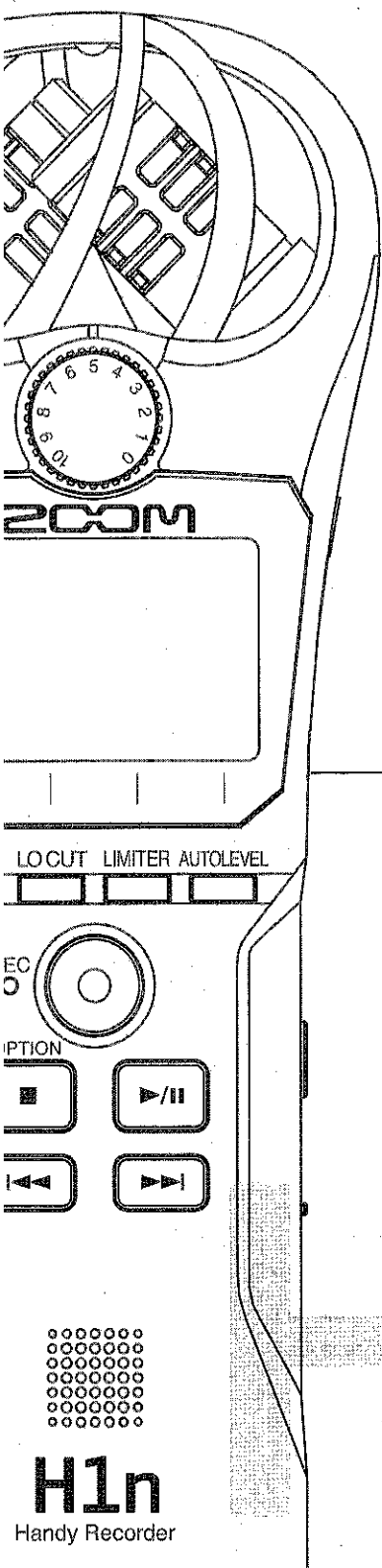


# ZOOM®



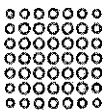
## Handy Recorder

# 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](http://www.zoom.co.jp)).



# H1n

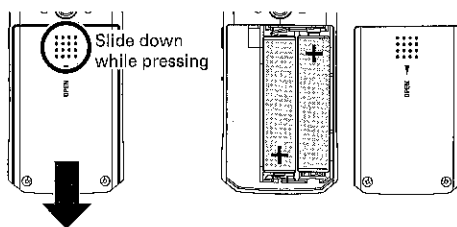
Handy Recorder

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prohibited.

# Preparations

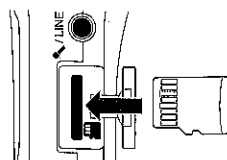
1. Remove the battery cover and insert batteries.




## HINT


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

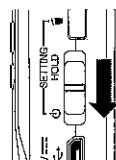
2. Open the SD card slot cover, and insert a microSD card.





3. Slide  to turn the power on.

## HINT

Misoperation during recording can be prevented by sliding  toward HOLD to disable button use.





4. Set the language shown.

Select the language: Press  or 


Confirm: Press 



5. Set the date and time.


Move the cursor: Press  or 

Change the value: Press  or 

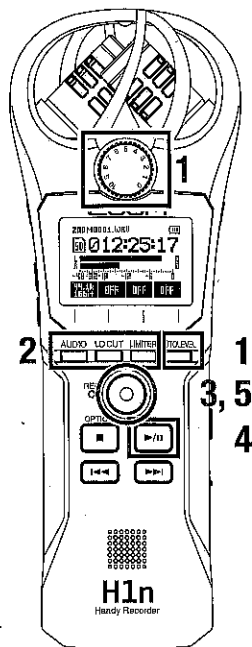
Confirm: Press 




## HINT

The language and date and time can be changed later using the Settings screen. Turn the power on while pressing  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

When changing a setting, press the same button again to magnify the parameter shown.

## 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 

## HINT


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.

- 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 

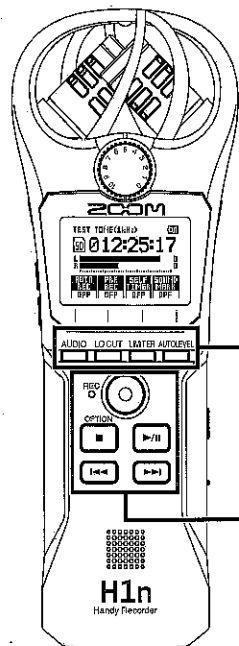
If marks are added, their positions can be jumped to during playback.

