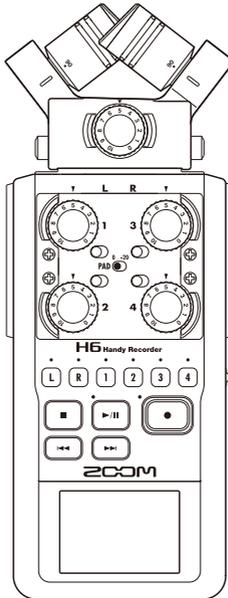


H6

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/h6).
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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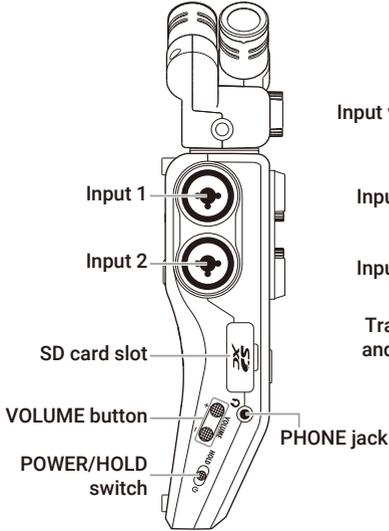
The contents of this manual and the specifications of the product could be changed without notice.

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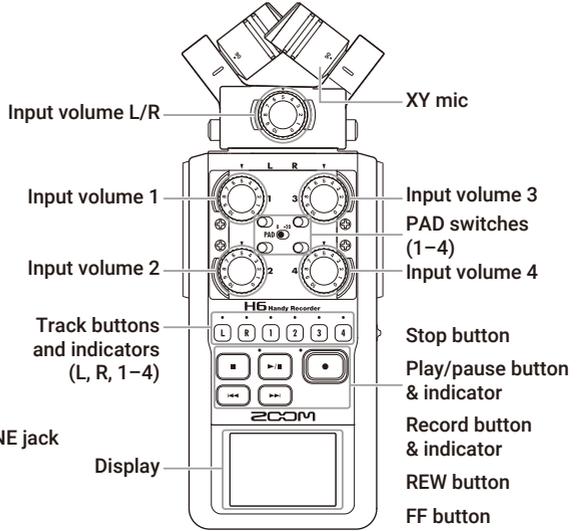
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Parts and Connections

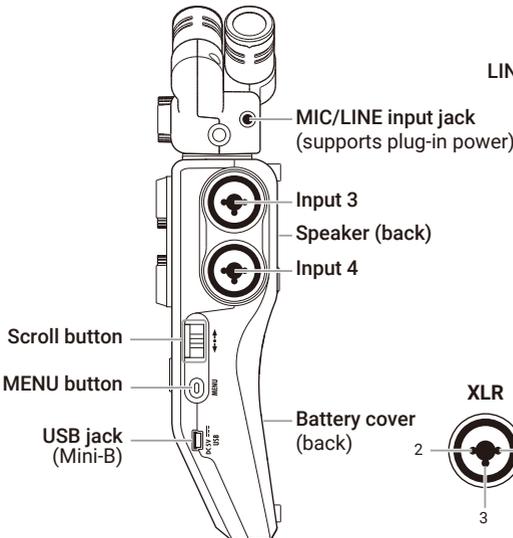
Left side



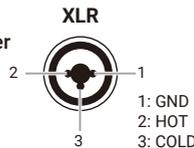
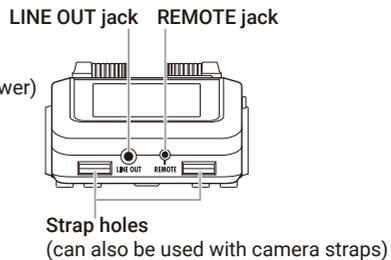
Front



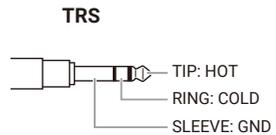
Right side (and back)



