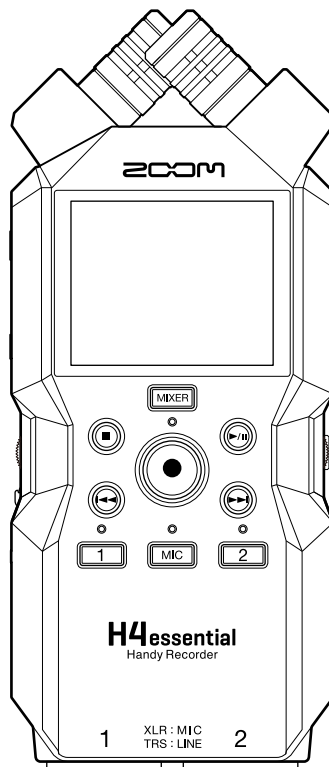


H4essential

Handy Recorder



Version 2.0 Supplementary Manual

You must read the Usage and Safety Precautions before use.

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Proper display is not possible on grayscale devices.

Functions added since Version 1.1

■ Functions added in Version 2.0

- Input gain setting function added
- AI Noise Reduction function added to analyze and reduce environmental sounds and other noise
- Functions added to enable recording and playback of MP3 files
- Functions added to export files in MP3 format
- Mix file recording setting added
- Support for the ZOOM Handy Control & Sync controller application added

■ Function added in Version 1.2

- Pause recording function added

A function has been added that enables recording to be paused by pressing the  (PLAY/PAUSE) button.

■ Function added in Version 1.1

- Function added to turn the guide sound on/off with a shortcut

A function has been added that enables the guide sound to be turned on/off immediately by pressing and

holding the  (ENTER) button.

Contents

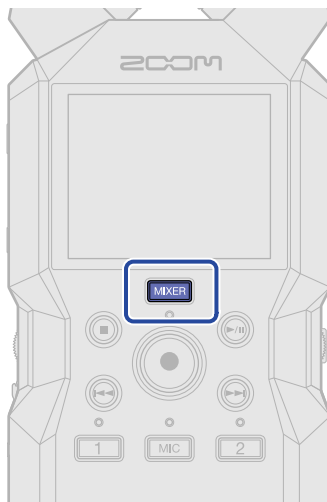
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Functions added in Version 2.0

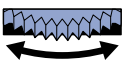
Setting input gain

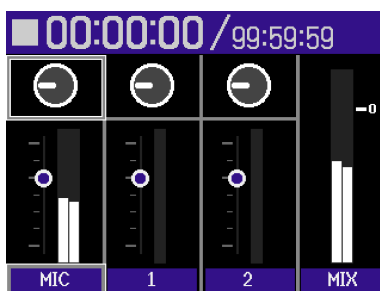
Setting input gain for each track on the Mixer Screen

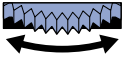
1. Press the  (MIXER) button when the Home Screen is open.

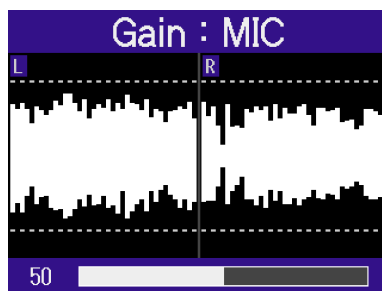


This opens the Mixer Screen.

2. Use the  (selection) dial to select the track for gain adjustment and press the  (ENTER) button.



3. Use the  (selection) dial to adjust the gain and press the  (ENTER) button.



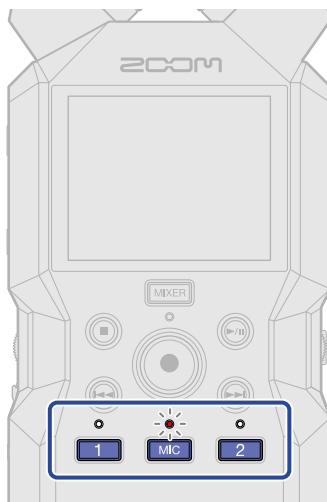
NOTE

When "Format" is set to "MP3", adjust the input gain so that the waveform fits within the dashed lines to prevent clipping in recording files.

