

## Remarkable Sound from a Compact System

Building on the basic design of Denon's critically acclaimed D-M31 and D-M30, Denon engineers have continued to refine design details and parts through repeated tests in order to achieve an even higher level of sonic perfection. These engineers have also collaborated with European sound designers and technicians to develop a new speaker system that would faithfully deliver the improved sound quality from the D-M33, Denon's latest micro Hi-Fi system. The D-M33 not only plays CDs but a variety of other sources such as MP3 and WMA sound files as well, in the rich quality of sound that has made the Denon name so famous.



MP3 RDS RadioTEXT

### ■ The D-M33 inherits Denon technology from high-end models to faithfully reproduce the original sound.

Capacitors developed for high-quality audio have been used in the circuitry of the power amp that determines sound quality and in the D/A converter section that converts the digital signal from the CD into an analog signal. In addition, the D-M33's high-class separate components feature Burr-Brown D/A converters from Texas Instruments Inc. that are well known for their superior sonic performance. The converters faithfully preserve both the powerful dynamics and the delicate nuances of sound as they convert the CD's digital signals into analog form for the speakers.

### ■ MP3 and WMA playback

In addition to CD and radio sound sources, the D-M33 also plays MP3 and WMA files recorded on CD-R or CD-RW media. To play these discs, simply load it and push the Play button. You can also select a folder on the disc and just play the files in that folder. When a file is played, the artist name, song title, track number, album name and other information is displayed. Repeat or Random playback is also possible.

- S.D.B. (Super Dynamic Bass)
- Tone Controls (Bass, Treble)
- Source Direct Function
- 2 Sets of Analog Stereo Inputs and Analog Stereo Outputs
- MONO Output for Subwoofer
- Easy-to-Use Remote Control
- Headphone Jack
- A wealth of Playback Functions
- Optical Digital Output Jack for Direct Transmission of Digital Signals
- Auto Edit Function
- Radio TEXT with RDS function
- Everyday/Once/Sleep Timer

### ■ Hi-Fi Speaker system with the New European Tuning

The SC-M53 is a speaker system with high sound quality that has been newly tuned for the RCD-M33. The bass driver has an inverted-profile double layer cone. This one-piece design does not use a centre-cap and therefore provides greater rigidity across the surface of the bass cone.

#### • Newly-developed drive unit

As shown in figure 1, the driver uses an inverted-profile double layer cone. Detailed "finite element analysis" was used to find the optimum thickness on each part of the subcone and the best connection point between main cone and voice coil. This design controls the break-up modes of the cone for a more stable sound. Figure 2 shows an analysis of the woofer diaphragm at 1.4 kHz. Piston motion is uniform over the entire diaphragm even at this frequency which is high for a woofer. In addition, the secondary cone has not been bonded to the edge of the driver in order to optimize control over vibration to the outer perimeter. This design thoroughly minimizes influences on the secondary cone that actually emits the sound.

#### • Speaker cabinet

The speaker cabinet is constructed with MDF material. The acoustic design of the cabinet was optimized through laser scan measurements of vibration in the cabinet. The cabinet also features a white wood grain finish that is often used in northern European furniture. Careful attention has been given to the rear of the speakers as well, where higher quality 5-way binding terminals are featured.

#### • Network

An acoustic fourth order LCR filter has been used for the network to obtain optimum phase matching between the woofer and tweeter.

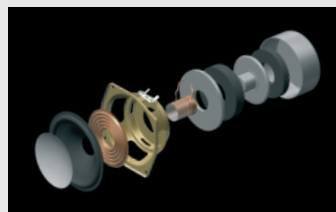


Figure 1 Newly-developed woofer unit

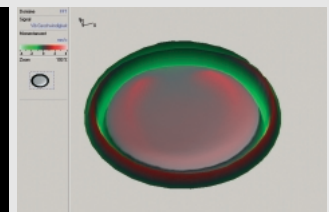


Figure 2 Woofer unit vibration

# D-M33

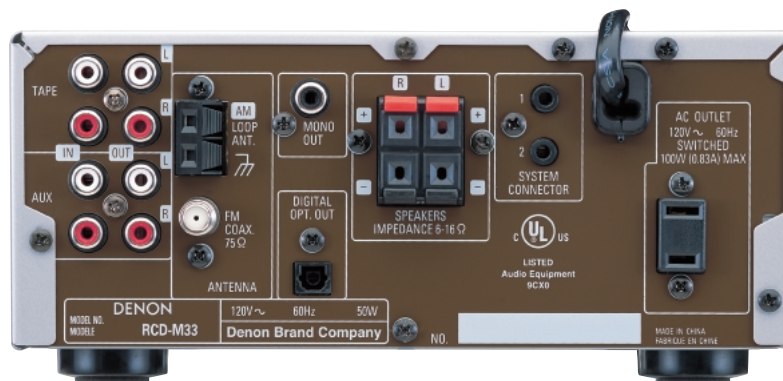
## Specifications

<b>RCD-M33</b>	
<b>Power output</b>	22W+22W (6ohms, 1kHz, THD10%)
<b>Input/Output</b>	2 sets of analog inputs and outputs MONO output for subwoofer Headphone
<b>Function</b>	Tone control (Bass, Treble) SDB Source direct function Timer (once, every, sleep) CD playback repeat, random mode
<b>Tuner</b>	FM 87.50MHz – 108.00MHz AM 550kHz – 1710kHz Preset (FM/AM) x 40
<b>General</b>	
Power supply	AC120V, 60Hz
Power consumption	50W
Dimensions	W 8 1/4" x H 3 11/16" x D 12 14/16" W 210 x H 95 x D 328 mm
Weight	9 lbs 8 oz 4.3kg

<b>SC-M53</b>	
<b>Type</b>	2way 2speakers
<b>Drivers</b>	120mm woofer 25mm soft dome tweeter
<b>Frequency response</b>	45Hz-40kHz
<b>Max power</b>	60W (IEC) 120W (PEAK)
<b>Impedance</b>	6 ohms
<b>Dimensions</b>	3.4kg/unit W5 1/2" x H 7 1/2" x D 9 13/16" mm
<b>Weight</b>	7 lbs 8 oz/unit 3.4kg/unit



Higher quality design extends to the rear as well.



\* Design and specifications are subject to change without notice.

\* "WMA" (Windows Media Audio) is a new audio codec developed by Microsoft® in the United States of America.

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