H5studio

Handy Recorder

Quick Tour

Software and documents related to this product can be viewed on the following website.

zoomcorp.com/help/h5studio

You must read the Usage and Safety Precautions before use.

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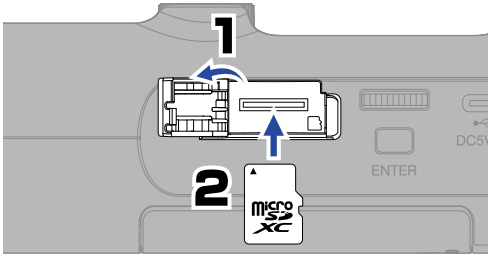
This manual might be needed in the future, so be sure to keep it somewhere that is easy to access.
The contents of this manual and the specifications of the product could be changed without notice.
Proper display is not possible on grayscale devices.

Inserting microSD cards

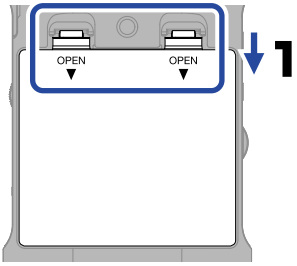


Supported recording media:
microSDHC memory cards
microSDXC memory cards
We recommend using microSD cards that have been confirmed to work with this product.
See the ZOOM website (zoomcorp.com/help/h5studio).

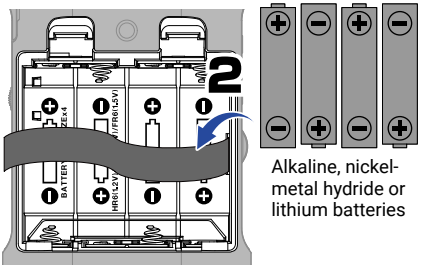
- Always turn the power off before inserting or removing a microSD card.
- To remove a microSD card, push it further into the slot and then pull it out.
  Be careful not to let the microSD card fly out.

Turning the power on

Open while pressing down.

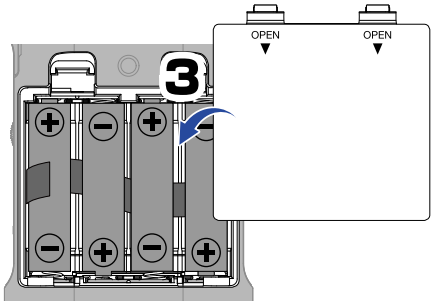


AA batteries

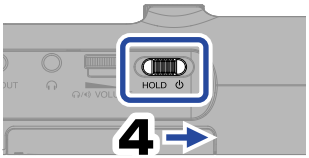


Alkaline, nickel-metal hydride or lithium batteries

Extend the battery ribbon underneath.

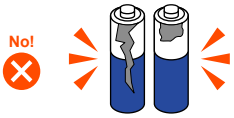


Replace the battery cover.

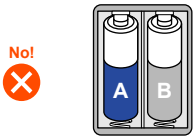


Turn the power on.

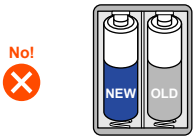
Take the following precautions to prevent breakdown and leakage when using batteries.



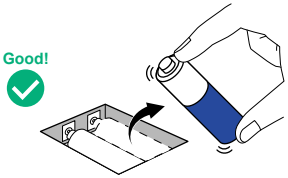
Do not use batteries if their covers are coming off or their exteriors are damaged.



Do not mix batteries of different types or made by different manufacturers.

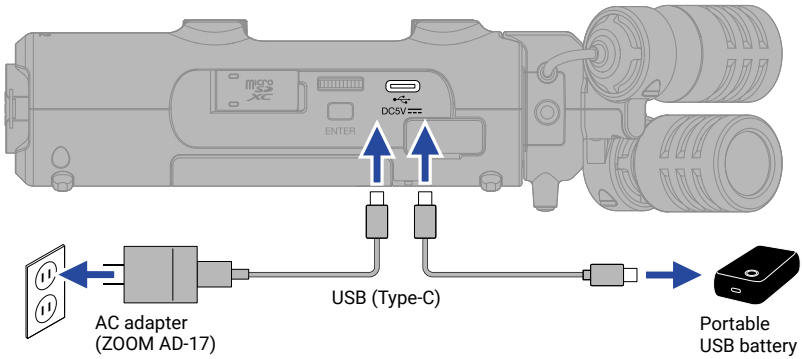


Do not use new and old batteries together.



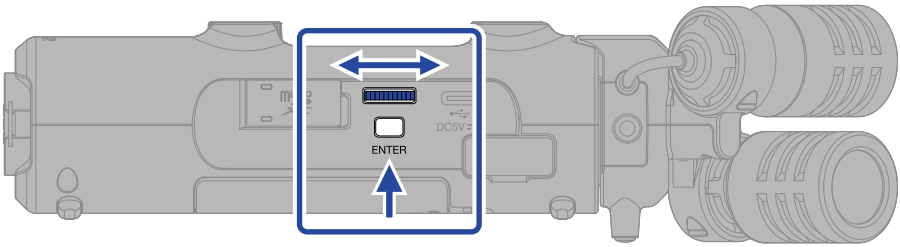
Remove dead batteries as soon as possible. Remove batteries when not using them for a long time.

A dedicated AC adapter (ZOOM AD-17) or a commercially-available portable USB battery can also be used.



Making settings when first turned on

Use (select) and ENTER (confirm/execute) according to the screen.



