Handy Recorder

H1n

Quick Guide

You must read the Usage and Safety Precautions before use.

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

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Preparations

1. Remove the battery cover and insert batteries.

   ![Slide down while pressing]

   HINT
   An AD-17 AC adapter, which is designed for this unit, can also be used.

2. Open the SD card slot cover, and insert a microSD card.

3. Slide \( \text{HOLD} \) to turn the power on.

   HINT
   Misoperation during recording can be prevented by sliding \( \text{HOLD} \) to-ward \( \text{HOLD} \) to disable button use.

4. Set the language shown.
   Select the language: Press \( \uparrow \) or \( \downarrow \)
   Confirm: Press \( \checkmark \)

5. Set the date and time.
   Move the cursor: Press \( \leftarrow \) or \( \rightarrow \)
   Change the value: Press \( \downarrow \) or \( \uparrow \)
   Confirm: Press \( \checkmark \)

   HINT
   The language and date and time can be changed later using the Settings screen. Turn the power on while pressing \( \text{HOLD} \) on the side of the recorder to open the Settings screen.
Recording

1. Turn to adjust the input level.
   If you want the level to be adjusted automatically, press to turn on automatic level adjustment (Auto Level).

   **NOTE**
   To change the setting, press the same key again while the parameter appears enlarged.

   **HINT**
   - When adjusting manually, set it so that the peak level stays around –12dB.
   - If the REC LED is blinking, the sound could be distorted, so lower the input level.

2. Make recording settings.
   - Recording format (Rec Format): Press
     The MP3 format compresses data, so the sound quality is lower than WAV format, but it also uses less SD card space. Higher values provide better audio quality in both WAV and MP3 formats.

   **HINT**
   - Low-cut filter (Lo Cut): Press
     This can reduce the sound of wind and vocal pop noise.
   - Limiter: Press
     This prevents clipping caused by sudden loud noises.

3. Press to start recording.

4. Control recording.
   - Add a mark: Press
     If marks are added, their positions can be jumped to during playback.
   - Pause/resume recording: Press
     Marks are added automatically when recording is paused.

5. Press to stop recording.
Using additional recording functions

■ Other recording settings
While pressing (■), press the following buttons to change the related settings.

- Automatic recording (Auto Rec): Press \textit{AUTO REC}
  After pressing (○), recording will start automatically when the input level exceeds the set value.

- Pre-recording (Pre Rec): Press \textit{PRE REC}
  Recording can be started about two seconds before (○) is pressed.

- Self Timer: Press \textit{SELF TIMER}
  After pressing (○), recording starts automatically when the set time passes.

- Sound Marker: Press \textit{SOUND MARKER}
  This inputs a tone signal when recording starts and stops, making it easier to align video and audio.

■ Overdubbing
You can record over a file as it is playing back and save it as a new file.
After pressing (\textless\textless or \textgreater\textgreater) to select the file, press (○) while pressing (\textright\textright).

■ Playing test tones
You can play a test tone for adjusting the level of connected equipment.
While pressing (■), press (\textright\textright).
Press (■) again to stop the tone.

■ Monitoring recording
Connect headphones to the PHONE/LINE OUT jack, and press (++) and (--) to adjust the volume.

■ Using an external mic
Connect an external mic to the MIC/LINE IN jack. This can provide plug-in power.
Playing recordings

1. Press ◄ and ► to select the file for playback.
2. Press ▶ to start playback.
3. Control playback.

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<th>Action</th>
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4. Press ■ to stop playback.
Using additional playback functions

- Setting the Play Mode
  On the playback screen, press \[\text{MODE}\] to open the Play Mode screen. Use the following buttons for functions that are useful for listening to and transcribing passages.
  - Speed: Press \[\text{SPEED}\]
  - Sound Effect: Press \[\text{SOUND}\]
    This applies an effect to playback to change the sound.
  - Repeat playback of a set interval (between A and B points): Press \[\text{R-B}\] at the starting point (A), and then press \[\text{R-B}\] at the ending point (B)
    Press \[\text{R-B}\] again to stop repeat playback between the A and B points.
  - Adjust the playback position by small amounts: Press \[\text{[}][\text{]}\] to skip 10 seconds forward and press \[\text{[}][\text{]}\] to skip 3 seconds backward
  - Return to the playback screen: Press \[\text{[}][\text{]}\]

Using USB functions

1. Use a USB cable to connect to a computer or iOS device.

2. Select the function to use.
   - Move the cursor: Press \[\text{[}][\text{]}\] or \[\text{[}][\text{]}\]
   - Confirm: Press \[\text{[}][\text{]}\]

- Card reader
  You can use a computer to exchange data with the \(\text{H1n}\).
  To disconnect the \(\text{H1n}\), end the connection on the computer first, and then press \[\text{EXIT}\]
■ Audio interface

H1n input signals can be sent directly to a computer or iOS device, and playback signals from that computer or device can be output from the H1n.

1. Set the type of device used.
   Move the cursor: Press ▲ or ▼
   Confirm: Press ▶

   NOTE
   After selecting "iOS", follow the instructions on screen and disconnect the cable once. Then, select "iOS" again and reconnect the cable.

2. Set the power source used.
   Move the cursor: Press ▲ or ▼
   Confirm: Press ▶

3. To set direct monitoring, press DIRECT while pressing ▼. This enables monitoring without latency by directly outputting the H1n input signal before sending it to the computer or iOS device.

   To disconnect the H1n, press EXIT while pressing ▼.

Specifications

Recording media: microSD/microSDHC cards (Class 4 or higher, up to 32 GB)
Recording formats:
- WAV: 44.1 kHz/16-bit, 48 kHz/16-bit, 48 kHz/24-bit, 96 kHz/24-bit
- MP3: 48 kbps, 128 kbps, 192 kbps, 256 kbps, 320 kbps

Display: 1.25" monochrome LCD (96×64) with REC LED (red)
Inputs:
- Built-in mic: 90° XY stereo format, 120 dB SPL maximum input sound pressure, -∞ dB ~ +39 dB input gain
- MIC/LINE IN: Input connector: stereo mini jack, -∞ dB ~ +39 dB input gain, 2 kΩ or higher input impedance, plug-in power (2.5 V) supported

Output:
- Combined line/headphone stereo mini jack
- Built-in speaker: 500mW 8Ω mono speaker

USB:
- microUSB
  - Mass storage class operation: USB 2.0 High Speed
  - Audio interface operation: USB class compliant
  - 44.1/48kHz sampling rate, 16-bit depth, 2-in/2-out
  - Transfer method: asynchronous

Power: 2 AAA batteries (alkaline, lithium or rechargeable NiMH batteries)
- AC adapter (ZOOM AD-17): DC 5V/1A

Estimated continuous recording time using batteries:
- About 10 hours (alkaline batteries, using built-in mic, 44.1 kHz/16-bit)
- Note: The above value is approximate.
- Note: The continuous battery operation time was determined using in-house testing methods. It will vary greatly according to use conditions.

External dimensions: 50.0 mm (W) × 137.5 mm (D) × 32.0 mm (H)
Weight (main unit only): 60 g