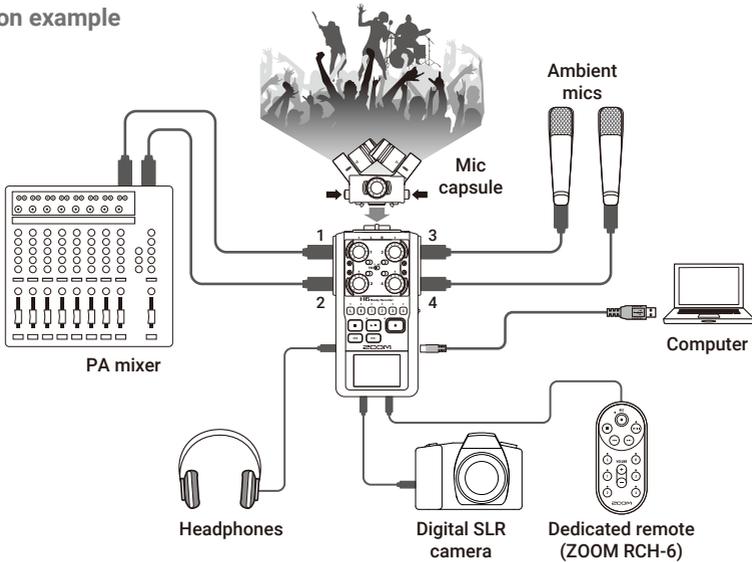
Bottom



- 1: GND
- 2: HOT
- 3: COLD



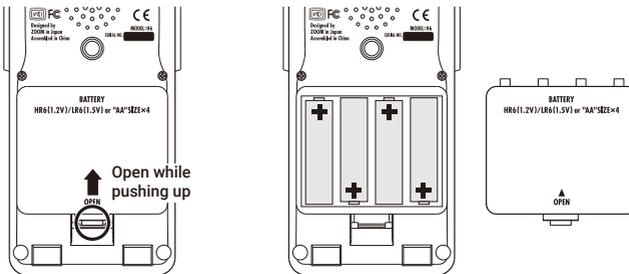
■ Connection example



Preparations

Using batteries

1. After turning the power off, open the battery compartment cover and install batteries.



NOTE

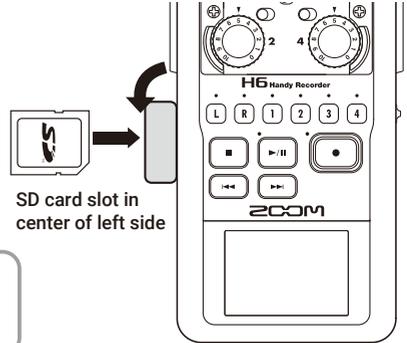
- Use alkaline batteries or rechargeable NiMH batteries.
- Use MENU > SYSTEM > Battery to set the type of battery so that the amount of remaining battery charge can be shown accurately.

HINT

AC power can also be used by connecting a dedicated AC adapter (ZOOM AD-17) to the USB port.

Loading SD cards

1. After turning the power off, open the SD card slot cover and insert an SD card.



HINT

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

NOTE

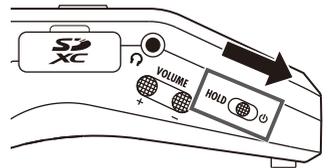
Before using SD cards that have just been purchased or that have been formatted on a computer, they must be formatted by the **H6**. To format an SD card, use MENU > SD CARD > Format.

Turning the power on and off

1. Slide **HOLD**  right.

HINT

- To turn the power off, slide **HOLD**  until the ZOOM logo appears on the display.
- Sliding **HOLD**  to the left (toward **HOLD**) will disable button operations.



NOTE

- If "No SD Card!" appears on the display, confirm that an SD card is inserted properly.
- If "Card Protected!" appears on the display, the SD card write-protection is enabled. Slide the lock switch on the SD card to disable write-protection.
- If "Invalid Card!" appears on the display, the card is not formatted correctly. Format the card or use a different card.

Setting the language (first time starting up)

The first time you turn the power on after purchase, set the display language when the Language setting screen opens.

1. Use  to select the language,
and press .



HINT

The language setting can be changed later using MENU > LANGUAGE.

Setting the date and time (first time starting up)

When the Date and Time setting screen opens after the Language settings screen, set the date and time.