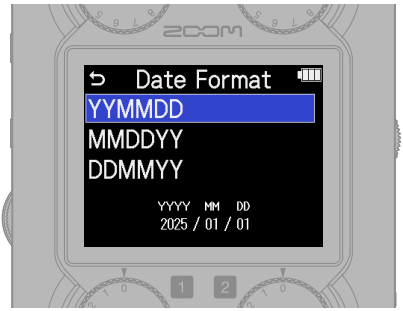
Accessibility setting

A function that enables setting audio guidance and beep sounds is included to assist users with vision impairments.
Adjust the volume by turning the VOLUME (VOLUME dial) on the left side.

Language setting

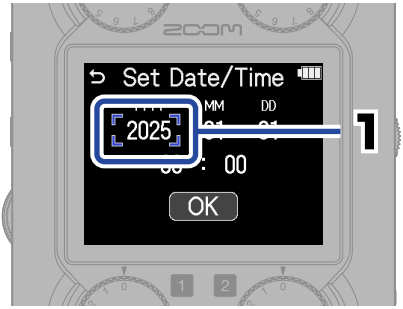
Press to return to the previous screen.

Date format setting

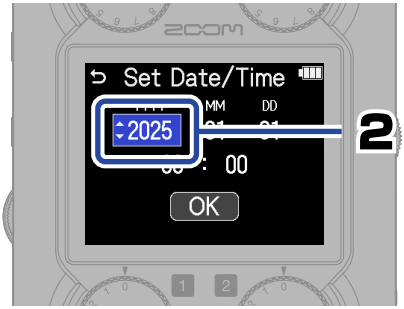


The year, month and day will be used in recording file names in the order set here.

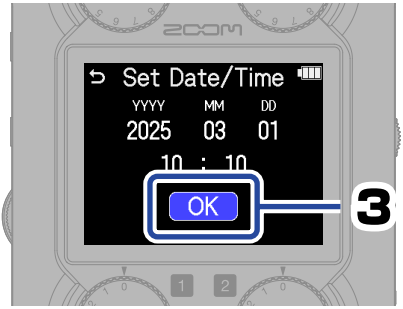
Date and time settings



Select a setting item and confirm.



Change the value and confirm.

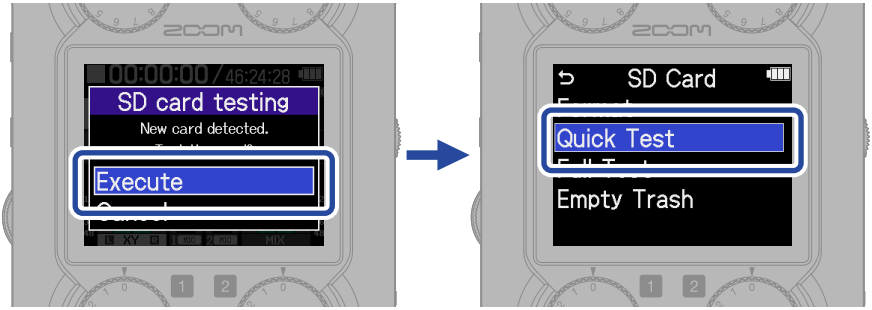


After setting all the items, select “OK” to complete setting the date and time.

Battery type setting

Set the type of battery used correctly so that the amount of remaining battery charge can be shown accurately.

We recommend running SD card tests on microSD cards after purchasing them new or using them with a different device.

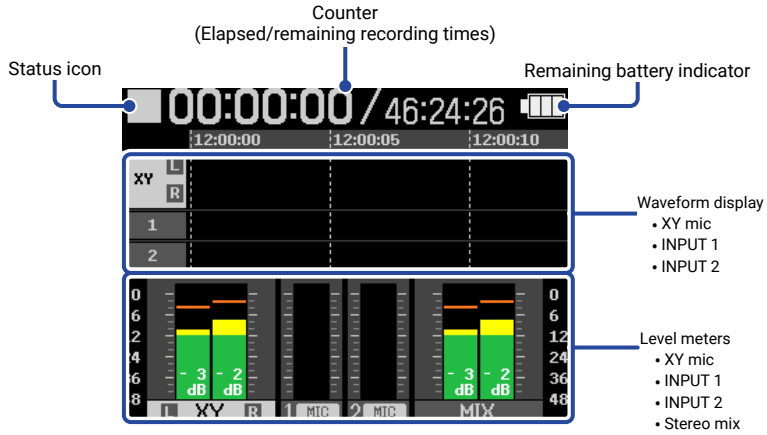


A quick test can check the performance of a microSD card in a short time (about 30 seconds) regardless of its capacity. A full test will check the entire microSD card, so the amount of time required depends on its capacity (about 1.5 hours for 64 GB).

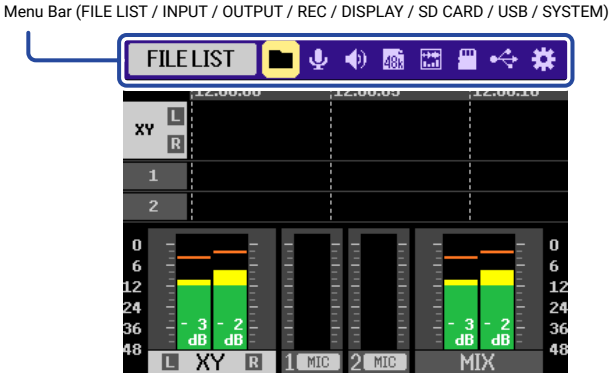
After testing completes, ■ can be pressed to return quickly to the Home Screen from any other screen.

