

ZOOM®



H2next

Handy Recorder

Quick Guide

You must read the Usage and Safety Precautions before use.



The Operation Manual can be downloaded from the ZOOM website (www.zoom.jp/docs/h2n).

This page has files in PDF and ePub formats.

The PDF file format is suitable for printing on paper and reading on a computer.

The ePub format can be read with electronic document readers and is designed for reading on smartphones and tablets.

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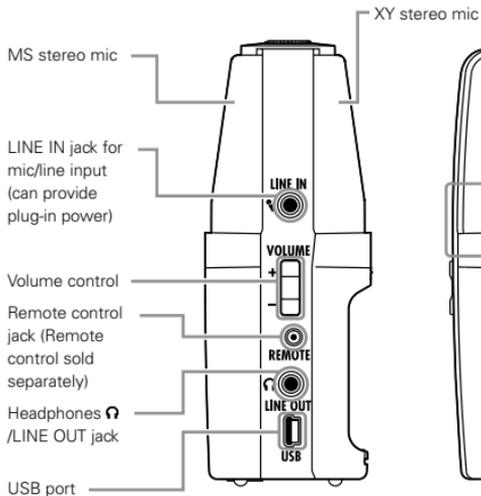
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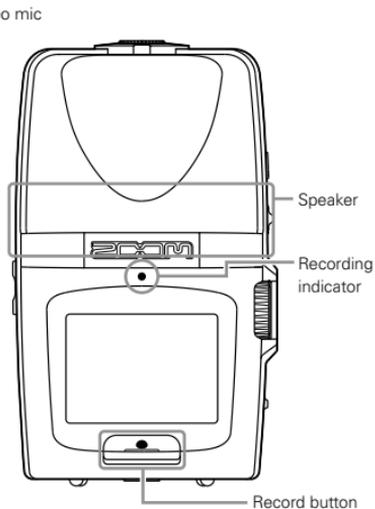
You might need this manual in the future. Always keep it in a place where you can access it easily. The contents of this manual and the specifications of the product could be changed without notice.

Part names

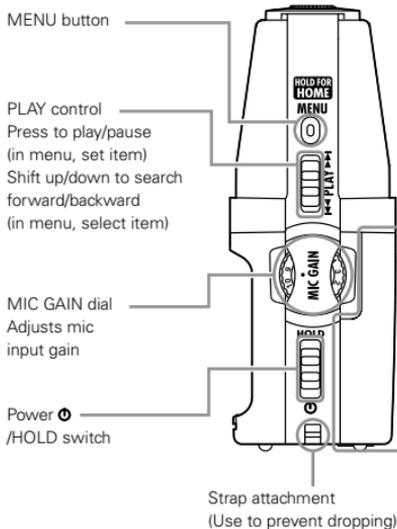
Left side



Front



Right side

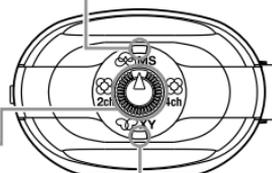


Top

MS mic indicator Lights
when the
MS mic (rear) is ON.
Flashes when the input
signal is distorting.

Recording mode
selection dial

XY mic indicator Lights when
the XY mic (front) is ON.
Flashes when the input signal is
distorting.



Bottom

Battery
compartment
cover

SD card slot cover

Tripod mounting socket



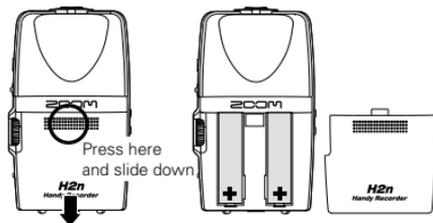
Powering the recorder

Using batteries

1. Turn the power OFF, and then remove the battery cover.

2. Insert batteries.

3. Close the cover.



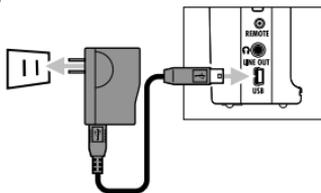
NOTE

- Use alkaline or nickel-metal hydride batteries.
- If the “Low battery!” warning appears, turn the power OFF soon and put in new batteries.
- Use MENU > SYSTEM > BATTERY TYPE to set the type of battery so that the amount of remaining battery charge can be shown accurately.



