wide to give accurate indications on all musical signals.

Headphone output is selectable too via a rear-panel switch. Choose the high setting for less efficient headsets, the low setting for more sensitive headphones or when you wish to listen at

relatively low levels.

Features

- Dolby B and Dolby C Noise Reduction With Defeatable MPX
- Metal-Tape Recording for Superior High-Frequency Headroom
 Sendust R/P Head With Narrow Gap And 20,000-Hz Response
- Dual-Gap Erase Head For Low-Noise Erasure Of Metal Tape
- Separate Tape And Equalization Switches For ZX, SX, And EX
- Bias-Tune Control To Optimize Response With Any Tape
- Asymmetrical, Dual-Capstan, Diffused-Resonance Transport With Motor-Driven Cam, Dual Slot Guides, And Tape-Pad Lifter
- IC Logic With High-Speed Auto Shut Off Protects Your Tapes
- Auto Takeup Of Slack Tape Whenever A New Cassette Is Loaded
- 50-dB Peak-Responding Electronic LED Metering
- Slider-Type Record-Level Controls
- Two-Level Headphone Output
- Tape-Start Memory With 3-Digit Counter
 Timer Operation In Record Or Playback Via Accessory Timer
- RM-100 Remote Unit (Optional) With Full Transport Control
 Available In Matte Black Or Silver To Coordinate With Any System

480Z Specifications:

Frequency Response20–20,000 Hz (-20 dB Rec. Level) S/N with Dolby-C NR Better than 68 dB (400 Hz, 3% THD, A-wtd rms, 70 μs, ZX tape)

S/N with Dolby-B NR Better than 62 dB (400 Hz, 3% THD, A-wtd rms, 70 μs, ZX tape)

Total Harmonia Diotation

Total Harmonic Distortion . Less than 1.0% (ZX tape) (400 Hz, 0 dB)Less than 1.2% (SX, EXII tape) Tape Speed $\dots 1\%$ ips (4.8 cm/s) $\pm 0.5\%$ Wow-and-FlutterLess than 0.11% WTD peak

Less than 0.06% WTD rms Erasure Better than 60 dB below saturation

level at 1 kHz

Power Source100, 120, 120/220-240, 220 or 240V; 50/60 Hz (according to country of

sale)

Power Consumption30 W Max.

1723/32(W) x 55/16(H) x 113/8(D) inches

Approximate Weight6.4 kg, 14 lb 2 oz

*Specifications and appearance subject to change without notice.

*Dolby NR under license from Dolby Laboratories.

*The word "DOLBY" and the Double-D symbol are trademarks of Dolby Laboratories.

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