MZ-M200 Hi-MD Recorder

SONY.

Hi·MD

Hi-MD Media
The First Choice in Alternative Media.

Sony Hi-MD® media is the flexible, durable, rewritable media alternative that produces CD quality sound, yet it is one of the least expensive high-capacity dedicated audio media available. Sony's 1 GB Hi-MD disc provides up to 34 hours of compressed audio recording time in ATRAC3plus™ mode or over 1 1/2 hours of recording time of Linear PCM digital recording for the ultimate in recording quality. Hi-MD media is PC and Macintosh® compatible, and as a storage media for computer data, also stores images and text files.

RECORDING MODES ON THE RECORDER AND RECORDING TIME

		Recording Time			Upload by USB		Download by USB	
Codec	*Record Mode*	*Bit Rate*	*1 GB Hi-MD Disc*	*80 Min. MD Disc*	*PC (*1)*	*Macintosh (*2)*	*PC (*1)*	*Macintosh (*2)*
Linear PCM	PCM	1.4Mbps	1 Hr. 34 Min.	28 Min.	•	•	•	•
ATRAC3plus	Hi-SP	256kbps	7 Hr. 55 Min.	2 Hr. 20 Min.	•	•	•	NA
ATRAC3plus	Hi-LP	64kbps	34 Hr. 00 Min.	10 Hr. 10 Min.	•	•	•	NA
ATRAC	SP	292kbps	NA	1 Hr. 20 Min.	•	NA	•	NA
ATRAC3	LP2	132kbps	NA	2 Hr. 40 Min.	•	NA	•	NA
ATRAC3	LP4	66kbps	NA	5 Hr. 20 Min.	•	NA	•	NA

*1 For Windows User: Upload and Download Using Sonic Stage Software (supplied)
*2 For Macintosh User: Upload Hi-MD Recordings Using Hi-MD Music Transfer Software (supplied)
   Linear PCM and MP3 Download from Macintosh to the Hi-MD Recorder is planned to be available as a software update in Summer 2006

Supplied Accessories

1 Line Backlit Remote
RM-MC38EL

Stereo Mic
ECM-DS70P

Earbud Headphones
MDR-E0931

Accessories

MZ-M200 Hi-MD Recorder
Taking Hi-MD to a Higher Level

With a proven track record of delivering superb quality, technology and performance, Sony pro audio products can exceed the expectations of the most demanding audio professionals, and Sony's Hi-MD recorders are no exception. With Sony's new MZ-M200 Hi-MD recorder, the successor model to the MZ-M100 Hi-MD recorder, Sony takes Hi-MD to a higher level with the introduction of more intuitive recording features, easier navigation, and a more ergonomic design – while delivering the same high-quality CD sound and the convenience of recording on the MD format. The MZ-M200 model is the ideal field recorder for radio journalists, musicians, songwriters, and all types of pro-audio applications. This next generation recorder is now Macintosh® compatible and comes equipped for the field with a stereo microphone, earbud headphones, 1-line backlit remote control unit, USB uploading software, a rechargeable battery, a carrying pouch, an AC power adaptor and a 1GB Hi-MD disc.

Features:

Bright Organic EL (Electro Luminescent) Display – Shows current status of recording and playback features including recording levels, mode, battery power, etc.

Ability to Record from Multiple Sources (Mic/Line-in) – Use the line-in jack to transfer and archive legacy formats such as tapes to low cost 1GB Hi-MD media or use the microphone input for self-recordings or field interviews. Choose a maximum recording time of up to 34 hours or up to 1 1/2 hours of uncompressed/lossless quality depending on specific needs.

11 Segment Recording Level Meter Display – Provides a visual check to easily monitor your recording levels from your microphone or line input.

Dynamic Normalizer – Provides a uniform volume level for tracks that may have been recorded at different volume levels on the same disc, eliminating the need to adjust the volume of each track.

Self-recording Upload Feature – When transferring a Hi-MD recording to a computer, you'll have the option to save in .WAV format in a designated folder on your hard drive, providing you with the flexibility to import the files into almost any application where you can edit and process the recordings.

2-Way Power Supply – Battery can be fully charged from USB to computer or from the AC adaptor.

Compatible with both Hi-MD and Standard MiniDisc Media – Hi-MD recorders are backward compatible with the MD media. In Hi-MD recording mode, you can store up to 34 hours of audio on the supplied Hi-MD disc and up to 10 hours of audio on a standard MD disc.

Data File Storage – Allows you to store and transfer presentations, documents, spreadsheets and photos.

Conventional MD USB Upload – Allows uploading MD content via USB to your PC (excluding content transferred from the PC in Net MD mode or contents purchased through EMD services). Plus you can make MD recordings that can be played back on MD decks.

Mac Upload – Allows you to upload Hi-MD self-recording content from a Hi-MD media to a Macintosh computer.

Mac Download[1] – Allows you to download Hi-MD self-recording content from a Macintosh computer to a Hi-MD disc.