After settings are complete, the Home Screen will open.

■ Home Screen



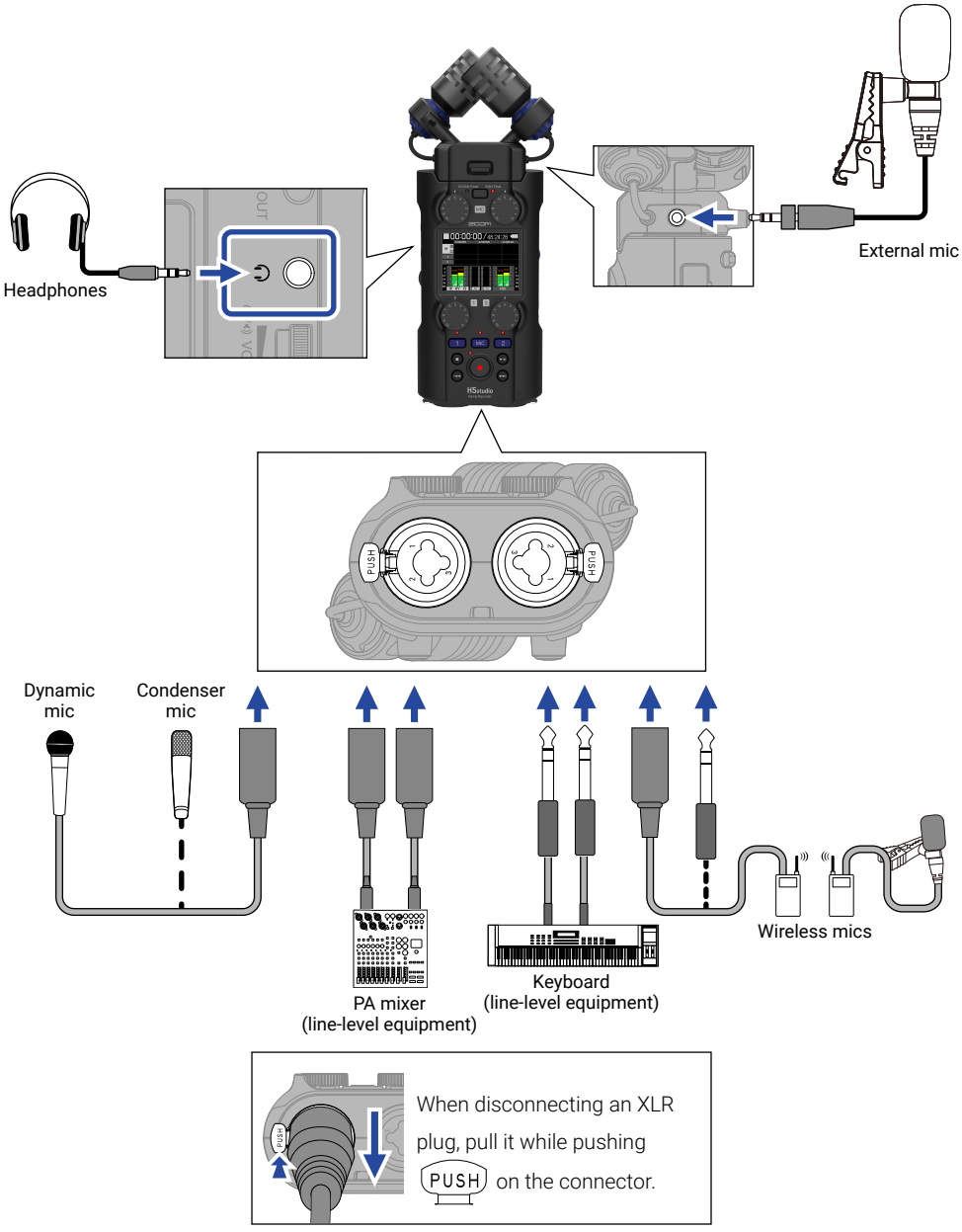
Turn  to show the Menu Bar at the top of the screen.



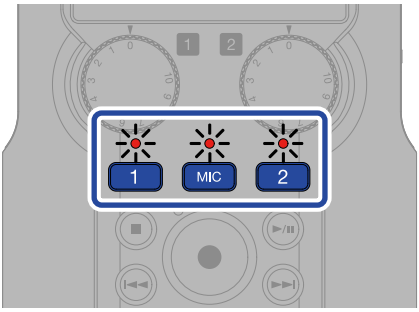
Press and hold 

when the Home Screen is open to immediately turn on/off the guide sound.

Connecting equipment



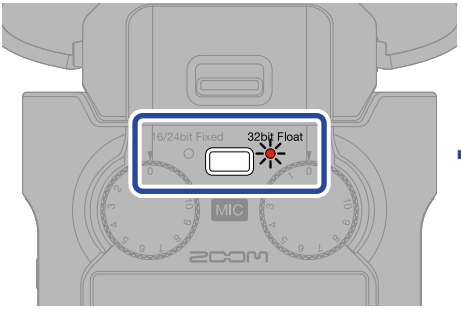
Enabling tracks for recording



The indicator will light red, showing it is ready to record.

Selecting the recording mode

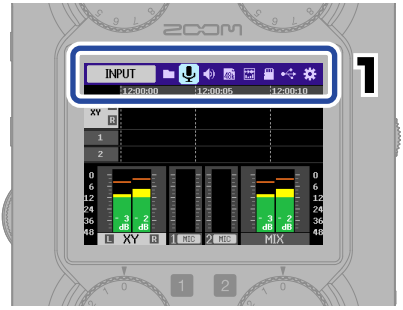
Press 16/24bit Fixed ○ ▭ ○ 32bit Float to select the recording mode.



