

MiniDisc Recorder DN-M991R



Playback Functions

- **Program Play (Max. 25 tracks)**
- **Program Play Memory**
Up to three MDs can have program sequences stored to non-volatile memory for future playback without having to re-program (great for Hot Start loading).
- **Rotary Track Selector**
- **Eject Lock (prevents disc from being removed during playback/record)**
- **Using Cue Point Search (up to 5 points per track)**
This function searches for the cue points previously recorded on the disc (similar to indexes on CDs).
- **Cue Points**
Cue point tally, can also be used to control external devices through DB-25 port.
- **Auto Cue**
After a track is selected, it is automatically cued to the point where audio starts, rather than where the track starts. The level at which sound is first detected is user-selectable between -36 and -72 dB (7 steps), or off.
- **Instant Start**
Audio starts instantly (within 0.01 seconds) with no delay or lag time.
- **Search Accuracy (86 frames per second)**
Great for precise playback cueing and especially useful during editing.
- **End Of Message (EOM)**
Near the end of a track, the PLAY/PAUSE button flashes, providing a visual warning to the operator that the track will end shortly. The point at which the flashing begins can be set within a range of 5 to 35 seconds (7 steps).
- **End Monitor**
Pressing the END MON button during standby instantly previews the end of the track,

thus assuring perfect "outros". The point at which monitoring starts can be set within a range of 5 to 35 seconds (7 steps).

- **Play Mode**
Single or Continuous
- **Finish Mode**
 - 1) **Stop:** Stops after playing a track or disc
 - 2) **Next:** Standby at the beginning of the next track after finishing a track
 - 3) **Recue:** After finishing a track, standby occurs at the beginning of that track
 - 4) **Repeat:** a. All Repeat: Repeat all tracks of a disc (Play mode: Continuous)
b. Single Repeat: Repeat a selected track (Play mode: Single)
- **Playback Pitch Control ($\pm 8.0\%$, 0.1% steps)**
This function can be adjusted in Preset mode.
- **Hot Start Function**
 - Up to 10 tracks or cue points can be instantly played on demand. This function is great for sound effects, commercial spots or music.
 - Hot Start operation is possible using parallel remote, serial remote or a keyboard (PS/2 connector, US keyboard with 101 or 104 keys recommended).
- **Fader Start (Play/Pause Control)**
External play/pause control is possible when a broadcast mixer is connected to the DN-M991R's DB-25 parallel remote terminal.
- **Easy Operation from IBM PC™ Compatible Keyboard**
 - PS/2 keyboard connector is provided on the back panel.
 - Operations such as playback, recording, program input, editing, and Hot Start can be easily performed.

Recording Functions

- **Auto Level Rec Start**
This function automatically starts the recording when an audio signal level from an external unit connected to the DN-M991R exceeds the preset level (-36 to -66 dB, 6 steps)

• Cue Point Recording

Up to five cue points can be recorded per track. This function can be used together with the cue point search function during playback.

• Pre-UTOC system

The UTOC recording method is selectable.

In the event of a power failure, Denon's pre-UTOC system is capable of detecting the power failure during recording and can play back the portion that was recorded immediately prior to the power failure. Usage of pre-UTOC is selectable by the preset function.

• Auto/Manual Track Increment

- Manual Track Increment: You can increase the track number by pressing the REC button at any time during recording.

- Auto Track Increment: The number of tracks is incremented automatically for recording.

1) As the input signal crosses a preset threshold during recording, a new track number is automatically created. One of 6 steps (-36/-42/-48/-54/*-60/-66 dB) can be selected in the preset mode.

(* This setting is possible for both analog and digital inputs.)

2) For digital signals, the track number is automatically incremented by the code included in the data (if enabled in Preset mode).

• Relay Record

This function allows continuous recording from one machine to the next.

• SCMS (Serial Copy Management System) On/Off

• Stereo/Mono Recording (74/148 min.) Selectable

Editing Functions

• Cue Point Editing

Cue signal points can be post-written, erased and rewritten.