1. Use  to select the item to change,
and press .
2. Use  to change the value, and press .
3. Press .

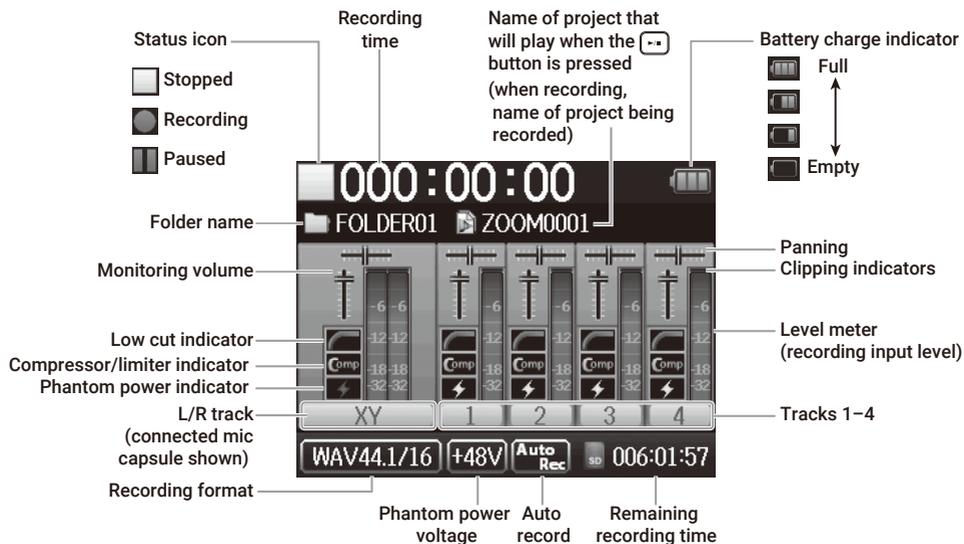


HINT

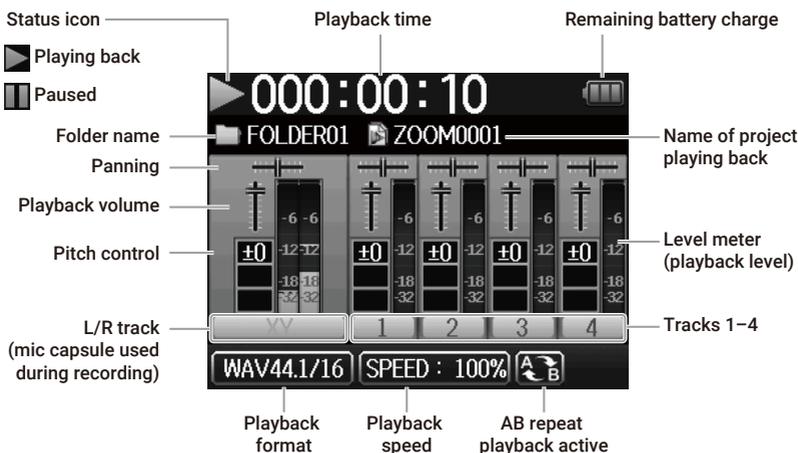
The date and time setting can be changed later using MENU > SYSTEM > Date/Time.

Display overview

■ Home/Recording Screen



■ Playback screen



Recording process

Recording follows the process shown below.



- Install batteries
- Insert an SD card
- Connect mic capsule
- Connect mics, instruments and other sources to Inputs 1–4
- Turn the power on
- Set the recording format
- Make input and output settings



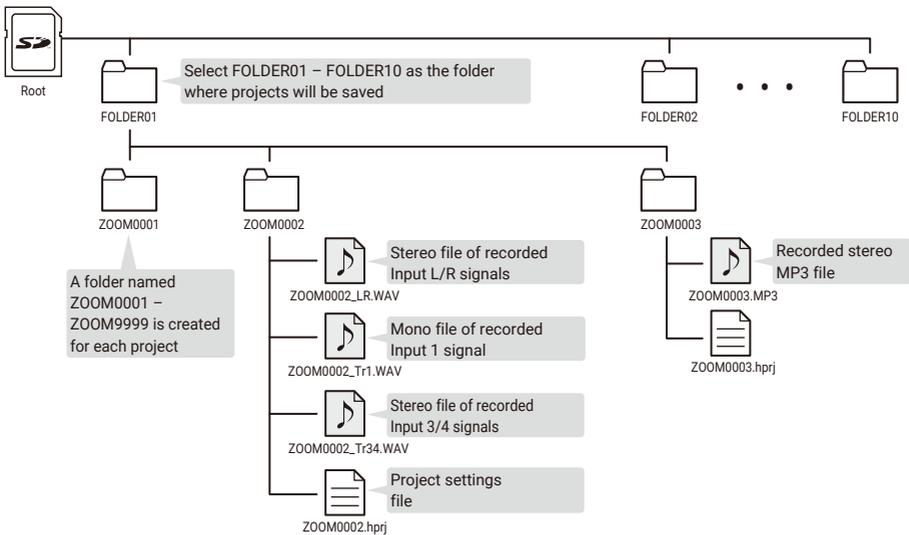
- Press to start recording and to stop
- Marks can also be added.
- Press to pause.