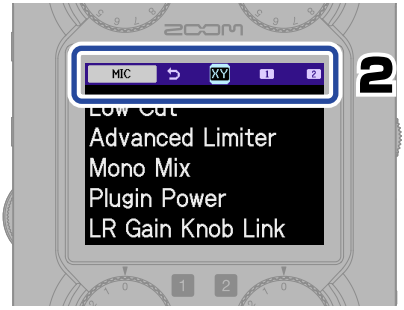
Use ▬ to select and ▭ ENTER to confirm.

- When 32bit Float is selected, audio files will not be clipped.
- When 16/24bit Fixed is selected, the data size of recorded files will be smaller, but recording levels must be adjusted to prevent clipping.

Making input settings



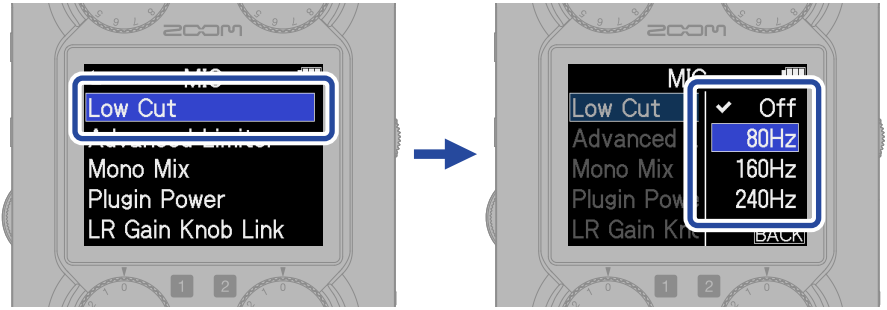
Turn to show the menu bar and select .



Select XY for the XY mic.

Select 1 or 2 for INPUT 1 or 2.

The following procedure is for setting the low cut function.
Other settings can be made the same way (→ “■ Input settings”).



■ can be pressed to return quickly to the Home Screen (from most screens).

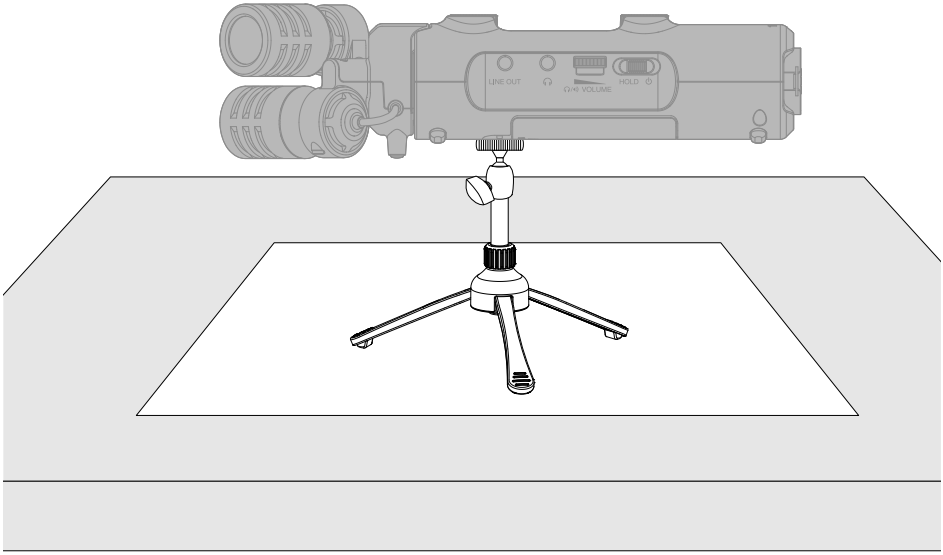
■ Input settings

Setting items	MIC	INPUT 1/2	Explanation
Mic/Line		○	Set according to the connected device. Mic: Use when a microphone is connected Line: Use when connecting line-level equipment, including mixers and keyboards
+48V On/Off		○	Set this to On when condenser mics are connected.
Low Cut	○	○	This can reduce wind noise and vocal pops.
Advanced Limiter	○	○	By detecting the maximum level in advance, this limiter is optimized to prevent distortion.
Mono Mix	○		This mixes sound from an XY mic to mono.
Plugin Power	○		Set this to On when a mic that is compatible with plug-in power is connected to the MIC/LINE IN jack on the XY mic.
1&2 Link		○	When set to “Stereo”, a stereo file will be recorded with INPUT 1 as L and INPUT 2 as R.
1&2 Gain Knob Link		○	When On, the levels of INPUT 1 and 2 can be adjusted together using only the INPUT 1 GAIN knob.
LR Gain Knob Link	○		When Off, the XY mic L and R levels can be adjusted separately using the two left and right MIC GAIN knobs.

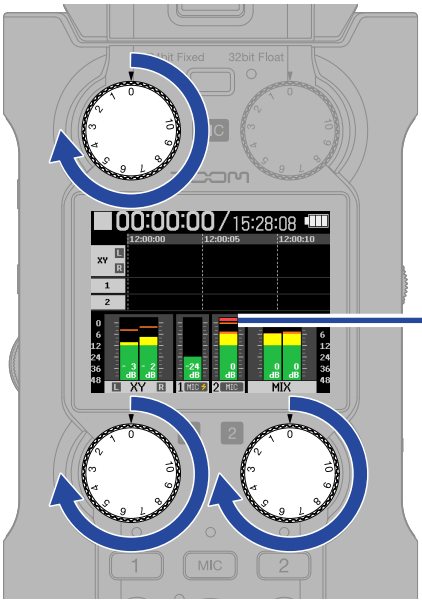
Do not supply phantom power to devices that are not compatible with it. Doing so could damage those devices.