Using an AC adapter (sold separately)

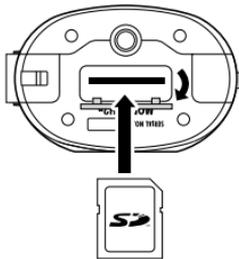
1. Connect the cable to the USB port.
2. Plug the adapter into a power outlet.



Installing an SD card

1. After turning the power OFF, open the SD card slot cover.
2. Insert the card into the slot.

To remove a card, push it further into the slot and then pull it out.



NOTE

- Be sure to insert the SD card correctly, using the cut-off corner illustration next to the slot as a guide.
- The built-in memory will be used if no SD card is in the recorder.
- Before using SD cards that have just been purchased or that have been formatted on a computer, they must be formatted by the **H2n**. To format an SD card, use MENU > SD CARD > FORMAT.

HINT

Built-in memory

- The built-in memory only keeps the most recent recording.
- The recording format is fixed at 96kbps MP3.
- It cannot be used to record in 4ch surround or MS-RAW modes.
- Recording time is limited to 1 minute.
- Recordings saved to the built-in memory cannot be copied to an SD card or a computer.

Turning the power ON and OFF

Turning the power ON

- Slide  down.

NOTE

- If “No SD card!” appears, confirm that an SD card is correctly inserted into the recorder.
- If “Card Protected” appears, SD card write protection is ON. Turn write protection OFF by sliding the “Lock” switch on the card.
- If “Invalid card” appears, the card format is incorrect. Use a different card or format the card.



Turning the power OFF

- Slide  down and hold it until “Goodbye see you!” appears on the screen.

HINT

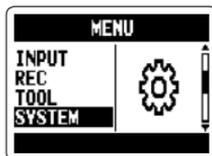
Slide  toward HOLD to disable the keys and prevent misoperation during recording.



Setting the date and time

The date and time is added to recording files automatically, so set it correctly whenever the batteries are replaced.