Clock Stamping – A built-in clock registers the date and time of recordings. Date and time appear as titles when content is uploaded to a PC or Macintosh.

MZ-M200
EL Display –
Convenient EL display for easier navigation.

The operational layout of the MZ-M200 has been designed for easier navigation than its predecessor. Buttons are enlarged for easier operation, recording keys are positioned for more intuitive handling, and more recording and playback features are displayed on the EL display.

MZ-M200
Features –
More recording and playback statuses displayed.

Note: *The displays above are illuminated for illustration purposes. When unit is in actual use, all displays will not be illuminated at the same time.*

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LinearPCM RECORDING   **WALKMAN**

Spectrum Indicator – Displays audio spectrum during playback.

Manual REC Setting – Unit can stay in the AGC (Automatic Gain Control) disabled state.

Digital Pitch Control – Slows down or speeds up playback –50 to +100.

Record and Playback Uncompressed Linear PCM Audio – Use the microphone and line-in feature to record and playback in uncompressed PCM format. This lossless format is perfect for self-recordings, field interviews, and archiving existing legacy formats.

Record and Playback ATRAC3plus™ Audio – Use the microphone and line-in feature to record and playback in compressed ATRAC3plus 64Kbps (Hi-LP) or 256Kbps (Hi-SP) formats. Sony's ATRAC3plus format provides higher sound quality with smaller file sizes than many competing formats.

USB 2.0 – New USB 2.0 technology allows you to transfer your audio directly from your PC to your Hi-MD recorder faster than previous Hi-MD models.

Supports .WAV Audio Format with Conversion Software – Linear PCM and Hi-MD recordings can be uploaded onto PC or Macintosh computers and stored in .WAV file format.

Archive Data with Low Cost, 1GB Removable Hi-MD Media – At just a few dollars a disc compared to the cost of other popular data storage media devices, 1 GB Hi-MD media is an extremely cost effective format.

Skip-Free G-Protection™[2] Technology – Hi-MD recorders come equipped with Skip-Free G-Protection technology, which provides virtually uninterrupted playback of your audio.

[1] Requires software upgrage, available Summer, 2006
[2] Reduces or eliminates skipping during many active uses.

Specifications

MZ-M200 Hi-MD Recorder

General Specifications	
Format	Digital Audio MiniDisc System
Sampling Frequency	44.1 kHz
Data Compression Method (Coding)	ATRAC® (Adaptive Transform Acoustic Coding)/ATRAC3®/ATRAC3plus®
Frequency Response	20-20,000Hz /-3dB
Wow and Flutter	Unmeasurable
Inputs(s)	USB2.0; Mic in; Line in (Analog/Digital); DC in 5V
Output(s)	Headphones/Line out/Remote (stereo mini)
Power Requirements	Lithium Ion Rechargeable Battery; AC Power Adapter; USB powered

Codec	
Linear PCM (REC/PLAYBACK)	•
ATRAC3plus (REC/PLAYBACK)	•
ATRAC3 (REC/PLAYBACK)	•
ATRAC (REC/PLAYBACK)	•
MP3 (PLAYBACK)	•

WAV Conversion	
For Windows (Using SonicStage)	•
For Mac (Using Hi-MD Music Transfer Software)	•

Interface	
MIC in	•
Line in (Analog/Digital)	•
USB2.0	•

Main Recording Function	
Mic Sense Low/High	•
Manual Rec Level Control	•
Time Mark Off/1-60min	•
Synchro Rec On/Off	•
AGC-Auto Gain Control	•
Sampling Rate Converter	•
Optical input 32kHz/44.1kHz/48kHz	•

Main Edit Function	
Name (Disc/Group/Track)	•
Move (Track/Group)	•
Track Mark On/Off (Divide/Combine)	•
Erase (Track/All/Group)	•
Disc Format	•

Other Main Features	
Skip Free G-Protection Technology	•
USB Bus Power & Charging	•
HD Digital AMP	•
For Macintosh and PC Data File Storage Device	•
Display	Organic EL

Battery Life (with rechargeable battery)	
Playback	
Linear PCM	10.0 hours
Hi-SP	15.5 hours
Hi-LP	19.0 hours
Record	
Linear PCM	6.0 hours
Hi-SP	9.0 hours
Hi-LP	10.5 hours

Size & Weight	
Size	3 3/8 (W) x 3 3/8 (H) x 19/32 (D) inches (83.8 (W) x 84.4 (H) x 14.7 (D) mm)
Weight	3.4oz (96g)

Supplied Accessories	
Li-ion Rechargeable Battery	LIP-4WM
1-Line Backlit Remote	RM-MC38EL
Carrying Pouch	•
Headphone	MDR-E0931
AC Adaptor	AC-S508U
SonicStage Software (for Windows)	•
Hi-MD Music Transfer Software (for Macintosh)	•
USB Cable	•
1GB Blank Hi-MD Disc	x1
Stereo Mic	ECM-DS70P

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CERTIFIED USB   **Hi-MD**