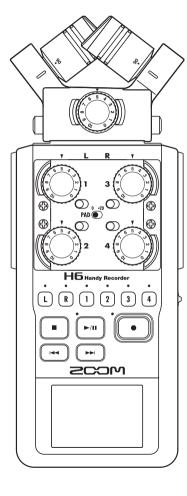


# H6 Handy Recorder

**Operation Manual** 

#### © 2013 ZOOM CORPORATION

Reproduction of this manual in whole or in part by any means without permission is prohibited.



#### Usage and safety precautions

#### SAFETY PRECAUTIONS

In this operation manual, symbols are used to highlight warnings and cautions that you must read to prevent accidents. The meanings of these symbols are as follows.

Something that could cause serious Warning injury or death

 $\wedge$ Something that could cause injury Caution or damage to the equipment

Other symbols used

An action that is mandatory An action that is prohibited

#### **Warnings**

#### Operation using an AC adapter

Use only a ZOOM AD-17 AC adapter (sold) separately) with this unit.

O Do not do anything that could exceed the ratings of outlets and other electrical wiring equipment.

Do not use with power other than AC 100V. Before using the equipment in a foreign country or other region with a power voltage other than AC100V, always consult with a shop that carries ZOOM products and use the appropriate AC adapter.

#### **Operation using batteries**

- Use 4 conventional 1.5-volt AA batteries (alkaline or nickel-metal hydride).
- Read battery warning labels carefully.
- Always close the battery compartment cover when using the unit.

#### Alterations

N Do not open the case or modify the product.

#### **∧** Precautions

#### Product handling

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

#### Operating environment

- $\infty$  Do not use in extremely high or low temperatures.
- N Do not use near heaters, stoves and other heat sources.

 $\bigotimes$  Do not use in very high humidity or where it could be splashed by water.

- N Do not use in places with frequent vibrations.
- N Do not use in places with much dust or sand.

#### AC adapter handling

- When disconnecting the power plug from an outlet, always hold the plug when pulling.
- Disconnect the power plug from the outlet during lightning storms and when not using the unit for a long time.

#### Battery handling

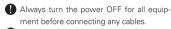
- Install the batteries with the correct +/- orientation.
- Use a specified battery type. Do not mix new and old batteries or different brands or types at the same time.
- When not using the unit for an extended period of time, remove the batteries.
- If a battery leak should occur, wipe the battery compartment and the battery terminals carefully to remove all residue.

#### Mics

Before connecting a mic, always turn the power off. Do not use excessive force when connecting a unit

When not using a mic for a long time, put the protective cap on.

#### Connection cables and input/output jacks



Always disconnect all connection cables and the AC adapter before moving the unit.

#### Volume

N Do not use at a loud volume for a long time.

#### **Usage Precautions**

Interference with other electrical equipment In consideration of safety, the H6 has been designed to minimize its emission of electromagnetic waves and to suppress interference from external electromagnetic waves. However, equipment that is very susceptible to interference or that emits powerful electromagnetic waves could result in interference if placed nearby. If this occurs, place the H6 and the other device farther apart.

With any type of electronic device that uses digital control, including the H6, 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. Never use abrasive cleansers, wax or solvents such as alcohol, benzene or paint thinner.

#### Breakdown and malfunction

If the unit becomes broken or malfunctions. immediately disconnect the AC adapter, turn the power OFF and disconnect other cables. Contact the store where you bought the unit or ZOOM service with the following information: product model, serial number and specific symptoms of breakdown or malfunction. along with your name, address and telephone number.

#### Copyrights

Windows®, Windows® 8, Windows® 7. Windows Vista® and Windows® XP are trademarks or registered trademarks of Microsoft Corporation.

Macintosh, Mac OS and iPad are trademarks or registered trademarks of Apple Inc.

The SD, SDHC and SDXC logos are trademarks

The use of MPEG Laver-3 audio compression technology is licensed from Fraunhofer IIS and Sisvel SpA.

