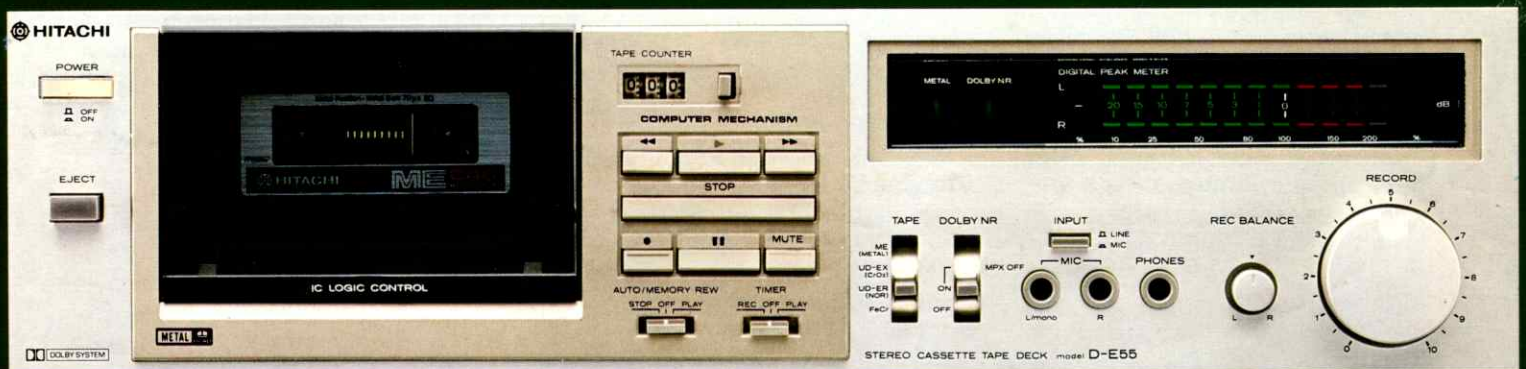


# D-E55

 **HITACHI**

Microcomputer-Controlled Cassette Deck  
with Metal-Tape Compatibility, Feather-  
Touch Controls, Auto Rec Mute Function,  
and Dual 12-LED Peak Meters



**DOLBY SYSTEM**

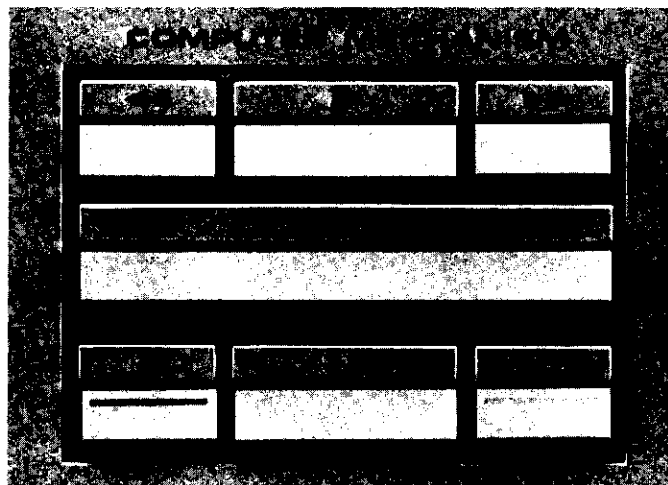
# Microcomputer-Controlled Cassette Deck with Metal-Tape Compatibility, Feather-Touch Controls, Auto Rec Mute Function, and Dual 12-LED Peak Meters

## D-E55

The first thing that will impress you about the D-E55 is that it has the look and feel of a precision instrument. The handsome styling and the incredibly smooth operation provided by the built-in microprocessor and power-assisted feather-touch controls are unexpectedly luxurious considering the D-E55's accessible price tag. A large number of computer-controlled automatic functions have been incorporated, too—for exceptional flexibility and convenience. You get Auto Rec Mute, Auto Rewind Play/Stop, Computerized Memory Rewind, Timer Play/Record, and provision for optional remote control. Naturally, the D-E55 also gives you the great sound Hitachi is famous for. It's metal-tape compatible, and there's a 4-position tape selector switch to get excellent performance with any kind of tape. Dual 12-LED peak level indicators permit accurate setting of recording levels. This is a high-performance, feature-packed deck that will bring you hours of musical entertainment.