1. Press  .



2. Use  to select SYSTEM, and then press  .



3. Use  to select DATE/TIME, and then press  .



4. Adjust the settings.

Use  to move the cursor

Press  to select the item

Use  to change the value

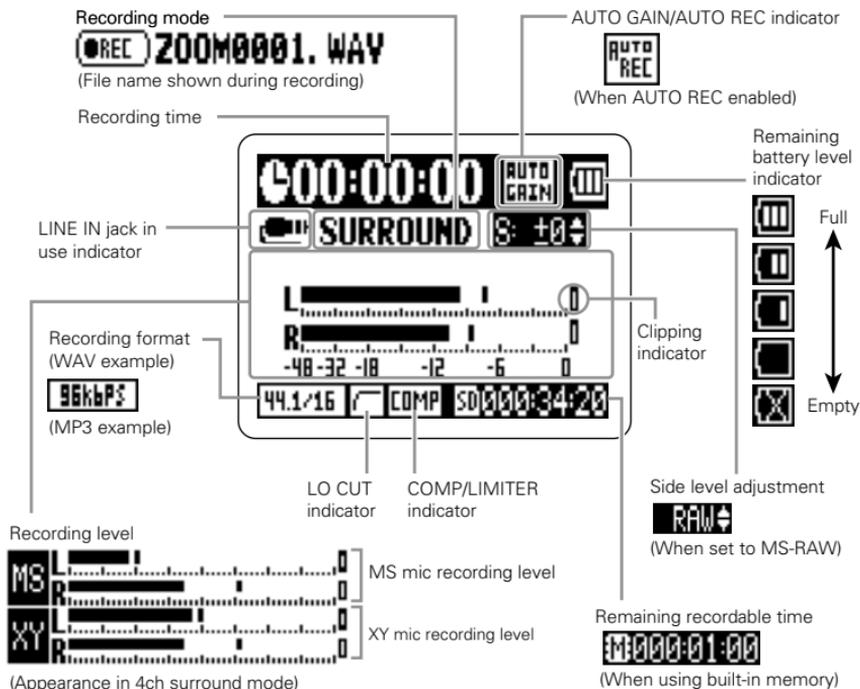
Press  to confirm the setting

5. Use  to select OK, and then press  .

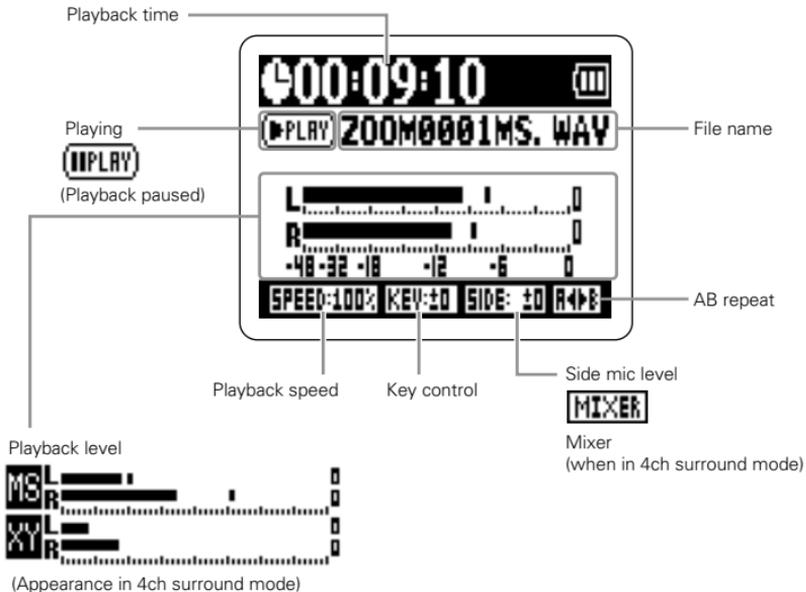


Display

Home (recording) screen



Playback screen



Recording mode overview

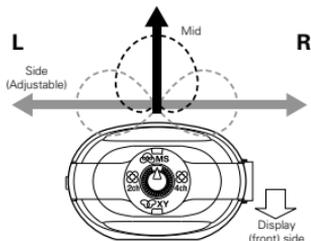
The **H2n** has four recording modes that can be selected according to your purposes.

Mid-side (MS) stereo mode

This mode uses a mid mic to capture the sound directly ahead and a bidirectional side mic to capture sound from left and right.

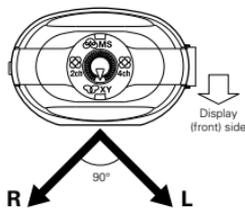
The recording level of the side mic (S level) can be adjusted, allowing the stereo width to be changed. If you record with the S level set to MS-RAW, you can also adjust the S level after recording.

MS mics can capture a rich stereo image, so it is ideal for recording sounds in wide and open conditions, including orchestras, live concerts and soundscapes.



XY stereo mode

This mode records in stereo with mics at 90° angles. This allows a natural, deep and accurate sound image to be captured, making it optimal for recording sources nearby, including solo performances, chamber music, interviews, live rehearsals and field recordings.



2ch and 4ch surround modes

2ch

4ch

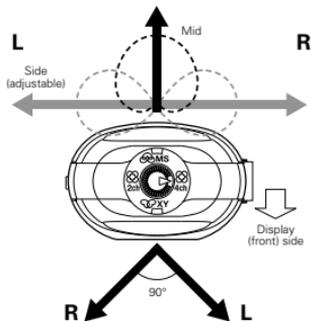
Sound can be captured in all directions using both MS and XY mics.

You can select 2ch, which mixes the signals from the MS and XY mics, or 4ch, which records the signals from the MS and XY mics separately.

With 4ch surround, you can adjust the balance between the MS and XY signals after recording.

The S level can be adjusted for both 2ch and 4ch recordings.

These modes are suitable for recording live rehearsals, studio sessions, business meetings and soundscapes, for example.



Selecting the recording mode

1. Turn  so that the triangle points to the desired mode.

NOTE

- The 4ch surround mode can only be used when an SD card is in the unit.
- In 4ch surround mode, only WAV formats (44.1/48kHz, 16/24bit) can be used.
- In 4ch surround mode, two stereo files are created (MS mic recording and XY mic recording).

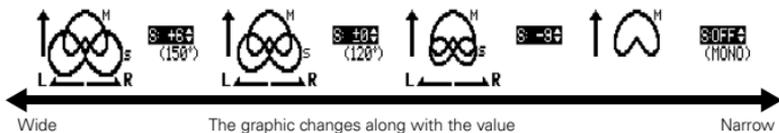


2. Make settings for the recording mode.

Adjusting the S level (MS stereo, 2ch/4ch surround modes)

You can adjust the stereo width (S level) before recording.