■ Tips to improve recording sound quality

If the H5studio is placed directly on a table, reflected sound can interfere with recording and reduce clarity. We recommend using a tripod, for example, to distance it from the table. Placing something like a handkerchief can also be effective in reducing sound reflected from a table.



Adjusting the volume

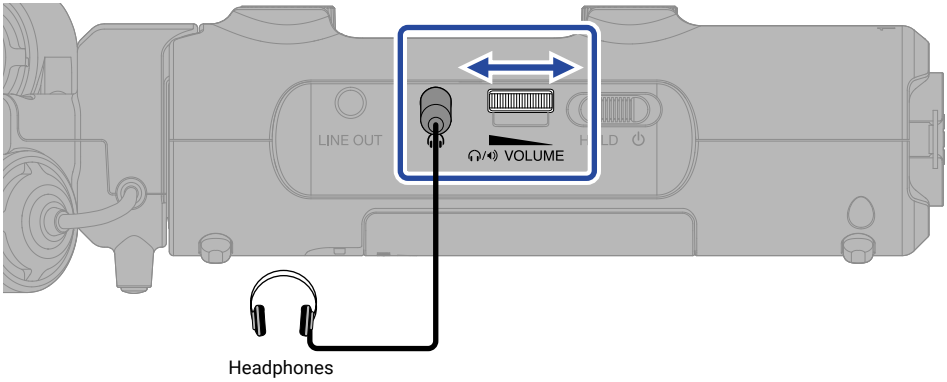


Confirm that the level meters are moving.
Adjust the overall volume balance.

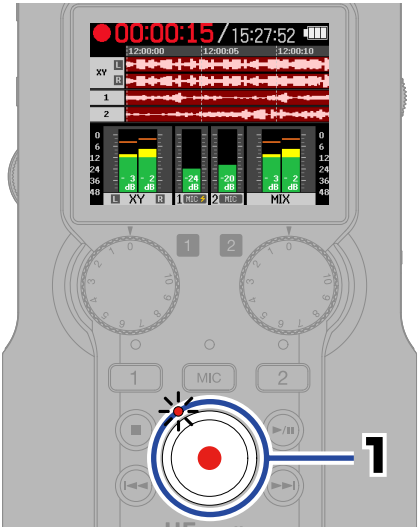
Clipping indicator

- Adjusting levels will affect the monitored sound and the recording data.
- When 16/24bit Fixed is selected, adjust them so that the level meters are around −12 dB at maximum volume. Clipping indicators will light if recording levels reach 0 dB.
- Levels can be adjusted even when recording by using .

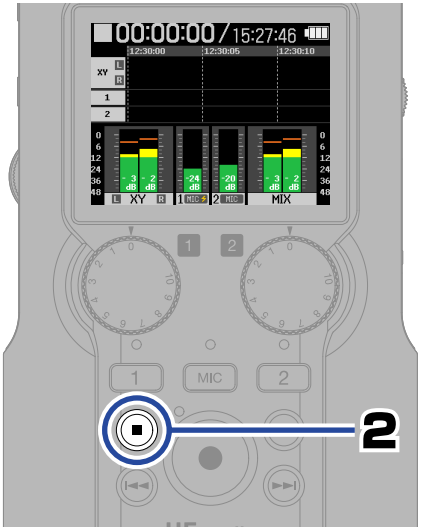
■ Adjusting the monitoring volume



Recording



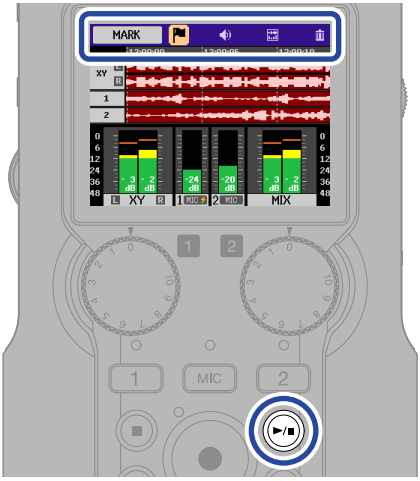
The indicator will light red when recording starts.



This stops recording.

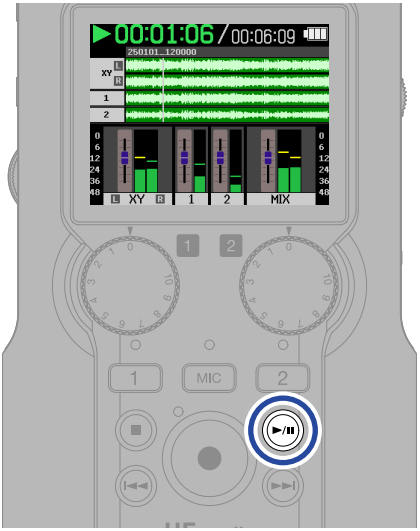
Slide HOLD toward HOLD to prevent misoperation when recording.