### Metal Capability

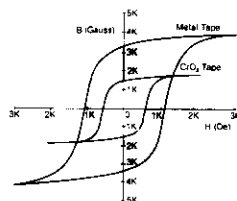
Metal tapes (tape coated with metal particles instead of oxides, etc.) are one of the most important advances in the audio industry in recent years. They provide greater dynamic range, better signal-to-noise ratio and improved frequency response. However, a much stronger signal is required to impress the sound image onto the tape, and a stronger erase signal to remove it. This in turn requires special circuitry and heads, so only the most modern decks are capable of recording metal tape. Because metal tape has proved so pop-



time with just the right amount of force. What's more, all controls are feather-touch and can be switched directly from mode to mode without the need to push the stop button. The microprocessor also controls a variety of automatic functions, described below.

ular, Hitachi now builds metal capability into all of its decks. Just set the D-E55's 4-position

Hysteresis Curve



tape selector switch to the metal position and load it with metal tape, for musical reproduction accuracy impossible with ordinary cassettes.

SL Permalloy head



### Microcomputer Control

Conventional tape decks use mechanical linkages to engage the mechanism when you push the transport controls. These can eventually cause alignment problems, particularly if too much force is used. Also, a mistake in operation such as pushing fast forward instead of stop when the tape is rewinding is liable to stretch the tape or damage the transport. The D-E55's microcomputer control ends these problems by intelligently managing all functions, gliding the transport into position at the proper



### Computerized Memory Rewind

Unlike ordinary memory rewind systems which rely on the tape counter to specify the desired stopping point on the tape, the D-E55 system uses the microcomputer to memorize the position of the tape when the Play button is pressed, allowing to rewind to that point at any time. When the Memory Rewind Play mode is selected, the tape begins to play after being re-wound, very convenient for listening to a particular selection a number of times. Memory Rewind is also a big help when recording; to re-record after having made a mistake, use Memory Rewind stop to return to the exact position you started at.

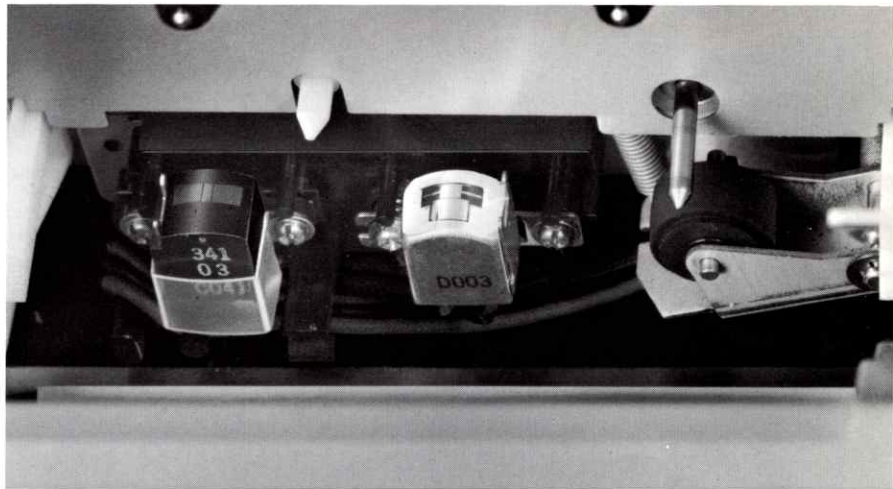
### Auto Rewind Play/Stop

This handy feature adds a lot to operating convenience. In the Stop mode, the tape is automatically re-wound when the end is reached and the transport is shut off—no need to waste time re-winding it later. In the Play mode, the tape is automatically re-wound at the end, the Play function is re-initiated so you hear the same side again until you stop it manually—ideal for continuous background music.

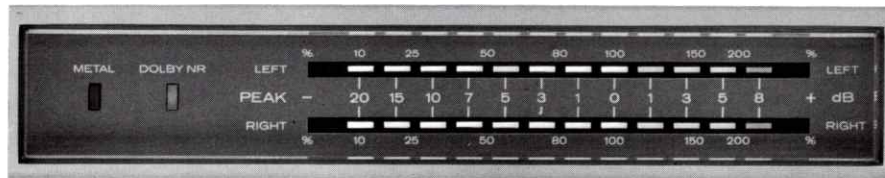
### Auto Rec Mute

Still another feature made possible by the microcomputer,

Auto Rec Mute makes taping easier and gives better results. One touch of the Rec Mute button and a 4-second section of blank tape is automatically made, the ideal way to place intervals of silence between the selections on your tape. Intervals other than 4 seconds may also be made by using the Pause button in combination with the Rec Mute button. The Pause indicator flashes once a second to help you measure the exact time desired.



