

DM-720

Business
DM-720

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Specifications

Recording formats

Linear PCM format / MP3 format

Sampling frequency

Linear PCM format	[48.0 kHz / 16 bit]: 48.0 kHz [44.1 kHz / 16 bit]: 44.1 kHz
MP3 format	[320 kbps]: 44.1 kHz [128 kbps]: 44.1 kHz [64 kbps (mono)]: 44.1 kHz [8 kbps (mono)]: 11.025 kHz

Maximum headphone output

Recorder: ≤ 150 mV (according to EN 50332-2)

Recording media

Built-in NAND flash memory	4 GB
microSD card	Supports 2GB to 32GB

Some recording media memory capacity is used as a management area, so the actual usable capacity will always be slightly less than the displayed capacity.

Speaker



Built-in Ø18mm dynamic speaker

Maximum working output: 150mW (8Ω speaker)

Microphone Jack

Ø3.5mm, impedance 2kΩ

Earphone Jack

Ø3.5mm, impedance 8Ω minimum

Power source

Specified voltage	1.5 V
Battery	AAA dry-cell battery x1 (LR03) or Ni-MH rechargeable battery x1
External power supply	USB Connecting AC Adapter (model A514; DC5V)

External dimensions

105.9 × 39.6 × 14.4 mm

Not including largest projection

Weight

72g

including battery


Operating temperature

0 to 42°C (32 to 107.6°F)

Frequency response

When recording from microphone jack

Linear PCM format	[48.0 kHz / 16 bit]: 20 Hz - 23 kHz [44.1 kHz / 16 bit]: 20 Hz - 21 kHz
MP3 format	[320 kbps]: 20 Hz - 21 kHz [128 kbps]: 20 Hz - 17 kHz



[64 kbps (mono)]: 20 Hz - 13 kHz
 [8 kbps (mono)]: 20 Hz - 3.5 kHz

When recording with built-in microphone

Recording (centre microphone ON)	20 Hz - 20 kHz
Recording (centre microphone OFF)	60 Hz - 20 kHz

Frequency response upper limit is set by recording mode during MP3-format recording.

During playback

20 Hz - 20 kHz

The upper and lower limit values of the frequency response depend on each recording format.

Battery life

When recording with built-in stereo microphone (using internal memory)

Recording mode		Alkaline dry cell battery	Nickel-metal hydride rechargeable battery
Linear PCM format	48.0 kHz / 16 bit	26 hours (approx.)	20 hours (approx.)
	44.1 kHz / 16 bit	28 hours (approx.)	21 hours (approx.)
MP3 format	320 kbps	31 hours (approx.)	22 hours (approx.)
	128 kbps	35 hours (approx.)	25 hours (approx.)
	64 kbps mono	39 hours (approx.)	28 hours (approx.)
	8 kbps mono	52 hours (approx.)	38 hours (approx.)

The battery life figures shown here were determined using an Olympus test method (When [Mic Select] is set to [Central Mic Off], and [LED] is set to [Off]). Actual battery life figures will vary greatly according to the battery used and usage conditions (Changing the playback speed or using the [Zoom Mic], [Noise Cancel] and [Voice Balancer] functions may affect the battery life).

Battery life will be shorter when using a nickel-metal hydride rechargeable battery that has been used repeatedly.

Battery life will be shorter when using a microSD card.

During audio file playback (all playback modes)

During speaker playback

Recording mode		Alkaline dry cell battery	Nickel-metal hydride rechargeable battery
Linear PCM format	48.0 kHz / 16 bit	13 hours (approx.)	11 hours (approx.)

Recording mode		Alkaline dry cell battery	Nickel-metal hydride rechargeable battery
	44.1 kHz / 16 bit	13 hours (approx.)	11 hours (approx.)
MP3 format	320 kbps	13 hours (approx.)	11 hours (approx.)
	128 kbps	13 hours (approx.)	11 hours (approx.)
	64 kbps mono	13 hours (approx.)	11 hours (approx.)
	8 kbps mono	13 hours (approx.)	11 hours (approx.)