 All other product names, trademarks and company names in this document are the property of their respective owners.

Note: All trademarks and registered trademarks in this document are for identification purposes only and are not intended to infringe on the copyrights of their respective owners.

Recording for any purpose other than personal use from copyrighted sources, including CDs, records, tapes, live performances, video works and broadcasts, without permission of the copyright holder is prohibited by law. Zoom Corporation will not assume any responsibility related to infringements of copyrights.

#### Introduction

Thank you very much for purchasing a ZOOM **H6** Handy Recorder. The **H6** has the following features.

#### • Stereo mics can be changed according to use

An XY mic that can record sound images with depth and an MS mic that allows the stereo width to be adjusted freely are included. You can switch mics according to the situation as you would switch lenses on an SLR camera.

Options include a highly-directional shotgun mic and an external XLR/TRS input.

#### • Record up to 6 track at once

In addition to the swappable stereo mic (L/R input), the main unit has 4 XLR/TRS inputs (Inputs 1–4).

Use these to simultaneously record a maximum of 6 tracks, including ambiance, narration, a stereo image and the voices of multiple performers, for example.

#### Advanced recording features

- The XY mic, which has newly-developed 14.6mm large diaphragm mics, records the full range of frequencies with good stereo placement.
- Using the L/R input mics, you can simultaneously record a backup file with a recording level that is 12 dB less than the regular recording. You can use this backup recording if an unexpected loud noise should cause the regular recording to distort, for example.

- Inputs 1–4 have increased maximum gain compared to previous models. In response to popular demand, they have independent PAD switches that allow them to easily handle +4dB input. They can also provide phantom power (+12V/+24V/+48V).
- All input volume (gain) levels can be adjusted quickly by hand using dedicated knobs.

#### • Useful operation features

- High-capacity SDXC cards can be used as recording media, allowing even longer recording times.
- The color LCD is positioned to be easy to read even when mounted on an SLR camera.
- In addition to the standard headphones output, a line output jack is built-in. This allows you to send the audio signal to a video camera or other device while monitoring with headphones.
- When the **HG** is connected by USB, in addition to card reader functions, it can be used as an audio interface that is either 2 IN and 2 OUT or 6 IN and 2 OUT (driver required for 6 IN use with Windows).
- Of course, a tuner, a metronome and playback speed and pitch adjustments are included among the useful functions that are also found in other models in the H series.
- An optional remote control (wired) is also available.

Please read this manual carefully to fully understand the functions of the **HG** so that you can make the most of it for many years. After reading the manual, please keep it with the warranty in a safe place.

#### Contents

Usage and safety precautions	02
Introduction	03
Contents	04
Included items	05
Names of parts	06
Mic overview	08
XY mic	08
MS mic	08
Connecting and disconnecting mics	09
Mic connection	09
Mic disconnection	09
Connecting mics/other devices to Inputs 1-4	10
Connecting mics	10
Connecting instruments/other devices	10
Stereo inputs	10
Connection examples	11
Optional accessories	12
Display overview	14
Home/Recording Screen	
Playback Screen	15

#### Preparations

Supplying power	16
Using batteries	16
Using an AC adapter (sold separately)	17
Loading an SD card	18
Turning the power on and off	19
Turning the power on	19
Turning the power off	19
Using the hold function	20
Activating the hold function	20
Deactivating the hold function	20
Setting the language	21
Setting the date and time	22
Setting the type of battery used	23

#### Recording

	~ 4
Recording process	24
Folder and file structure	25
Basic recording	26
Selecting the folder where projects are saved	28
Recording automatically	29
Pre-recording	31
Counting in before recording	32
Adjusting the side mic level	33
Backup recording	34
Overdubbing	35

#### Playback

Basic playback	38
Select the playback project from the list	40
Changing the playback speed	41
Repeat playback of a set interval (AB repeat)	42
Changing the playback mode	44
Changing the playback pitch (key)	45
Mixing	46