• Undo/Redo Function

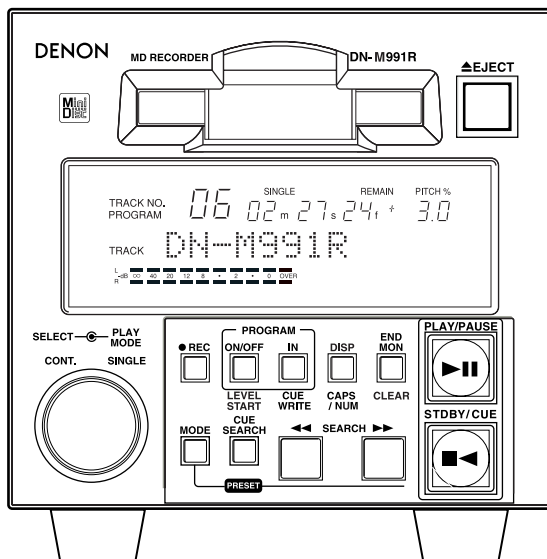
Up to two editing operations prior to the most recent one can be undone then redone, if necessary.

• Basic Editing Functions

- DIVIDE: Smallest edited unit is 11.6 mSec (or down to 1 frame).
- ERASE TRACK/ERASE DISC: Erase one track, or the whole disc.
- COMBINE: Combines two tracks together to make "one".
- MOVE: Changes a current track number to another.
- TRACK NAME: Can be entered using a keyboard or the front panel controls.
- DISC NAME: Can be entered using a keyboard or the front panel controls.

Other Features

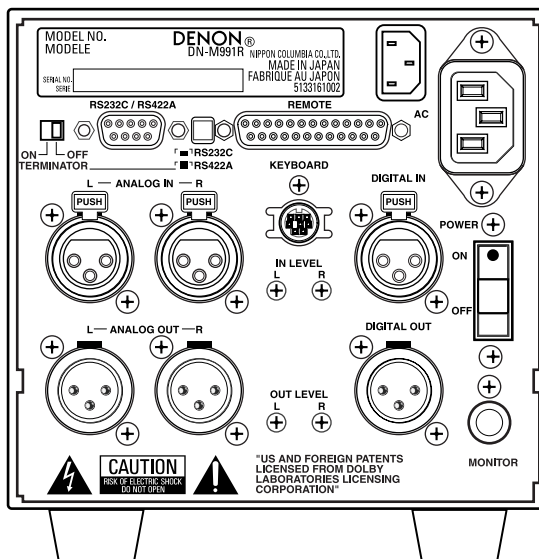
- Manual disc loading mechanism.
- Up to 3 machines will fit on a 19" rack tray.
- Optional RC-650 wired remote control.



Specifications

Type	MiniDisc Recorder
Audio Channels	2 channels
Recording	Stereo/Mono selectable
Playback System	Optical pick-up system
Recording System	Magneto-optical overwriting system
Signal Compression System	ATRAC (Adaptive Transform Acoustic Coding)
Rotating Speed	Approx. 400-900 rpm
Recording/Playback Time	74 min. (Stereo), 148 min. (Mono)
Quantization Bits	A/D converter: 16-bit, D/A converter: 18-bit
Sampling Frequency	44.1 kHz (Accepts 32 kHz & 48 kHz data)
Total Harmonic Distortion	0.012% or less (Playback, A filter) 0.02% or less (Recording, A filter)
S/N Ratio	92 dB or higher (Playback, A filter) 84 dB or higher (Recording, A filter)
Channel Separation	86 dB or higher (Playback) 80 dB or higher (Recording)
Frequency Response	20 Hz-20 kHz (± 1.0 dB)
Analog Outputs	
Transfer and Connector	Balanced (active), XLR connector
Output Level	+18 dBm, 600 ohm
Output Level Adj. Range	+22 dBm to -20 dBm
Pin Assignment	1: Common, 2: Hot, 3: Cold
(* Factory default is set as below. Swapping internal jumpers can change #2 to cold.)	
Headphone Output	1/4" stereo, on rear panel
Digital Output	
Transfer and Connector	XLR connector
Signal Format	AES/EBU
Output Level	3 Vp-p, 110 ohm
Analog Inputs	
Transfer and Connector	Balanced (active), XLR connector
Input Level Balanced	+18 dBm, 10 kohm
Digital Input	
Transfer and Connector	XLR connector
Signal Format	AES/EBU
Input Level	3 to 10 Vp-p, 110 ohm
Serial Remote	RS-232C/422A, D-Sub 9-pin
Parallel Remote	D-Sub 25-pin
Keyboard Terminal	IBM PC Compatible Mini Din, PS/2
Power Supply	AC120 V, 60 Hz
Power Consumption	27 W
Dimensions	144 (W) x 133 (H) x 427 (D) mm 5.7" (W) x 5.2" (H) x 16.8" (D) (without feet)
Weight	5.8 kg, 12.8 lbs.

Design and specifications are subject to change for improvement without notice.



DENON

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