



Nakamichi 350

Versatile Cassette Deck



The Nakamichi 350 brings new meaning to the word "versatility." By applying much of the technology developed for the now famous Nakamichi 550 on-location cassette recorder, Nakamichi has produced a compact deck that, like the 550, delivers performance befitting the best home music systems, and that can be readily adapted for car playback systems and "portable studio" use. The 350 fea-

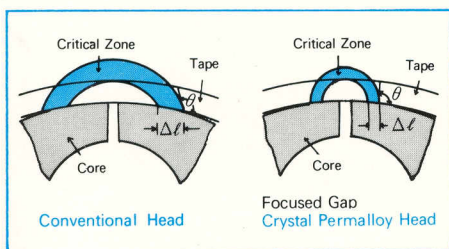
tures Nakamichi's ultra heavy duty DC servomotor driven transport, Focused-Field Crystal Permalloy record/playback head, three microphone inputs, headphone output, 35 dB range peak level meter, tape selection, Dolby Noise Reduction and low-noise, low power consumption electronics. Far more than an exercise in miniaturization, the 350 is an engineering triumph.



FEATURES

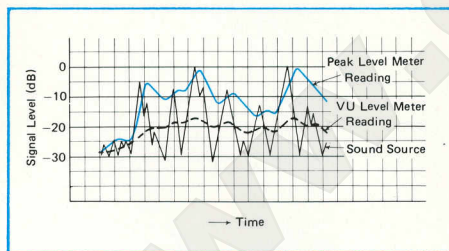
Focused Field Crystal Permalloy Head

As with other Nakamichi 2 head cassette decks, the 350 employs a Focused Field Crystal Permalloy record/playback head that produces a concentrated "critical zone" during record for low distortion and extended high frequency response. During playback, the same head maintains a critically narrow 1.5 micron gap for superior signal-to-noise ratio and high frequency response. These properties are the results of a unique magnetic material, Crystal Permalloy, and special low-stress micro-precision assembly techniques that ensure an effective gap that does vary from the physical gap.



35 dB Range Peak Level Meter

In order to save space the 350 is fitted with a single 35 dB peak level meter that reads the higher of the stereo channels at any given moment. The fast response of this meter ensures the accurate setting of levels under a variety of recording situations.



Tape Selector Switch

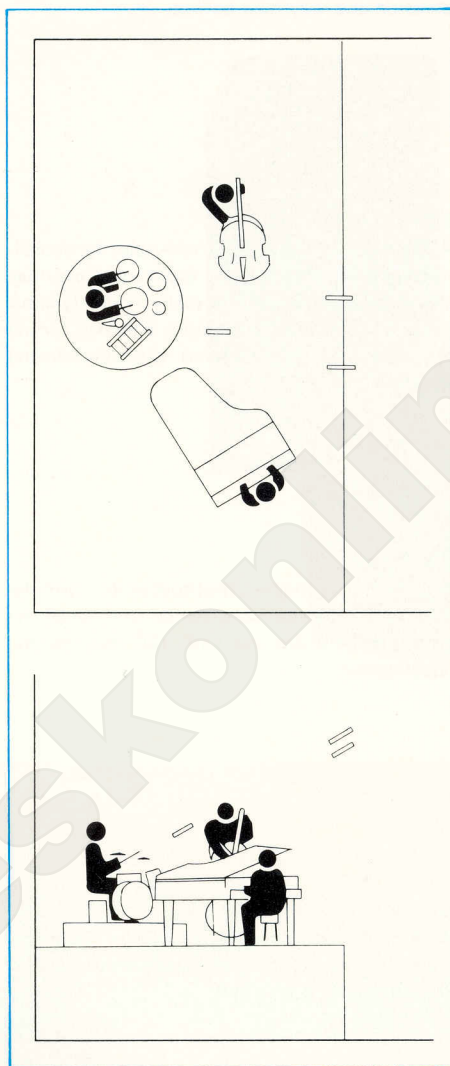
The user can select the proper bias and equalization for either low-noise/high-output formulations (EX) or the new high-coercivity/high-resolution formulations (SX) with the Tape Selector Switch on the front panel of the 350.