#### **Checking/editing projects/files**

Checking track marks       49         Changing project names       50         Mixing down a project       52         Normalizing tracks       54         Dividing projects       56         Trimming project beginnings and ends       58         Deleting one project       60         Deleting all projects in a folder       61         Rebuilding a project voice memo       63         Playing backup files       64	Checking project information	
Mixing down a project       52         Normalizing tracks       54         Dividing projects       56         Trimming project beginnings and ends       58         Deleting one project       60         Deleting all projects in a folder       61         Rebuilding a project       62         Recording a project voice memo       63	Checking track marks	
Normalizing tracks       54         Dividing projects       56         Trimming project beginnings and ends       58         Deleting one project       60         Deleting all projects in a folder       61         Rebuilding a project       62         Recording a project voice memo       63	Changing project names	50
Dividing projects       56         Trimming project beginnings and ends       58         Deleting one project       60         Deleting all projects in a folder       61         Rebuilding a project       62         Recording a project voice memo       63	Mixing down a project	52
Trimming project beginnings and ends       58         Deleting one project       60         Deleting all projects in a folder       61         Rebuilding a project       62         Recording a project voice memo       63	Normalizing tracks	54
Deleting one project	Dividing projects	56
Deleting all projects in a folder	Trimming project beginnings and ends	58
Rebuilding a project	Deleting one project	60
Recording a project voice memo63	Deleting all projects in a folder	61
	Rebuilding a project	62
Playing backup files64	Recording a project voice memo	63
	Playing backup files	64

#### **USB** functions

Data exchange with computers (card reader)	66
Using as an audio interface	68
Audio interface settings	70
Making direct monitoring settings	70
Using Loop Back (in stereo mix mode)	71
Mixing the inputs	72
Tools	

Using the tuner74	Ļ
Using the metronome76	;

#### Other settings

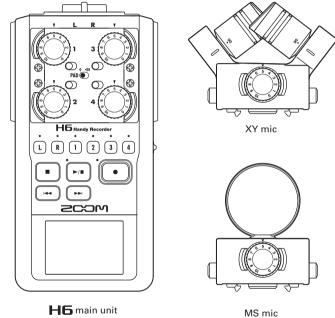
Reducing noise (low cut filter)	/8
Using the input compressor/limiter	79
Adjusting the input signal monitoring mix	80
Monitoring MS-RAW signals	82
Setting the recording format	83
Changing automatic recording settings	84
Enabling automatic stopping	85
Setting how projects are named	86
Changing the phantom power setting	87
Using plug-in power	88
Using VU meters to check input levels	89
Setting the display to save power	90
Adjusting the display brightness	91
Checking the firmware versions	92
Restoring the default settings	93

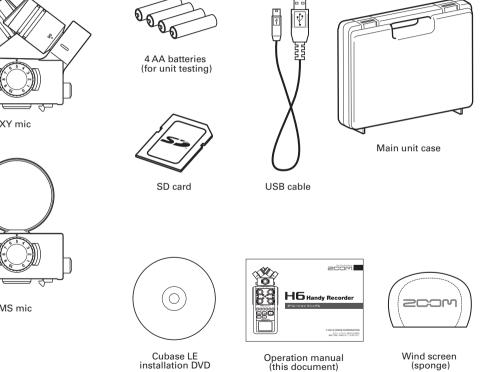
#### Other functions

Checking SD card open space	94
Formatting SD cards	95
Testing SD card performance	96
Updating the firmware	98
Using SD cards from older H series recorders	99
Using a remote control (sold separately)	100
Troubleshooting	101
Specifications	102