- Press to start playback and or to stop
- Other options include cueing from mark positions, using AB repeat playback, changing the playback speed, pitch and mode and making project mixer settings.

H6 folder and file structure

When recording with the **H6**, folders and files are created on SD cards in the following manner. The **H6** manages recording and playback data in units called projects.



Recording format settings

Consider audio quality and file size when selecting the format.

1. Select MENU > REC > Rec Format, and then select the setting.

 Open the MENU screen, go back

 Select up/down

 Confirm the item or value to set



NOTE

- WAV format is better for recording when high audio quality is important.
- Since the MP3 format uses compression, the audio quality is reduced, but the file size is smaller. This is convenient when you want to save large amounts of recordings and use less space on the SD card, for example.
- When using MP3, one stereo MP3 file is created using the mix set with the monitoring mixer.

Input and output settings

Setting input sources

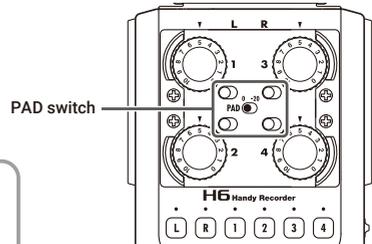
Set according to the devices connected to Inputs 1–4.

■ Connecting a mixer or other device with a +4 dBu standard output level

1. Set the corresponding PAD switches to –20.

HINT

When connecting an ordinary mic, set the PAD switch to 0.



■ Connecting condenser mics and other devices that require phantom power

1. Select MENU > INPUT&OUTPUT > Phantom > ON/OFF, and select the input to receive phantom power.



Open/Close the MENU screen



Select up/down



Confirm the item or value to set

2. Use  to select On and press .

3. Press  multiple times to return to the Home Screen.



NOTE

- When connecting devices that are not compatible with phantom power, do not turn phantom power on. Doing so could damage the device.
- When connecting a dynamic mic, phantom power does not need to be supplied.

HINT

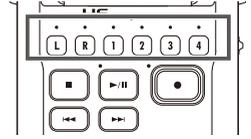
In addition to +48V, phantom power can also be set to +12V and +24V.

Enabling tracks

Select which tracks to record (L, R and 1–4).

These tracks (L, R and 1–4) correspond to the same inputs.

1. When the Home Screen is open, press the track keys for the tracks to record so that the corresponding LEDs light red.



HINT

- Press track key 2 while pressing track key 1 to link these tracks as a stereo track. This will create stereo files on the SD card. Tracks 3 and 4 can be stereo-linked in the same way.
- Stereo links can be disabled in the same manner.
- The stereo link of the L/R tracks cannot be disabled.
- When recording, files are created according to track settings in the following manner.

Track recorded	File name	Description
L/R tracks	ZOOMnnnn-LR	Stereo file
Mono track	ZOOMnnnn_Tr1 (for track 1)	Mono file
Stereo track	ZOOMnnnn_Tr34 (for tracks 3/4)	Stereo file

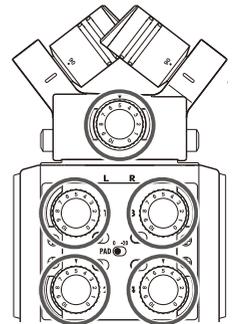
Note: “nnnn” in the file name is the project number

- All the files that are created during the same recording are managed as a single project unit by the **H6**.

Adjusting input levels (trim)

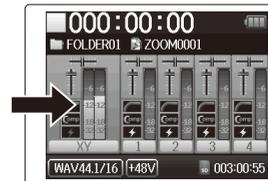
Adjust the input levels to record with high audio quality.

1. Turn  for the selected track to adjust the input level.



HINT

- Adjust so that the peak level stays around -12 dB on the level meter.
- Press  to adjust the headphone volume.

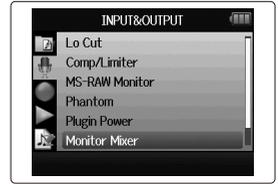


Adjusting the input signal monitoring mix

You can adjust the volume and panning of each input signal when monitoring.