■ Using the Recording Screen



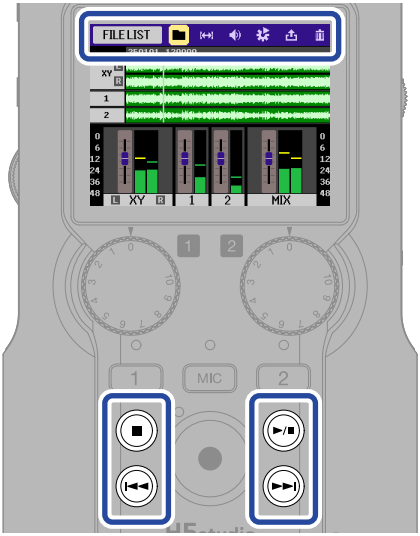
MARK	This adds a marker for cueing during playback.
OUTPUT	This sets line output.
DISPLAY	Home Screen display can be set to “Level meters only”, “Waveforms only” or “Level meters and waveforms”.
TRASH	This stops recording and moves the file to the trash.
►/II	This pauses and resumes recording. Markers are added when recording is resumed.

Playing recordings



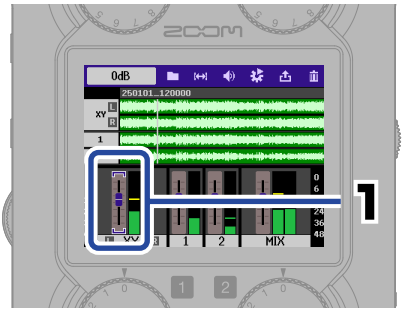
This starts playback.

■ Using the Playback Screen

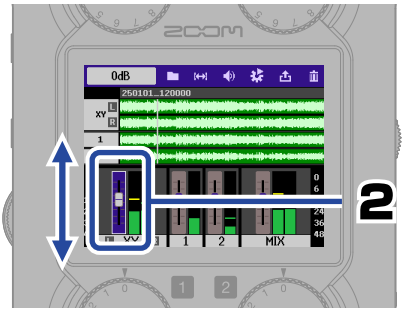


FILE LIST	This opens the FILE LIST Screen.
AB REPEAT	Use this for repeat playback of a specified range (A–B).
OUTPUT	This sets line output.
OPTION	Normalize the volume and set the mode and speed of playback.
EXPORT	Use this to convert and export files.
TRASH	Move the file to the trash.
■	Stop playback.
►/II	Start and pause playback.
I◄◄	Move to the previous file, the beginning of the file, or the previous mark. Press and hold to search backward.
►►I	Move to the next file or the next mark. Press and hold to search forward.

To use the mixer, turn the  dial during playback to select faders.



Select a track.



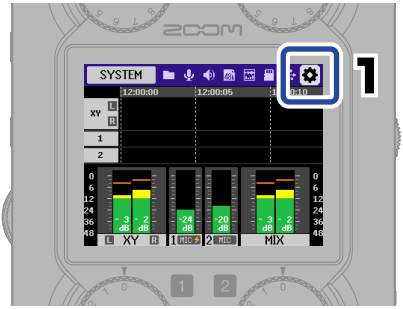
Confirm the track and adjust.

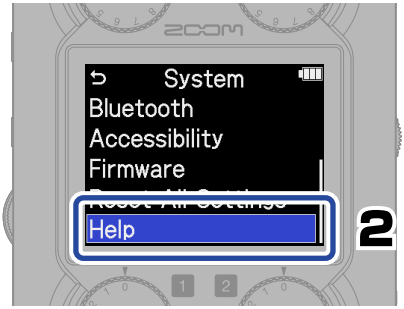
Mixer settings will be saved automatically in each playback file.

Press ■ to stop playback and return to the Home Screen.

Showing the 2D code for online help

Select Help from the SYSTEM menu to show a 2D code.
Use a smartphone to scan it and access detailed documents related to the product.

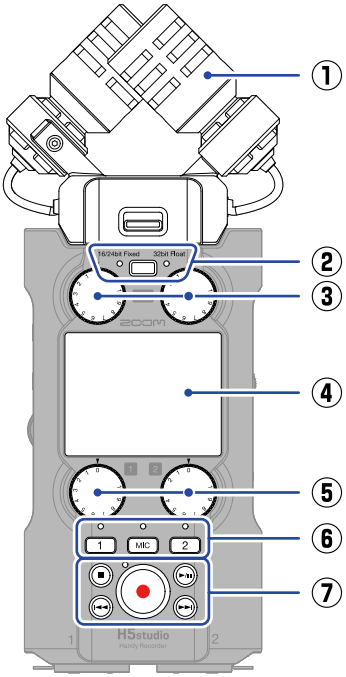




zoomcorp.com/help/h5studio

Functions of parts

■ Front



① **XY mic capsule (XYH-5s)**
This stereo mic has two crossing directional mics. This mic can record three-dimensional sound with natural depth and width.

② **REC mode button/indicator**
Select 16/24bit Fixed or 32bit Float for recording files.

③ **MIC GAIN knobs**
Use these to adjust the MIC input levels.

④ **Display**
This shows various types of information.

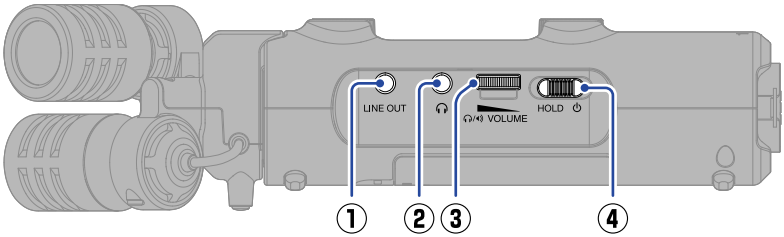
⑤ **INPUT 1/2 GAIN knobs**
Use these to adjust the input levels of INPUT 1 and 2.