- 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   
After pressing , recording will start automatically when the input level exceeds the set value.
- **Pre-recording (Pre Rec):** Press   
Recording can be started about two seconds before  is pressed.
- **Self Timer:** Press   
After pressing , recording starts automatically when the set time passes.
- **Sound Marker:** Press   
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.

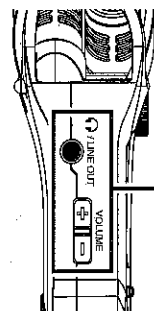
After pressing  or  to select the file, press  while pressing .

### ■ Playing test tones



You can play a test tone for adjusting the level of connected equipment.

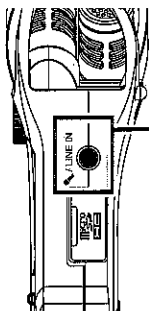
While pressing , press .

Press  again to stop the tone.



### ■ Monitoring recording

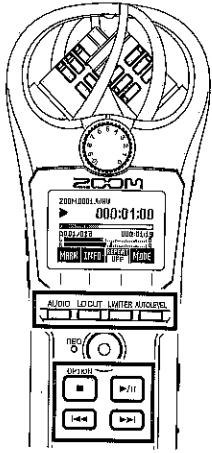
Connect headphones to the PHONE/LINE OUT jack, and press  and  to adjust the volume.



### ■ Using an external mic

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

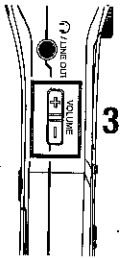
# Playing recordings



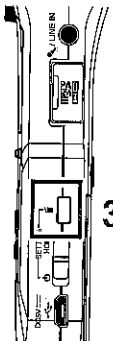
1, 2, 3, 4

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

Adjust the volume	Press  and
Pause/resume playback	Press
Search forward/backward	Press and hold  or
Repeat playback	Press The current file or all the files on the SD card can be played back repeatedly.
Add a mark	Press
Jump to marks or switch files	Press  and If there is a mark, it will be jumped to first.
Clear a mark	Press  when paused at a mark
Check file information	Press Change page: Press  or Return to the playback screen: Press
Delete a file	Press



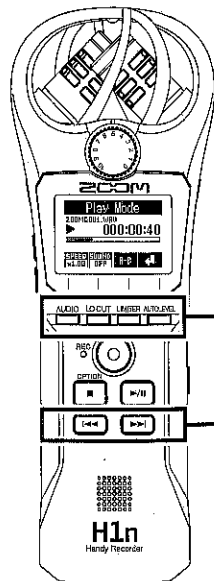
3



3

4. Press to stop playback.

## Using additional playback functions



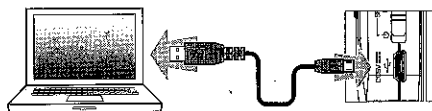
### ■ Setting the Play Mode

On the playback screen, press **AUTOLEVEL** to open the Play Mode screen. Use the following buttons for functions that are useful for listening to and transcribing passages.

- **Speed:** Press **AUDIO**
- **Sound Effect:** Press **LOCUT**  
This applies an effect to playback to change the sound.
- **Repeat playback of a set interval (between A and B points):** Press **LIMITER** at the starting point (A), and then press **LIMITER** at the ending point (B)  
Press **LIMITER** again to stop repeat playback between the A and B points.
- **Adjust the playback position by small amounts:** Press **▶▶** to skip 10 seconds forward and press **◀◀** to skip 3 seconds backward
- **Return to the playback screen:** Press **AUTOLEVEL**

## 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 **LOCUT** or **LIMITER**

Confirm: Press **AUTOLEVEL**



### ■ Card reader

You can use a computer to exchange data with the H1n.

To disconnect the H1n, end the connection on the computer first, and then press **AUTOLEVEL**.



## ■ 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 **LOCUT**  or **LIMITER**

Confirm: Press **AUTOLEVEL**



### 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.

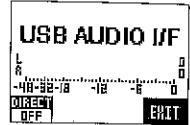
Move the cursor: Press **LOCUT**  or **LIMITER**

Confirm: Press **AUTOLEVEL**



3. To set direct monitoring, press **AUDIO**  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 **AUTOLEVEL**  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 (96x64) with REC LED (red)
Inputs	<b>Built-in mic</b> 90° XY stereo format, 120 dB SPL maximum input sound pressure, -∞ dB - +39 dB input gain <b>MIC/LINE IN</b> 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



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## Safety Precautions

Read the content of these Usage and Safety Precautions carefully before use, and then use the product correctly. In this document, symbols are used to show precautions for the prevention of injury and loss to you or other people that could result from misuse. The meanings of these symbols are as follows.