#### **Included items**

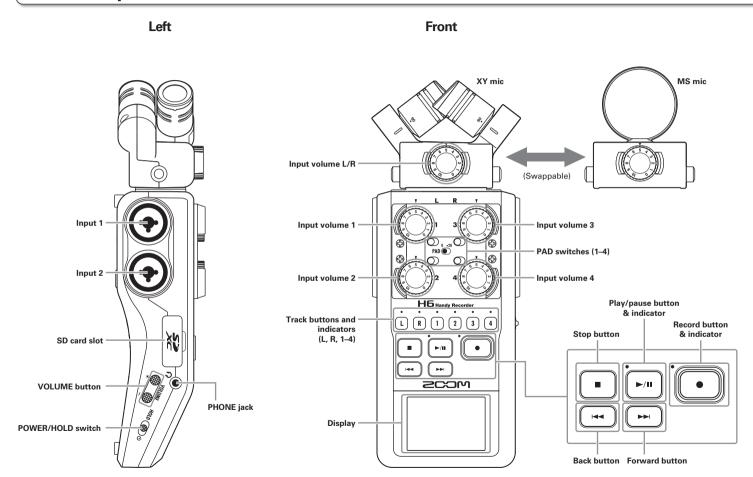
The package should contain the following items. Please confirm that they have all been included.





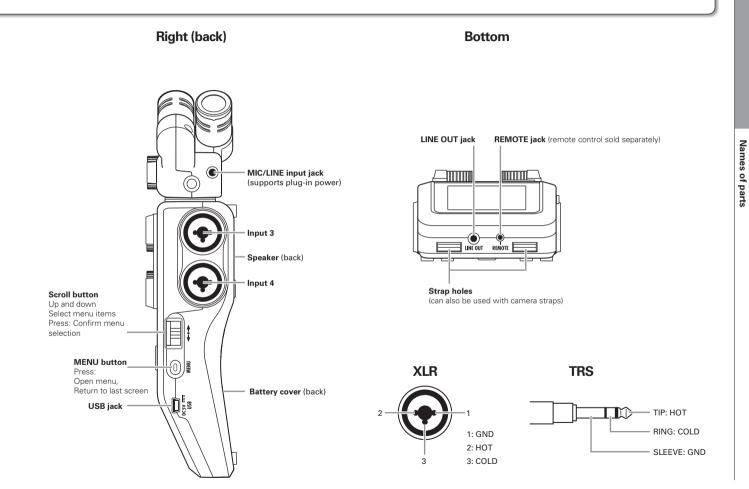
Included items

## Names of parts



Names of parts

#### **H6** Handy Recorder



#### **Mic overview**

The **HG** includes XY and MS mics. These mics can be swapped according to your need. A shotgun mic (SGH-6) and an external XLR/TRS input (EXH-6) are also available as optional accessories. ( $\rightarrow$  P.12) The input from these mics (L/R input) is recorded on the L/R tracks.

#### XY mic

This has two crossing directional mics.

By rotating the mics, you can switch the width of the recording field between 90° and 120°.

# 

#### Features:

Newly-developed large diaphragm mics enable low and high frequencies to be recorded with good stereo placement while sounds in the center are captured clearly.

This mic is ideal for recording at close and medium ranges when aimed at specific sound sources to capture a three-dimensional sound with natural depth and width.

Use examples: solo performances, chamber music, live rehearsals, field recording

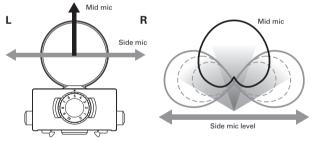
#### NOTE

The XY mic has a **MIC/LINE** input jack that can be used to connect an external mic or line-level device. This jack can also provide plug-in power to mics that use it. ( $\rightarrow$  P.88)

#### MS mic

This mic combines a unidirectional mid mic that captures sound from the center with a bidirectional side mic that captures sound from the left and right.

By adjusting the side mic level, you can change the stereo width as you like. If you record in MS-RAW mode, you can adjust the side mic level after recording to change the stereo width.



#### Features:

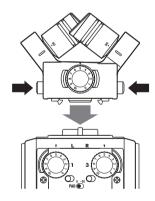
This mic can capture a wide and detailed stereo image, making it ideal for recording wide open spaces with multiple sound sources.