Dolby Noise Reduction System

Built-in Dolby System reduces tape hiss by as much as 10 dB.

3-Point Microphone Mixing

The 350 is designed to take advantage of the Nakamichi 3-mic live recording system. The mic inputs are left, right and blend (center), and each microphone has its own level control.



Headphone Output

The Stereo headphone jack on the 350 provides 2 mW per channel into 8 ohms at 0 dB. With high efficiency dynamic headphones the output is adequate for normal listening or live monitoring while the battery's power is conserved for maximum recording time.

Proven Transport

The 350 utilizes Nakamichi's famous DC servomotor driven transport. The wow & flutter is inaudibly low, and the tape speed stability is unwaveringly high. Heavy duty precision construction, furthermore, assures ruggedness and long life.

Line Inputs and Outputs

Since the 350 is a natural choice for home use as well as outdoors use, complete line inputs and outputs are provided for easy interfacing with component music systems.

Multiple Power Sources

The versatile 350 can be powered in any one of three ways:

- 1) With the AC Power Pack (included) the 350 may be used indoors with 117 volts AC (220 volts where applicable).
- 2) 12 volts DC from an automobile's battery (boats and airplanes, also) allows mobile use of the 350.
- 3) The rechargeable lead-acid battery built into the 350's heavy-duty carrying case (optional) makes the 350 a compact high-quality on-location recorder.

Rugged Mounting Bracket

A sturdy two-piece mounting bracket is provided with the 350 for under-dashboard mounting. The 350 can be easily installed in or removed from the bracket by tightening or loosening two large dial knobs. The mounting system is secure and foolproof.



Special 12 Volt Car Connector

The 6 pin 12 volt car connector on the rear panel of the 350 allows simple one-connector interfacing with the ADS miniature speaker systems. All audio and power connections are made with this single connector.

Full Automatic Shutoff

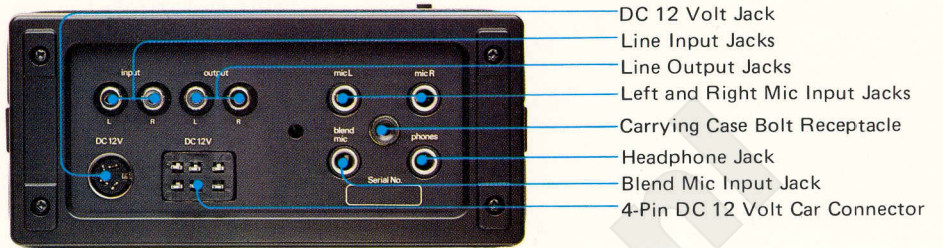
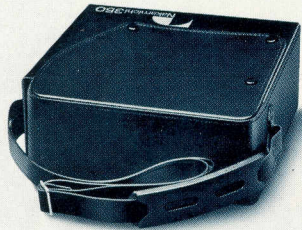
At the end of the cassette tape the 350 will automatically return to the STOP mode, thereby shutting off the power to the deck and the ADS system amplifiers (if an ADS system is in use) as well as effecting a complete mechanical disengagement. Identical results will be produced in the event power to the 350 is interrupted.

OPTIONAL ACCESSORY

Heavy Duty Carrying Case

The 350 is easily fitted into its optional case. This case provides a built-in rechargeable 12 volt lead-acid battery, which exhibits discharge characteristics far superior to those of Nickel Cadmium batteries. The case also features a miniature circuit that allows recharging of the battery by utilizing the AC Power Pack (in-

cluded with the 350). A 12 hour charge yields 5-6 hours of continuous recording time (longer for intermittent use). Weight: 4.4lbs. (2kg.)