1. Use  to adjust the stereo width.



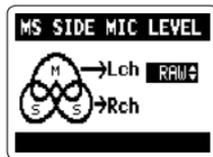
NOTE

Set to OFF or between -24 and $+6$ dB.

Using MS-RAW mode (MS stereo mode/WAV format only)

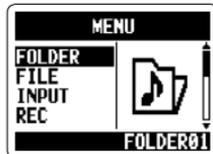
If you want to adjust the stereo width after recording, record using MS-RAW mode.

1. Hold  down until RAW appears.



Selecting where recordings are saved

1. Press  .
2. Use  to select FOLDER, and then press  .
3. Use  to select the folder where you want to save files, and then press  .



NOTE

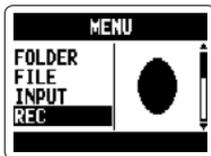
Select from among 10 folders. There are separate sets of folders for stereo and 4ch recordings.

Setting the recording format

You can set the recording format according to your sound quality and file size needs.

1. Press  .

2. Use  to select REC, and then press  .



3. Use  to select REC FORMAT, and then press  .

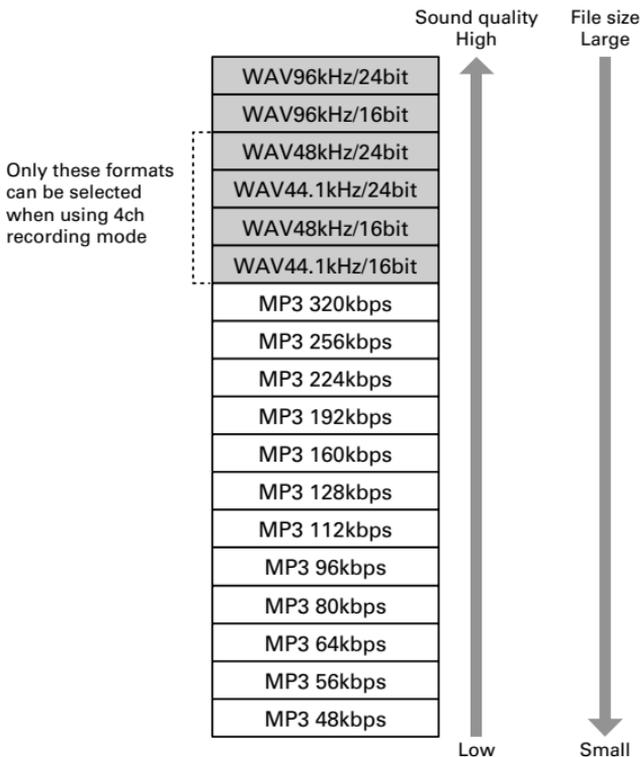


4. Use  to select the recording format, and then press  .

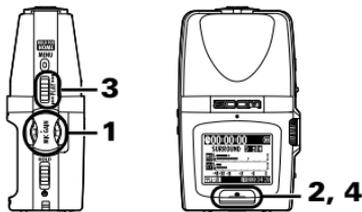


NOTE

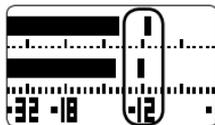
- Use WAV formats for higher audio quality.
- Use MP3 formats, which are compressed and have much smaller file sizes, to save space on the SD card. Beware, however, that MP3 compression reduces audio quality.



Recording manually



- 1.** Turn  to adjust the input level.



HINT

- Adjust the MIC GAIN so that the peak level stays around -12 dB.
- If an input signal is too strong, the MS/XY indicator on the top will flash immediately.

- 2.** Press  to start recording.

- 3.** Press  to add a mark.

- 4.** Press  to stop recording.

NOTE

- One file can have a maximum of 99 marks.
- During recording, if the size of the file exceeds 2 GB, recording will continue in a new file that will be created automatically.

Playing back recordings

You can play files in the current folder. Change the folder to play files in a different folder.