With the side mic off it can also be used for mono recording. Use examples: orchestras, live concerts, soundscapes Use examples with side mic off: interviews, narrations, meetings

#### **Connecting and disconnecting mics**

#### **Mic connection**

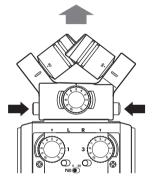
- Remove the protective caps from the H6 main unit and the mic.
- **2.** While pressing the buttons on the sides of the mic, connect it to the main unit, inserting the connector completely.



#### **Mic disconnection**

**1.** While pressing the buttons on the sides of the mic,

pull it out of the main unit.



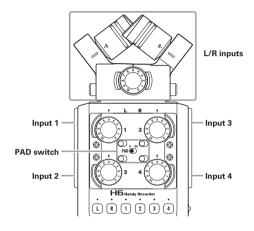
#### NOTE

- When disconnecting a mic, do not use too much force. Doing so could damage the mic or the main unit.
- Recording will stop if a mic is removed during recording.
- If a mic will not be attached for a long time, put on the protective cap.

#### Connecting mics/other devices to Inputs 1–4

In addition to the input (L/R) from an XY or MS mic, the **HG** also has **Inputs 1–4**. These can be used together to record up to six tracks at one time.

Mics, instruments and other equipment can be connected to Inputs 1-4 and recorded independently to tracks 1-4.



#### **Connecting mics**

Connect dynamic mics and condenser mics to the **Input 1–4** XLR jacks.

Phantom power (+12V/+24V/+48V) can be supplied to condenser mics. ( $\rightarrow$  P.87)

#### **Connecting instruments/other devices**

Connect keyboards and mixers directly to the **Input 1–4**TRS jacks.

Direct input of passive guitars and basses is not supported. Connect these instruments through a mixer or effects device, for example.

Set the **PAD** switch to **-20** when connecting a mixer or other device with a standard output level of +4dB.

#### **Stereo inputs**

By linking tracks 1 and 2 (or tracks 3 and 4) as a stereo tracks, **Inputs 1/2** (or **Inputs 3/4**) can be used for stereo input. ( $\rightarrow$  P.26)

In this case, **Input 1** (**Input 3**) becomes the left channel and **Input 2** (**Input 4**) becomes the right channel.

#### **Connection examples**

The **H6** allows you to record in a variety of configurations.

#### While filming

Shotgun mic

- L/R input mic: Main subject
- Shotgun/lapel mics connected to Inputs 1/2: Performer

Lapel mic )))

Δ

ففففف 

• Mics connected to Inputs 3/4: Ambient sound

ற 1)))

Lapel mic

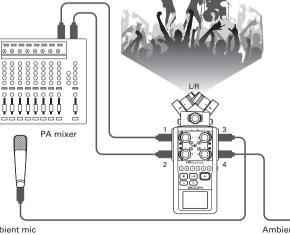
#### **Concert recording**

- L/R input mic: Performance on stage
- Inputs 1/2: Line outputs from mixer
- Mics connected to Inputs 3/4: Audience sound





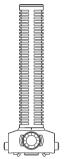
11



#### **Optional accessories**

The following optional accessories are available for use with the **H6**.

#### Shotgun mic attachment (SGH-6)



This highly-directional mic is great for capturing monophonic sound from a specific location. Use it in place of an **H6** stereo mic.

•This mic records to the L/R track in mono.

#### External XLR/TRS input (EXH-6)



Use instead of a stereo mic to give the H6 two more XLR/ TRS input jacks (L/R input).

•This does not support phantom power.

#### Accessory pack (APH-6)

This accessory pack includes the following 3 items: a remote control, a hairy windscreen and an AC adapter.

#### **Remote control (RCH-6)**

This is a wired remote control for use with the **H6**. Connect it to the **REMOTE** jack.

#### Hairy windscreen

This windscreen can be used with both the XY and  $\ensuremath{\mathsf{MS}}$  mics.