1. Select MENU > INPUT&OUTPUT > Monitor Mixer in order.

-  Open/Close the MENU screen
-  Select up/down
-  Confirm the item or value to set



2. Adjust parameter settings.

-  Move cursor/change value
-  Select parameter to edit/confirm



Parameter	Setting range	Explanation
Level	Mute, -48.0 – +12.0 dB (in 0.5dB increments)	Adjusts the volume.
Pan	L100 – Center – R100	Adjusts the stereo balance of the sound.

3. Press multiple times to return to the Home Screen.

NOTE

- Press  to turn the monitor mixer on/off.
- When WAV is selected as the recording file format, these volume and pan settings only affect the monitoring signals. They have no effect on recorded data.
- The set monitoring mix is saved with the project and is also enabled during playback. The mix can also be changed during playback.

Recording

1. Press  when the Home Screen is open.

This starts recording.

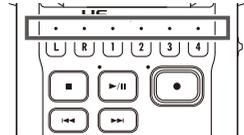


Operations during recording

Function	Control operation
Add a mark	Press 
Pause	Press 
Stop	Press 

NOTE

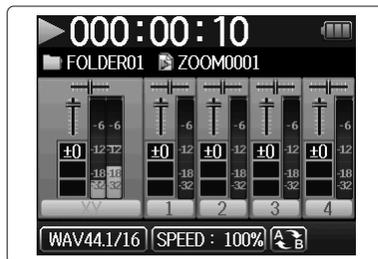
- When recording is paused, a mark is added at that point.
- A maximum of 99 marks can be added in one project.
- If the file size exceeds 2 GB during recording, a new file will be created automatically in the same project and recording will continue without pause. When this happens, numbers will be added to the ends of the file names: “-0001” for the first file, “-0002” for the second file and so on.
- Track indicators (LEDs) will blink and clip indicators will appear lit when loud sounds are input. Adjust the input level so that the clip indicators do not light.
- Clip indicators that lit during recording will turn off when recording stops.



Playing recordings

1. Press  when the Home Screen is open.

This starts playback.



■ Playback operations

Function	Control operation
Select playback project/ move to mark	Press  
Search forward/backward	Press and hold  
Pause/resume playback	Press 
Adjust the volume	Press   +/-
Add a mark	Press  

HINT

- The longer you press and hold /, the faster searching forward/backward becomes.
- During playback, press track buttons to switch between playing back (lit green) and muted (unlit).

List of functions and settings

When the Home Screen is open, press  to open the MENU screen where the following functions and settings can be used.

Item	Explanation	
PROJECT LIST	Select and play recorded projects, set the folder used to save recorded data, etc.	
INPUT& OUTPUT	Lo Cut	Set to reduce the sound of air-conditioning, wind, vocal pops and other noise.
	Comp/Limiter	Set to raise low-level input signals and attenuate high-level input signals.
	MS-RAW Monitor	When recording in MS-RAW mode, set to monitor the mid mic input on the left channel and the side mic input on the right channel.
	Phantom	Use to set phantom power supply for Inputs 1–4.
	Plugin Power	Set the supply of plug-in power to the MIC/LINE input jack built into the XY mic capsule.
	Monitor Mixer	Adjust the volume and panning of each input signal when monitoring.
	VU Meter	Show the VU meters to check input levels.
	Line Out level	Lower the output level of the LINE OUT jack. Use when inputting the output signal from the LINE OUT jack to the mic input jack of a digital SLR camera, for example.
	MS Matrix	Set to convert signals from MS format stereo mic input through Inputs 1/2 or 3/4 to ordinary stereo signals.
	REC	Rec Format
Auto Rec		Set to start and stop recording automatically in response to the input level.
Pre Rec		Set pre-recording to capture audio before recording starts.
Backup Rec		Set this to record the L/R track input signals at 12dB below the set input level as a separate file.
Project Name		Set how projects are automatically named.
Sound Marker	Set the output of tone signals from the output jacks when recording starts and stops.	
PLAY	Set AB repeat playback, the project playback mode, etc.	
PROJECT MENU	Information	Check a variety of information about the selected project.
	Voice Memo	Add voice memos to projects and play them back.
	Mark List	Show a list of the marks recorded in the project.
	Project Mixer	Adjust the volume and panning of each input signal when monitoring.
	Playback Speed	Set the playback speed to 50% – 150% (1/2× – 3/2×).
	Backup File	Set whether to play the recorded backup file instead of the regular file.
	Edit	Change project names, normalize recording volumes, and divide and trim files.
	Overdub	Add recordings to an already recorded project.
	Mixdown	Mix down a recorded project to a stereo file (WAV or MP3).
	Rebuild	Rebuild a project if necessary files are missing or broken.
Trash	Delete unwanted projects.	
TOOL	Use the tuner with input signals, and set the metronome as a guide during recording.	
SYSTEM	Date/Time	Set the date and time.
	Backlight	Set backlight power saving and adjust display brightness.
	Battery	Set the type of battery so the remaining battery charge can be shown accurately.
	Software Version	View the firmware versions.
Factory Reset	Restore the recorder to its factory default settings.	
LANGUAGE	Set the language shown on the display.	
SD CARD	Check open space on SD cards, and format and test them.	
USB	Connect to a computer, and use as an audio interface or SD card reader.	