The battery life figures shown here were determined using an Olympus test method (When [Mic Select] is set to [Central Mic Off], and [LED] is set to [Off]). Actual battery life figures will vary greatly according to the battery used and usage conditions (Changing the playback speed or using the [Zoom Mic], [Noise Cancel] and [Voice Balancer] functions may affect the battery life).

Battery life will be shorter when using a nickel-metal hydride rechargeable battery that has been used repeatedly.

Battery life will be shorter when using a microSD card.

During earphone playback

Recording mode		Alkaline dry cell battery	Nickel-metal hydride rechargeable battery
Linear PCM format	48.0 kHz / 16 bit	26 hours (approx.)	20 hours (approx.)
	44.1 kHz / 16 bit	28 hours (approx.)	21 hours (approx.)
MP3 format	320 kbps	30 hours (approx.)	22 hours (approx.)
	128 kbps	30 hours (approx.)	22 hours (approx.)
	64 kbps mono	31 hours (approx.)	22 hours (approx.)
	8 kbps mono	35 hours (approx.)	25 hours (approx.)

The battery life figures shown here were determined using an Olympus test method (When [Mic Select] is set to [Central Mic Off], and [LED] is set to [Off]). Actual battery life figures will vary greatly according to the battery used and usage conditions (Changing the playback speed or using the [Zoom Mic], [Noise Cancel] and [Voice Balancer] functions may affect the battery life).

Battery life will be shorter when using a nickel-metal hydride rechargeable battery that has been used repeatedly.

Battery life will be shorter when using a microSD card.

Recording time

Linear PCM format

Recording mode		Recording mode	
		48.0 kHz/16 bit	44.1 kHz/16 bit
Internal memory	4 GB	5 hours (approx.)	5 hours, 30 minutes (approx.)

microSD card	32 GB	44 hours (approx.)	48 hours (approx.)
	16 GB	22 hours (approx.)	23 hours, 30 minutes (approx.)
	8 GB	11 hours (approx.)	11 hours, 30 minutes (approx.)

MP3 format

Recording mode		Recording mode			
		320 kbps	128 kbps	64 kbps mono	8 kbps mono
Internal memory	4 GB	24 hours, 30minutes (approx.)	61 hours (approx.)	123 hours (approx.)	985 hours (approx.)
microSD card	32 GB	212 hours (approx.)	530 hours (approx.)	1060 hours (approx.)	8480 hours (approx.)
	16 GB	105 hours (approx.)	264 hours (approx.)	525 hours (approx.)	4220 hours (approx.)
	8 GB	52 hours (approx.)	132 hours (approx.)	264 hours (approx.)	2110 hours (approx.)

Actually available recording times may be shorter than the figures shown here when making short recordings repeatedly (Equipment displays of available/elapsed recording times should be considered guideline values).

Available recording time will also vary due to differences in the available memory capacity of different microSD cards.

Maximum recording time per file

Recording mode		Recording time
Linear PCM format	48.0 kHz/16 bit	3 hours (approx.)
	44.1 kHz/16 bit	3 hours, 20 minutes (approx.)
MP3 format	320 kbps	29 hours, 40 minutes (approx.)
	128 kbps	74 hours, 30 minutes (approx.)
	64 kbps mono	149 hours (approx.)
	8 kbps mono	1193 hours (approx.)

*The maximum file size is limited to about 4GB in the MP3 format, and to about 2 GB in the linear PCM (WAV) format.

*Regardless of the amount of remaining memory, the maximum recording time per file is restricted to the following values.

Number of music tracks (songs) that can be recorded



Internal memory (4 GB)

900 tracks (approx.)
At 128 kbps, 4 minutes per track

*Note that recorder specifications and appearance are subject to change without prior notice for performance improvements or other upgrading.

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