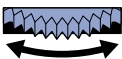
4. Repeat steps 2–3 to adjust the gain of each input.

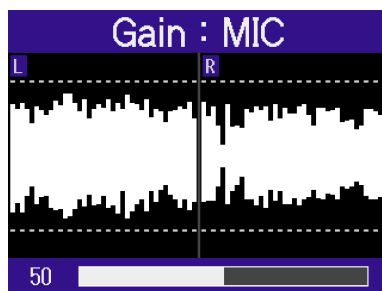
Setting input gain using a shortcut

1. When the Home Screen is open, press and hold the button of the track for input gain adjustment.



- **MIC** : Mic capsule
- **1** – **2** : Inputs 1 and 2

2. Use the  (selection) dial to adjust the gain and press the  (ENTER) button.

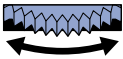
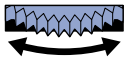


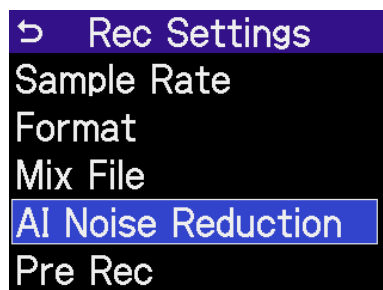
This confirms the gain setting and reopens the Home Screen.

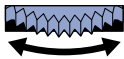
Using AI Noise Reduction

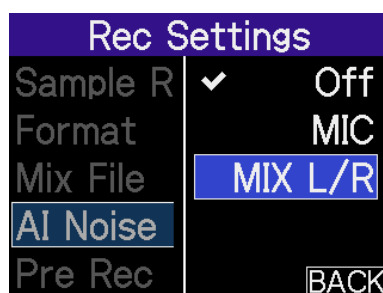
This function can analyze and reduce environmental sounds and other noise.

Using the Menu to set AI Noise Reduction

1. On the Home Screen, use the  (selection) dial to select  (REC) and press the  (ENTER) button.
This opens the Rec Settings Screen.
2. Use the  (selection) dial to select "AI Noise Reduction" and press the  (ENTER) button to confirm.

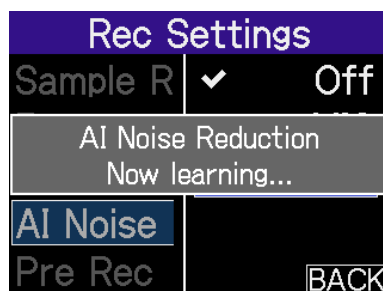


3. Use the  (selection) dial to select the track for AI Noise Reduction activation and press the  (ENTER) button.



Turning this "ON" will start noise analysis. During analysis (for three seconds) input only environmental sounds and other noise.

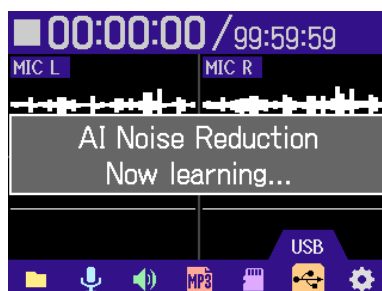
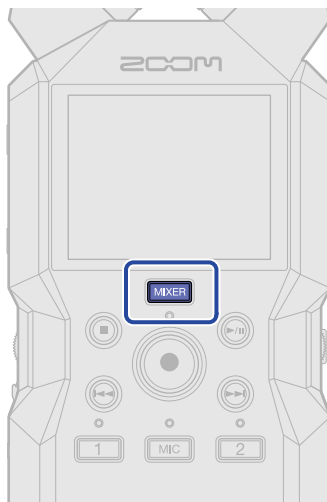
Turning this "OFF" will reset the analysis results.



Turning AI Noise Reduction on/off using a shortcut

This function allows AI Noise Reduction to be turned on/off anytime to suit the use situation.

1. When the HOME screen is open, press and hold the  (MIXER) button.



Turning this "ON" will start noise analysis. During analysis (for three seconds) input only environmental sounds and other noise.

Turning this "OFF" will reset the analysis results.

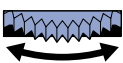
NOTE

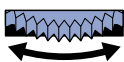
- Use the Menu Screen to select the tracks for which AI noise reduction is enabled. (→ [Using AI Noise Reduction](#))
- AI Noise Reduction will always be off at startup.
- When AI Noise Reduction is on, "A" will appear on the Home Screen status icon.