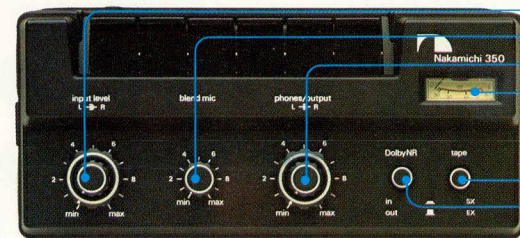
- DC 12 Volt Jack
- Line Input Jacks
- Line Output Jacks
- Left and Right Mic Input Jacks
- Carrying Case Bolt Receptacle
- Headphone Jack
- Blend Mic Input Jack
- 4-Pin DC 12 Volt Car Connector

Specifications

Power Supply	12 V DC (AC with AC Power Pack)
Power Consumption	5W
Tape Speed	1-7/8 inches per second 4.8 centimeters per second
Wow & Flutter	less than 0.13% (DIN 45507 Wtd peak) less than 0.08% (Wrms)
Frequency Response	40-15,000 Hz ±3 dB (W/MPX filter SX, EX II tapes, with or w/o Dolby System)
Signal-to-Noise Ratio	better than 58 dB (@400 Hz, 3% Distortion, CCITT, Wrms, SX tape)
Total Harmonic Distortion	less than 2% (@400 Hz, 0 dB)
Erasure	better than 60 dB (@1 kHz saturation level)
Channel Separation	better than 35 dB (@1 kHz, 0 dB)
Crosstalk	better than 60 dB (@1 kHz, 0 dB)
Bias Frequency	105 kHz
Input Sensitivity/Impedance	
Mic	0.2 mV/10k ohms
Blend Mic	0.2 mV/10k ohms
Line	50 mV/50 k ohms
Output Level	
Line	580 mV (0 dB)
Headphone	2 mW into 8 ohms (0 dB)
Dimensions	7 1/3 (W) x 3 1/2 (H) x 9 1/2 (D) inches 186(W) x 90(H) x 242(D) mm
Weight	6.6 lbs. 3 kg.



- Tape Counter
- Cassette Lid
- Record Button
- Rewind Button
- Stop/Eject Button
- Play Button
- Fast Forward Button
- Pause Button



- Input Level Controls
- Blend Mic Level Control
- Phone/Output Level Control
- Peak Level Meter
- Tape Selector Switch
- Dolby Noise Reduction System Switch

- Specifications and appearance design are subject to change for further improvement without notice.
- Dolby NR under license from Dolby Laboratories Inc.
- The word "DOLBY NR" and the Double-D-Symbol are trademarks of Dolby Laboratories Inc.

Note: The 350 provides line and headphone outputs only. It has no built-in power amplifier. Its use in car stereo systems, therefore, requires an external 12V power amplifier. Conventional car speakers cannot be connected directly to the 350. The ADS 2001/2002 miniature speaker systems are ideal for use with the 350 since they provide their own bi-amplification.



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Nakamichi Cassette Tapes and Demagnetizer

All Nakamichi cassette tapes are single coated formulations that feature extra quality control for superior consistency, and jam/skew resistant micro-precision housings. They are available in C-60 and C-90 lengths.



SX Tape

A high coercivity/high resolution formulation of ionized cobalt on gamma ferric oxide — utilizes 70 microsecond equalization for the best possible signal-to-noise ratio — features low abrasion and very high output.



EX II Tape

A high-density/high-output/low-noise ferricobalt formulation featuring excellent overload characteristics for an unusually wide dynamic range — utilizes EX bias and is intended for use primarily with the standard 120 microsecond equalization.



EX Tape

A pure ferric high-output/low-noise formulation with superior consistency and wide dynamic range — for use with 120 microsecond equalization.



Demagnetizer

A specially designed demagnetizer featuring built-in power switch and exceptional ease of use with cassette recorders.

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