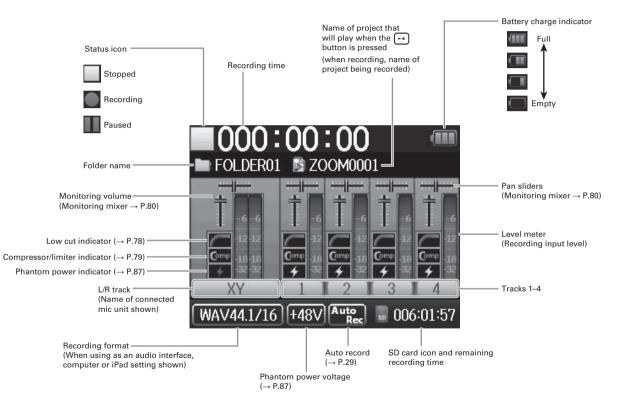
#### AC adapter (AD-17)

This AC adapter is designed for use with the **HG**. Connect it to the **USB** jack using a USB cable and plug it into an outlet.

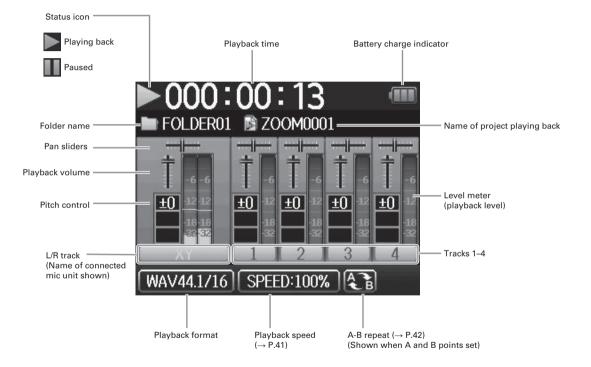


#### **Display overview**

#### **Home/Recording Screen**



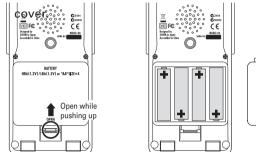
#### **Playback Screen**



#### Supplying power

#### Using batteries

**1** Turn the power off and then remove the battery



# MATTERY HBS(1.2Y)/JS(1.5Y) or MATSZE×4

OPEN

#### NOTE

- Use alkaline batteries or nickelmetal hydride batteries.
- If the battery indicator becomes empty, turn the power off immediately and install new batteries.
- Set the type of battery being used. (→ P.23)



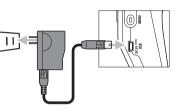
### **2.** Install the batteries.

**3.** Replace the battery cover.

#### Using an AC adapter (sold separately)

- **1.** Connect a USB cable to the USB jack.
- **2.** Plug the adapter into

an outlet.



#### Loading an SD card

# Loading an SD card

1.

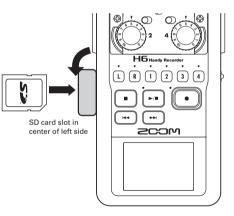
Turn the power off and then open the SD card slot

cover.

**2.** Insert the card in the slot.

To eject an SD card:

Push the card further into the slot and then pull it out.



#### NOTE

• Always turn the power off before inserting or removing an SD card.

Inserting or removing a card while the power is on could result in data loss.

- When inserting an SD card, be sure to insert the correct end with the top side up as shown.
- When an SD card is not loaded, recording and playback are not possible.
- See "Formatting SD cards" ( $\rightarrow$  P.95)

#### Turning the power on and off

#### Turning the power on

Slide HOLD () to the right.



#### NOTE

- The first time you turn the power on after purchase, you must set the language ( $\rightarrow$  P.21) and date/time ( $\rightarrow$  P.22). You can also change these settings later.
- If "No SD Card!" appears on the display, confirm that the 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 correctly formatted for use with this recorder. Format the card or use a different card. See "Formatting SD cards". (→ P.95)

#### Turning the power off

Slide 🕬 🌐 to the right.