### LED Peak Meters



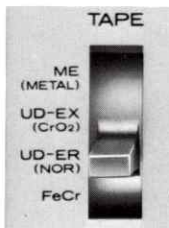
Instead of the usual mechanical VU or peak meters, the D-E55 offers dual 12-LED peak indicators driven by advanced digital circuitry. Since there are no moving parts, these meters do not suffer from delay or overshoot like their mechanical counterparts, and therefore provide accurate, instantaneous visual monitoring of signal levels.

You'll really appreciate how easy these meters make it to set precise record levels for top-quality recordings.

### 4-Position Tape Selector Switch

A large variety of recording tapes are available on the market, with widely varying characteristics. It is essential that the deck be matched to the particular type of tape in use if

ideal results are to be obtained. The D-55 has switch settings for metal, CrO<sub>2</sub>, normal, and FeCr tapes, giving you optimum results whatever tape type you use.



### Rec Balance/ Record Level Controls

The D-E55 has unique recording level controls that makes level setting easier than with conventional decks. A large master level control adjusts the levels of both channels simultaneously, and a separate Rec



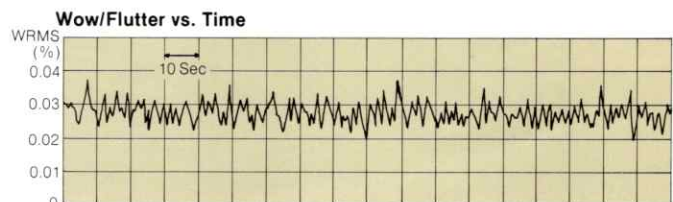
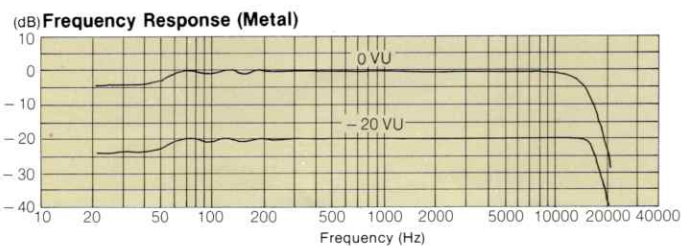
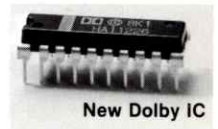
Balance control lets you adjust the balance of recording level between channels when necessary.

### Automatic Stop

If a tape ends and the transport mechanism remains engaged, considerable pressure is exerted on the head, pinch roller and tape. This can cause wear and warpage. The D-E55 eliminates the problem by incorporating an automatic stop mechanism which disengages the transport at tape end.

### Other Features

- \* Dolby/noise reduction circuitry for clean, hiss-free recordings
- \* Optional remote control unit (RB-100)
- \* L/mono and R mic jacks
- \* Metal and Dolby NR indicators
- \* Input selector
- \* Front-panel headphone jack
- \* 3-digit tape counter
- \* Timer rec/play with alarm



# D-E55

## Specifications:



Track System:	4-track, 2-channel stereo	Signal-to-Noise Ratio (A-weighted, metal tape ref. 3.0% THD):	59 dB (Dolby NR off) 67 dB (Dolby NR on)
Motor:	Electrically controlled DC motor	Crosstalk	
Heads:	Metal-capable SL permalloy head Double-gap ferrite erase head	Track, 1 kHz:	Better than 60 dB
Bias Frequency		Channel, 1 kHz:	Better than 30 dB
AC Bias:	85 kHz	Input Sensitivity/Impedance	
Erasing Ratio:	More than 65 dB	Line in:	60 mV/more than 50 k-ohms
Tape Speed:	4.75 cm/sec. (1-7/8 ips)	Mic in:	0.38mV/300 ohms—5 k-ohms
Wow and Flutter:	0.04% WRMS	Output Level:	500 mV
Frequency Response		Matching Impedance	
Normal tape:	20—17,000 Hz	Line out:	More than 50 k-ohms
FeCr Tape:	30—15,000 Hz ( $\pm 3$ dB)	Head out:	8 ohms—2 k-ohms
CrO <sub>2</sub> tape:	20—17,000 Hz	Distortion:	1.0% (1 kHz, -3dB)
	30—15,000 Hz ( $\pm 3$ dB)	Power Supply:	For Australia: 240 V/50 Hz For other countries: 100—110 V, 115—127 V, 200—220 V, 230—250 V, 50/60 Hz
Metal tape:	20—18,000 Hz	Dimensions (W x H x D):	435 x 110 x 266 mm
	30—16,000 Hz ( $\pm 3$ dB)	Weight:	4.6 kg
	20—18,000 Hz		
	30—17,000 Hz ( $\pm 3$ dB)		

Specifications subject to change without notice.  
\*Dolby is a trademark of Dolby Laboratories.

 Hitachi, Ltd. Tokyo Japan