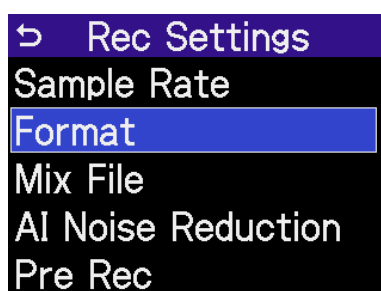


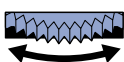
Recording with MP3 format

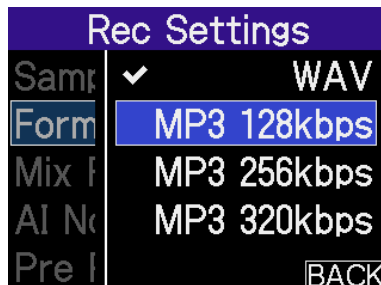
The recording data format can be set to MP3.

1. On the Home Screen, use the  (selection) dial to select  (REC) and press the  (ENTER) button.
This opens the Rec Settings Screen.

2. Use the  (selection) dial to select "Format" and press the  (ENTER) button to confirm.



3. Use the  (selection) dial to select the desired setting item and press the  (ENTER) button to confirm.



The following formats can be selected.

MP3 128kbps, MP3 256kbps, MP3 320kbps

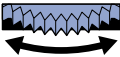
NOTE

- The sample rate cannot be set to 96 kHz when MP3 is selected.
- Recording with MP3 format is not possible when the sample rate is set to 96 kHz.
- A-B Repeat Playback is supported with MP3 files, but the setting range cannot be saved.

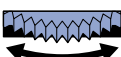
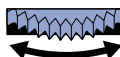
Exporting files in MP3 format

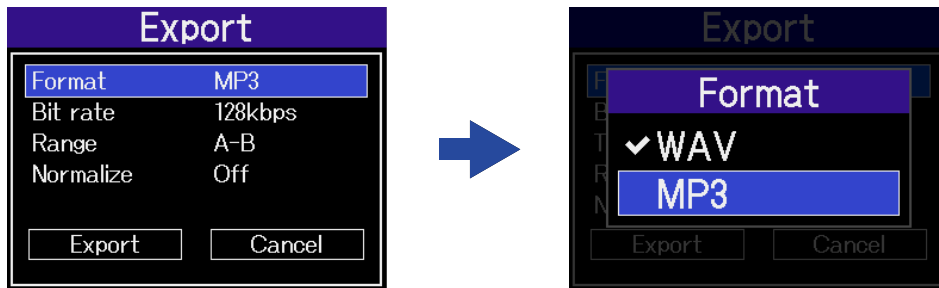
Recorded WAV files can be converted to MP3 and exported.

In addition, recorded files can be normalized to optimize their levels.

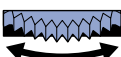
1. On the Playback Screen, use the  (selection) dial to select  (EXPORT) and press the  (ENTER) button.
This opens the Export Screen.

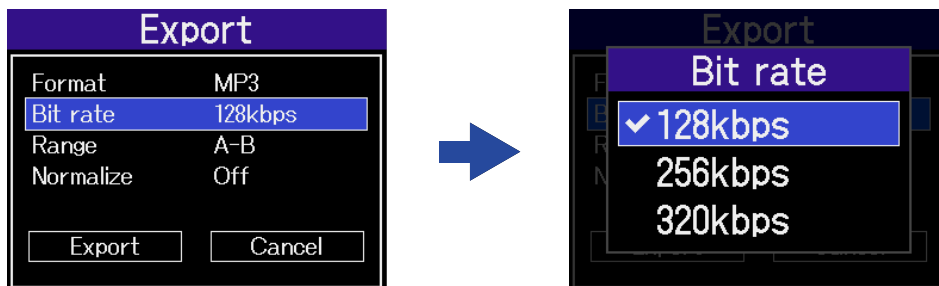
2. Select "MP3" for the format.

Use the  (selection) dial to select the format and press the  (ENTER) button. Then, use the  (selection) dial to select "MP3" and press the  (ENTER) button.