Note: See the Operation Manual for detailed information about each setting.

Specifications

Recording media	Cards that support SD/SDHC/SDXC specifications	
Inputs L/R	XY mic: XYH-6	
	Mics	Unidirectional mics
	Sensitivity	-41 dB/Pa at 1 kHz
	Input gain	-∞ - 46.5 dB
	Maximum sound pressure input	136 dB SPL
	MIC/LINE IN (stereo mini jack)	Input gain: -∞ - 46.5 dB Input impedance: 2 kΩ Plug-in power: 2.5 V supported
	Backup recording	Input gain -12 dB
INPUTS 1-4	Connectors	XLR/TRS combo jacks (XLR: 2 hot, TRS: TIP hot)
	Input gain	-∞ - 55.5 dB (PAD OFF)/-∞ - 35.5 dB (PAD ON)
	Input impedance	1.8 kΩ or more
	Maximum permissible input level	+22 dBu (PAD ON)
	Phantom power	+12/+24/+48 V (independent ON/OFF for INPUTS 1-4)
	Equivalent input noise	-120 dBu or less
Outputs Output jacks	LINE OUT (stereo mini jack)	Rated output level: -10 dBu (into 10kΩ load)
	PHONE OUT (stereo mini jack)	Maximum output: 20 mW + 20 mW (into 32Ω load)
	Built-in speaker	400mW 8Ω mono speaker
Recording formats	When WAV selected	
	Supported formats	44.1/48/96kHz, 16/24-bit, monophonic/stereo, WAV/BWF
	Maximum simultaneous recording tracks	8 (6 + backup recording)
	When MP3 selected	
	Supported formats	48-320kbps
	Maximum simultaneous recording tracks	2
Recording time (hours and minutes)	Using 2GB card	
	3:08 (44.1kHz/16-bit stereo WAV files)	
	34:43 (128kbps stereo MP3 files)	
Display	2.0" full-color LCD (320×240)	
USB	Mass storage class: USB 2.0 High Speed Multitrack mode audio interface operation: USB 2.0 High Speed (Driver required for Windows. No driver needed for Mac.) 44.1/48/96kHz sampling rate, 16/24-bit bit rate, 6 in/2 out Stereo mode audio interface operation: USB 2.0 Full Speed 44.1/48kHz sampling rate, 16-bit bit rate, 2 in/2 out • iPad audio interface operation supported (stereo mode only) • USB bus power supported	
Estimated continuous recording time using batteries (hours and minutes)	Using alkaline batteries	
	Using XY mic, 44.1kHz/16-bit (stereo × 1)	about 21:00
	Using XY mic and Inputs 1-4, 96kHz/24-bit (stereo × 3)	about 9:45
	• The above values are approximate. • Continuous battery operation times were determined using in-house testing methods. They will vary greatly according to use conditions.	
Power	4 AA batteries AC adapter (ZOOM AD-17): 5V/1A DC (supports USB bus power)	
External dimensions	H6 : 77.8 mm (W) × 152.8 mm (D) × 47.8 mm (H) XYH-6: 78.9 mm (W) × 60.2 mm (D) × 45.2 mm (H)	
Weight	H6 : 280 g	XYH-6: 130 g

Note: When using a USB cable designed for recharging, SD card reader and audio interface functions cannot be used.



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