⑥ **Track buttons and status indicators**
Press a track button, lighting its status indicator red, to enable that track for recording.

⑦ **Other buttons**

STOP button	This stops recording and playback.
PLAY/PAUSE button	This starts and pauses playback of recorded files.
REC button and indicator	This starts recording. The indicator lights during recording. Press when recording to stop recording.
REW button	Press during playback or when paused to move to the previous file, the beginning of the file, or the previous marker. Press and hold to search backward.
FF button	Press during playback or when paused to move to the next file or the next marker. Press and hold to search forward.

■ Left side



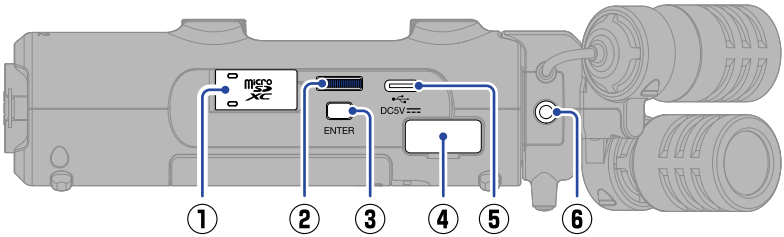
① **LINE OUT jack**
This outputs sound to a connected device.

② **Headphone jack**
This can output sound to headphones.

③ **VOLUME dial**
Use this to adjust the volume output from the speaker and headphones.

④ **POWER/HOLD switch**
Use this to turn the power on/off and to disable button operation.

■ Right side



① **microSD card slot**
Insert a microSD card here.

② **Selection dial**
Use this to select items.

③ **ENTER button**
Press this to confirm items.

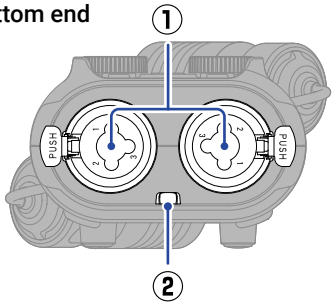
④ **REMOTE connector**
The following functions become possible if a ZOOM BTA-1 or another dedicated adapter (sold separately) is connected here.

- Wirelessly control the H5studio from an iPhone/iPad using the ZOOM Handy Control & Sync app.
- Record timecode in H5studio files by connecting an UltraSync BLUE made by ATOMOS/Timecode Systems.

⑤ **USB port (Type-C)**
Connect this to a computer, smartphone or tablet to use audio interface and file transfer functions.
This supports operation on USB bus power.
Use a USB cable that supports data transfer.

⑥ **MIC/LINE IN jack**
If an external mic or line device is connected here, it can be used to record instead of the XY mic. This can also provide plug-in power to mics that require it.

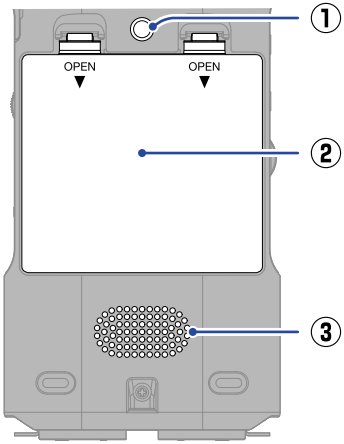
■ Bottom end



① **INPUT 1 and 2 jacks**
Connect mics and instruments to these. These support XLR and 1/4-inch phone (TRS) plugs.

② **Strap hole**
Use this to attach a strap.

■ Rear



① **Tripod socket**
Use this for mounting on a tripod.

② **Battery cover**
Open this when installing and removing AA batteries.

③ **Speaker**
This outputs sound during file playback. If headphones are connected to the Headphone jack, sound will not be output from the speaker.

Other functions

■ USB functions

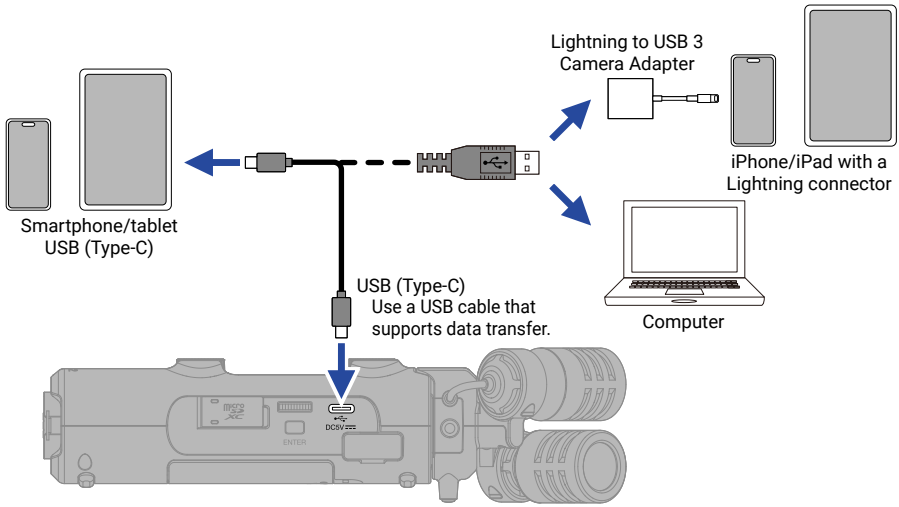
• Audio interface

Connected to a computer, smartphone or tablet, this can be used as a 2-in/2-out or 4-in/2-out audio interface.