3. Select the bit rate.

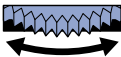
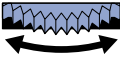
Use the  (selection) dial to select "Bit rate" and press the  (ENTER) button. Then, use the  (selection) dial to select the format and press the  (ENTER) button.

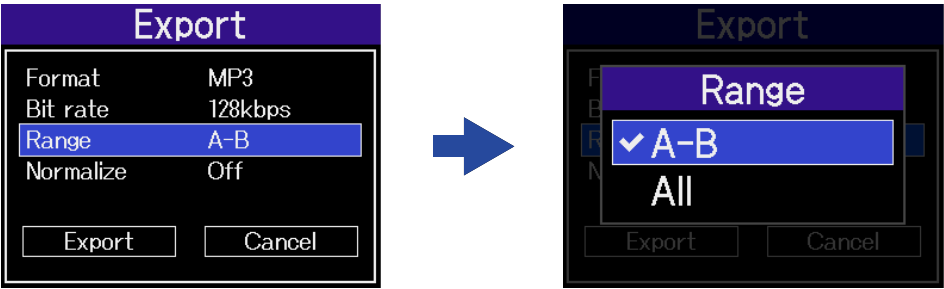


The following formats can be selected.

MP3: 128 kbps, 256 kbps, 320 kbps

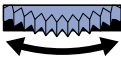
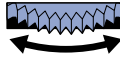
4. Select whether or not to export using a specified range.

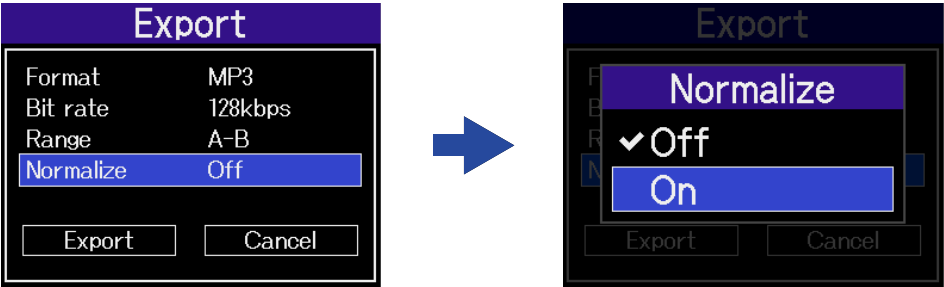
Use the  (selection) dial to select “Range” and press the  (ENTER) button. Then, use the  (selection) dial to select the setting and press the  (ENTER) button.



Setting value	Explanation
A-B	This exports the range between the two points set as explained in “Repeat playback of a set interval (A-B repeat)”.
All	This exports the entire track.

5. Select whether or not to normalize.

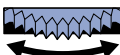
Use the  (selection) dial to select “Normalize” and press the  (ENTER) button. Then, use the  (selection) dial to select “On” or “Off” and press the  (ENTER) button.

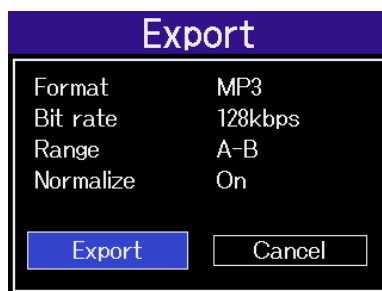


If “On” is selected, the file will be normalized during export.

NOTE

Normalization is a function that reads the maximum level of the audio data and evens out the level without causing distortion. The level is adjusted to the maximum possible without causing the loudest sound (peak) in the data to distort.

When done making all settings, use the  (selection) dial to select “Export” and press the  (ENTER) button.



NOTE

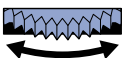
MP3 files cannot be exported (as WAV or MP3).

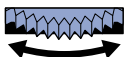
Setting whether to record mix files

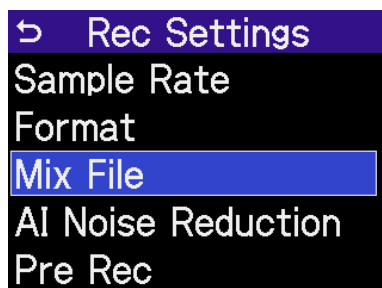
In addition to recording each track separately, a stereo mix file of those tracks can also be recorded. The recording of stereo mix files can be disabled to save SD card space.