Something that could cause serious injury or death



Something that could cause injury or damage to the equipment

### Other symbols used



An action that is mandatory



An action that is prohibited



**WARNING**

### Power (See the operation manuals of each product for detailed information about the power sources that they can use.)

#### Products that use AC adapters

- ① Always use an AC adapter specified for that product.
- ⊘ Do not do anything that could exceed the ratings of outlets and other electrical wiring equipment.
- ① Before using the equipment in a foreign country or other region that uses a different electrical voltage, always consult with a shop that carries ZOOM products and use the appropriate AC adapter.

#### Products that use external DC power supplies

- ① Always use an external DC power supply specified for that product.
- ① Carefully study the warning indications of the DC power supply before use.

#### Products that use batteries

- ① Always use commercially-available 1.5V dry cell batteries or batteries specified in the operation manual.
- ① Carefully study warning indications on batteries before use.
- ① Always keep the battery cover (or battery/SD card cover) closed during use.

#### Products that use lithium ion batteries

- ① Refer to the "Warnings and requests regarding safe battery use" included separately.

#### Temperature considerations (Products that become hot during continuous operation)

- ⊘ Do not touch for long periods of time while using when the power is on.
- ① Use a tripod, for example, when using for long periods of time.

#### Alterations

- ⊘ Do not open the case or make alterations.



**CAUTION**

#### Product handling

- ① Do not drop, bump or apply excessive force to the unit.
- ① Be careful not to allow foreign objects or liquids to enter the unit.

#### Operating environment

- ⊘ Do not use in extremely high or low temperatures.
- ⊘ Do not use near heaters, stoves and other heat sources.
- ⊘ Do not use in very high humidity or where it could be splashed by water.
- ⊘ Do not use in places with strong vibrations.
- ⊘ Do not use in places with much dust or sand.

#### AC adapter handling (for products that use AC adapters)

- ① When disconnecting an AC adapter from an outlet, always pull on the plug itself.
- ① Disconnect the AC adapter from the outlet when the unit will not be used for a long time and whenever there is lightning.

#### Products that use Built-in batteries

- Risk of explosion or the leakage of flammable liquid or gas.
- ⊘ Do not use in /store in /bring into environment of extremely high temperature or extremely low pressure due to the very high altitude.
- ⊘ Do not attempt to burn, crush, or cut used battery.

#### Battery handling (for products that use batteries)

- ① Install batteries with the correct +/- orientations.
  - ① Use the specified batteries.
  - ① Do not use new and old batteries together. Do not use batteries of different brands or types together.
  - ① Remove the batteries when the unit will not be used for a long time.
  - ① Always turn the power OFF for all equipment before connecting any cables.
- NOTE: Contact our company service department if a leak should occur.**

#### Connecting cables and devices

- ① Always turn the power OFF for all equipment before connecting any cables or devices.
- ① Always disconnect all connected cables and places before moving the unit.

#### Microphones (for products that use microphones)

- ① Always turn the power OFF for all equipment before connecting any microphones.
- ① Do not apply excessive force to microphone plugs when microphones are connected.
- ① Attach the protective cap (if one is included with the product) when no mic is connected for a long time.

#### Volume

- ⊘ Do not use at a loud volume for a long time.

## Usage Precautions

#### Interference with other electronic equipment

In consideration of safety, this product has been designed to minimize its emission of electromagnetic waves and to suppress interference from external electromagnetic waves. However, nearby placement of equipment that is very susceptible to interference or that emits powerful electromagnetic waves could result in interference. If this occurs, place this product and the other device farther apart. With any type of electronic device, including this product, electromagnetic interference could cause malfunction, corrupt or destroy data and result in other unexpected trouble. Always use caution.

#### Cleaning

Use a soft cloth to clean the exterior of the unit if it becomes dirty. If necessary, use a damp cloth that has been wrung out well to wipe it. If a part made of rubber, including silicon, becomes dirty, wipe it with a soft damp cloth that does not shed fibers. Never use abrasive cleansers, wax or solvents such as alcohol, benzene or paint thinner.

#### Temperature considerations

Continuous use for long periods of time, for example, might cause the unit to become warm. This is normal as long as it does not become too hot to touch.

#### Breakdown and malfunction

If the unit becomes broken or malfunctions, immediately turn the power off, disconnect the AC adapter or external power supply, remove the batteries and disconnect all other cables and devices. Contact the store where you bought the unit or our service department with the following information: product model, serial number and specific symptoms of breakdown or malfunction, along with your name and telephone number.

#### FCC regulation warning (for U.S.A.)

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### For EU Countries



Declaration of Conformity