1. Press .

Use  to jump between marks and files

Hold  to search forward or backward

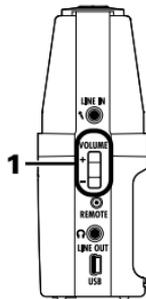
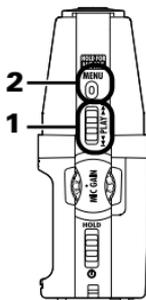
Press  to pause and restart playback

Use  to adjust the volume

HINT

The longer you hold the PLAY control the faster it will search in that direction.

2. Press and hold  to return to the home screen.



Specifications

Recording media	16MB–2GB SD cards, 4GB–32GB SDHC cards (Cards that can be used with this recorder are to be verified individually)	
Built-in memory	Can be used to record up to 1 minute in 96 kbps MP3 format (recording to this memory overwrites any previous recording in it)	
Recording	Mic arrangements	MS stereo with adjustable side mic level 90° XY stereo
	Modes	MS, XY, MS+XY (stereo) and MS+XY (4ch)
Microphones	Types	Directional (XY, MS mid mics) Bidirectional (MS side mic)
	Maximum sound pressure input	120 dB spl (directional) 122 dB spl (bidirectional)
File formats	<u>Stereo</u>	
	Uncompressed PCM	44.1/48/96kHz, 16/24bit WAV (BWF)
	Compressed MP3 (recording)	44.1kHz, 48/56/64/80/96/112/128/160/192/224/256/320kbps (Not compatible with MS-RAW recording)
	Compressed MP3 (playback)	44.1/48kHz, 32/40/48/56/64/80/96/112/128/160/192/224/256/320kbps
	<u>4ch</u>	
	Uncompressed PCM	44.1/48kHz, 16/24bit WAV (BWF) Two stereo files for each recording
Digital processing	A/D conversion	24-bit 128x oversampling
	D/A conversion	24-bit 128x oversampling
	Signal processing	32-bit
Recording time	2GB card example	3:08:00 (44.1kHz/16bit WAV)
		34:43:00 (128kbps MP3)
Features	LO CUT	80Hz high-pass filter
	COMP/LIMITER	3 types of compressors and 3 types of limiters
	AUTO GAIN	Automatic input gain adjustment
	PRE REC	2 seconds of pre-recording
	AUTO REC	Automatic recording start/stop, continuous standby
	TUNER	Chromatic, guitar, bass and alternate (A/E/G/D/DADGAD) tunings with automatic string detection
	METRONOME	40–250 BPM range, five tones, pre-count
SPEED	Playback speed adjustable between 50–150%	

Features	KEY CONTROL	Playback pitch adjustable ± 6 semitones (cannot be used with 96kHz files)
	AB REPEAT	Repeats playback between selected points in a file
	FILE DIVIDE	Divides a file into two
	FILE NORMALIZE	Maximizes file volume (cannot be used with MP3s)
	FILE MP3 ENCODE	WAV files can be converted to MP3 formats at fixed bit rates
	MARK	Up to 99 marks can be added as desired when recording WAV files
	SURROUND MIXER	Mix balance can be adjusted when playing back 4ch surround recordings
Display	Graphic LCD (128x64 pixels) with backlight	
Input gain	0 to +39 dB	
Input jack	Line/mic stereo mini jack can supply plug-in power 2 k Ω impedance at input levels of 0 to -39 dBm	
Output jack	Line/headphone stereo mini jack Rated output level: -10 dBm (output impedance 10 k Ω or more) Headphones: 20 mW + 20 mW (into 32 Ω load)	
Built-in speaker	400mW, 8 Ω , mono	
USB	Mini-B type Card reader operation USB 2.0 High Speed Audio interface operation USB 1.0 Full Speed Supports 44.1/48kHz sampling rates and 16-bit rate Note: Use a USB cable that supports data transfer. Bus power operation supported	
Power	AD-17 USB to AC adapter (DC 5V 1A), operates using two AA batteries Continuous operation of 20 or more hours when recording 44.1kHz/16-bit WAV files using alkaline batteries	
Physical features	Tripod mounting socket, strap attachment Dimensions (mm): 67.6 (W) \times 113.85 (H) \times 42.7 (D) Weight: 130 g (without batteries)	

* Recording concerts and public performances, for example, without permission from rights holders is prohibited by law.

* Product specifications and appearance might be changed for the purpose of improvement without warning.

* 0 dBm = 0.775 Vrms

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