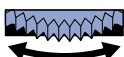
NOTE

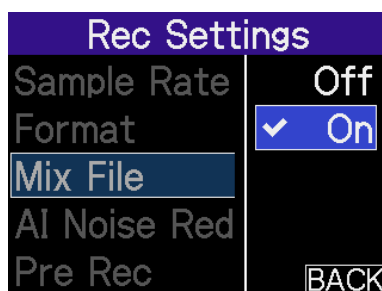
- Even when mix file recording is on, mix files will not be recorded in the following cases.
 - When the sampling rate is 96 kHz
 - When AI Noise Reduction is set to Off or MIC and only one file would otherwise be generated (for example, when only one track or a stereo-linked pair of tracks is being recorded)
- Use the export function to create mixed 96kHz stereo files. (→ Changing formats and exporting files)

1. On the Home Screen, use the  (selection) dial to select  (REC) and press the  (ENTER) button.
This opens the Rec Settings Screen.

2. Use the  (selection) dial to select "Mix File" and press the  (ENTER) button.

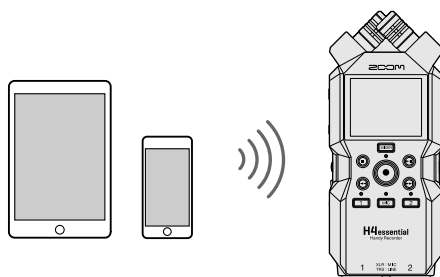


3. Use the  (selection) dial to select "On" or "Off" and press the  (ENTER) button.



Operating the H4essential from a smartphone/tablet (ZOOM Handy Control & Sync)

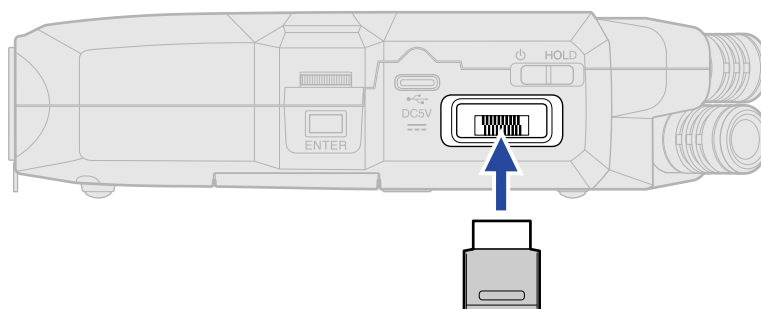
The H4essential can be operated wirelessly from a smartphone or tablet by connecting a BTA-1 or another dedicated wireless adapter and using the ZOOM Handy Control & Sync app designed to control it. ZOOM Handy Control & Sync can be connected to multiple recorders and used to simultaneously start and stop recording, synchronize timecode and set the date and time.

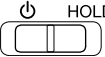


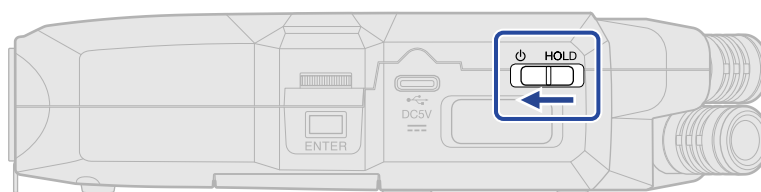
NOTE

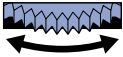
- The ZOOM Handy Control & Sync app must be installed on the smartphone or tablet beforehand. The ZOOM Handy Control & Sync app can be downloaded from the App Store, for example. Refer to the manual for the ZOOM Handy Control & Sync app for details about app settings and operation procedures.
- The H4essential cannot be controlled wirelessly from a smartphone or tablet during audio interface operation (→ Using as an audio interface).
- An H4essential cannot have both ZOOM Handy Control & Sync and an UltraSync BLUE connected at the same time.

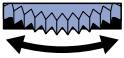
1. With the H4essential power off, remove the REMOTE connector cover on its front. Then, connect a BTA-1 or another dedicated wireless adapter.