A driver must be installed to connect with Windows computers. The latest driver can be downloaded from the ZOOM website (zoomcorp.com/help/h5studio).

• File transfer

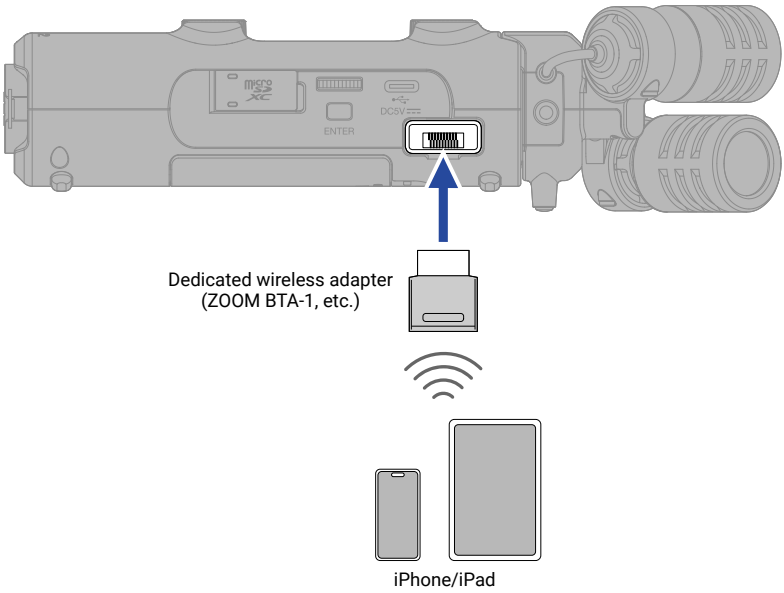
By connecting with a computer, smartphone or tablet, files on the microSD card can be checked and moved.



■ Connecting a dedicated wireless adapter (BTA-1)

• ZOOM Handy Control & Sync app for iPhone/iPad

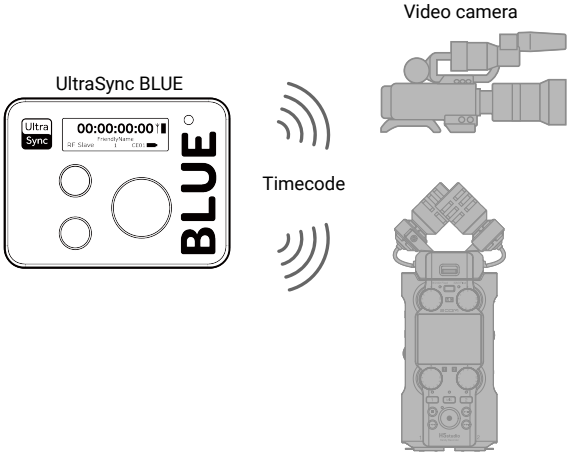
The H5studio can be controlled wirelessly from an iPhone/iPad.



• UltraSync BLUE

The UltraSync BLUE made by ATOMOS/Timecode Systems transmits timecode, which is received by both the H5studio and the video camera, resulting in timecode being recorded in the data for both the audio and the video.

The timecode is transmitted and received by Bluetooth.



Troubleshooting

Problem	Resolution
Sound is not output or the volume is very low	Confirm that a cable is connected properly to the headphone or line output. If sound is not output even when a cable is connected properly, wires in the cable might be broken. Replace the headphones or cable.
	Confirm that the headphone volume and line output level are not too low.
	Confirm that the cables connecting the other device and the INPUT 1/2 jacks or MIC/LINE IN jack are connected properly. If sound is not output even when cables are connected properly, wires in the cables might be broken. Replace the cables.
	Enable the MIC or INPUT 1/2 tracks. Use the  to adjust the input volume. Check the mic/line settings.
	Check the mic orientation and the volume setting of the connected equipment.
	Supply phantom power to condenser mics.
	Supply plugin power to mics that use it.
	Check the mixer settings during playback. Sound will not be output if faders are lowered or tracks are muted.
Monitored sound is distorted	If monitoring at a high volume, use the  to lower the output volume.
	Use the  to adjust the input volume. Check the mic/line settings.
"MIC INPUT OVERLOAD!" or "INPUT 1 (2) OVERLOAD!" appears	The input sound is too loud. Increase the distance between the mic and the sound source or lower the volume of the connected device.
	Wind can also cause loud noises to be input. We recommend using the low cut setting to reduce noise if air is blown directly at the mic, for example, when recording outdoors or when the mic is near the mouth of a speaker. We also recommend putting on a windscreen (sold separately).
Recording is not possible	Enable the MIC or INPUT 1/2 tracks.
	Confirm that the microSD card has open space.
	Confirm that a microSD card is loaded properly in the card slot.

Problem	Resolution
The recorded sound breaks up	Use the card testing function on the unit and use a card that passes the test. See the Operation Manual for details.
	We recommend using microSD cards that have been confirmed to work with this product. See the ZOOM website (zoomcorp.com/help/h5studio).
Not recognized when connected to a computer by USB	Use a USB cable that supports data transfer. Charging cables cannot be used for data transmission.
Date and time become reset	If power is not supplied by an AC adapter or batteries for a long time, and the power supply for date and time retention becomes depleted, data stored in the unit will be reset. If the Set Date/Time Screen appears during startup, set them again.
Operation is not possible	Confirm that  is not set to HOLD.

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The illustrations and display screens in this document could differ from the actual product.

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