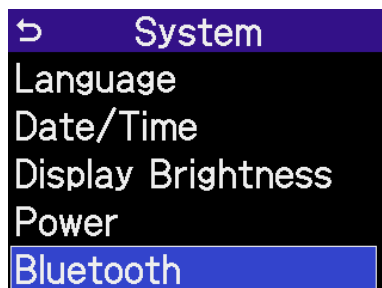


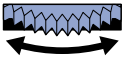
2. Slide the  (POWER/HOLD) switch toward  (in the direction of the INPUT 1 and 2 jacks) until the power turns on and the display becomes active.

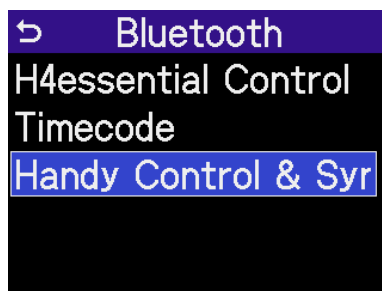


3. On the Home Screen, use the  (selection) dial to select  (SYSTEM) and press the  (ENTER) button.
This opens the System Settings Screen.

4. Use the  (selection) dial to select "Bluetooth" and press the  (ENTER) button.



5. Use the  (selection) dial to select "Handy Control & Sync" and press the  (ENTER) button.



Searching for the device to connect will begin and "Searching..." will appear on the display.



HINT

Searching can be canceled by pressing the  (ENTER) button.

Disconnecting from smartphones and tablets

Disconnection is possible by quitting the app on the smartphone or tablet.

Removing the BTA-1 from the H4essential will also disconnect it from ZOOM Handy Control & Sync.

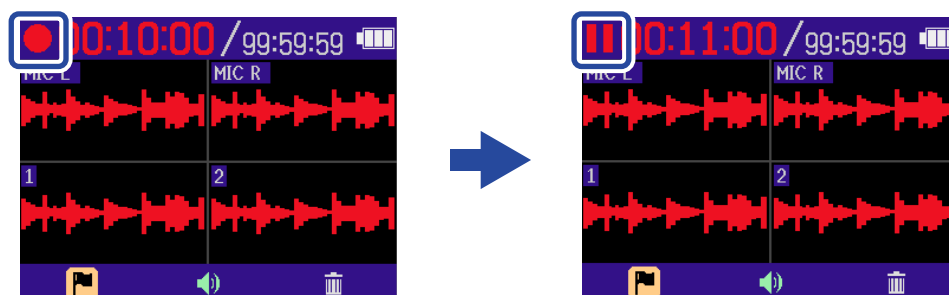
Function added in Version 1.2

Pausing recording

By pausing recording and not recording unwanted intervals, microSD card capacity can be conserved.

1. Press the  (PLAY/PAUSE) button when recording.

This pauses recording.



Press the  (PLAY/PAUSE) button again to resume recording.

NOTE

Resuming recording will automatically add a mark at that point.

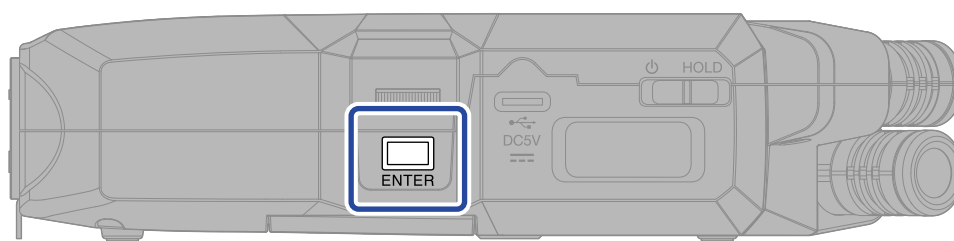
Function added in Version 1.1

Turning guide sounds on/off with a shortcut

This function allows the guide sound to be turned on/off anytime to suit the use situation.

Turning the guide sound on/off

1. When the HOME screen is open, press and hold the  (ENTER) button.



This turns on/off the guide sound.



Home Screen



A notification about the switch will be shown (and announced with the guide sound).

Notes about this manual

- The microSD, microSDHC and microSDXC logos are trademarks.
- USB Type-C is a trademark of the USB Implementers Forum.
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