#### NOTE

Keep holding the switch to the right until the ZOOM logo appears.

Preparations

#### Using the hold function

The H6 has a hold function that can be used to disable the buttons in order to prevent accidental operation during recording.

----

. 005:59:08

#### Activating the hold function

Slide HOLD (●) © to the left.

WAV/441/16 +48V

#### Deactivating the hold function

Slide 🕬 🌐 to the center.

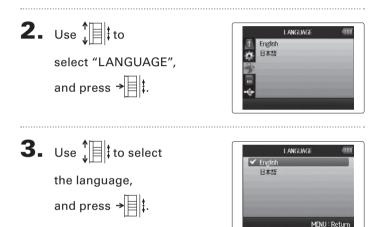
#### NOTE

The hold function does not affect the remote control (sold separately). Even when hold is active, the remote can still be used.

#### Setting the language\*

The language shown on the display can be set to English or Japanese.

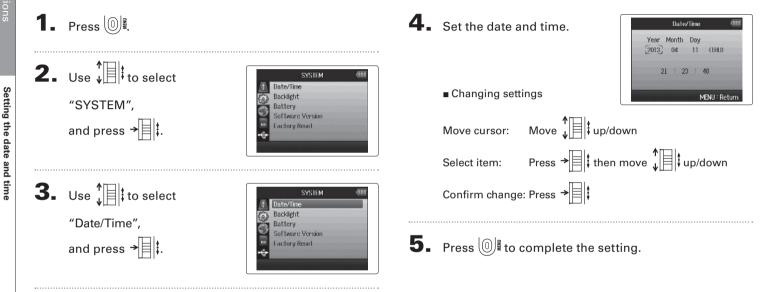
1. Press 0



\*The first time you turn the power on after purchase, you must set the language and date/time.

#### Setting the date and time\*

When the date and time are set, the recorder can store accurate recording date and time information in files.

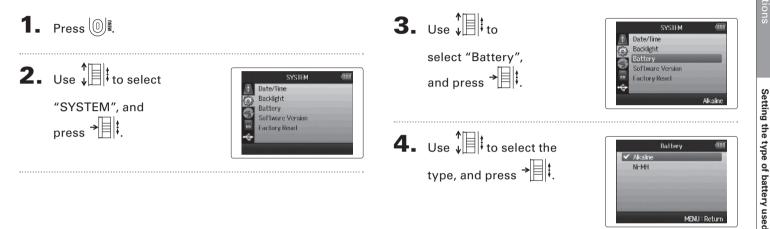


\*The first time you turn the power on after purchase, you must set the language and date/time.

MENU : Return

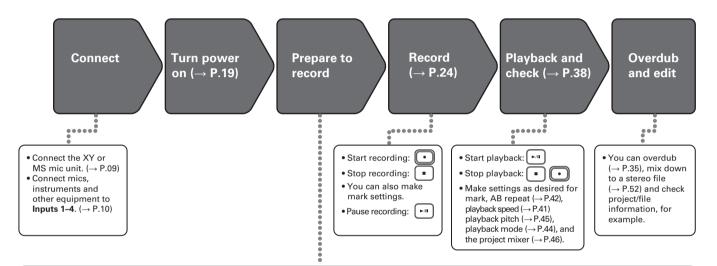
#### Setting the type of battery used

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



#### **Recording process**

The recording process includes the following steps. With the **HF**, a unit of recording/playback data is called a project.



- 1. Set the recording format (WAV/MP3).  $(\rightarrow P.83)$
- When set to MP3, a stereo mix will be recorded regardless of the number of tracks.
- $\bullet$  You can also make automatic recording (  $\to$  P.29), pre-recording (  $\to$  P.31), backup recording
- $(\rightarrow$  P.34), low cut  $(\rightarrow$  P.78), compressor/limiter  $(\rightarrow$  P.79) and metronome  $(\rightarrow$  P.76) settings, for example.

#### 2. Select recording tracks ( $\rightarrow$ P.26)

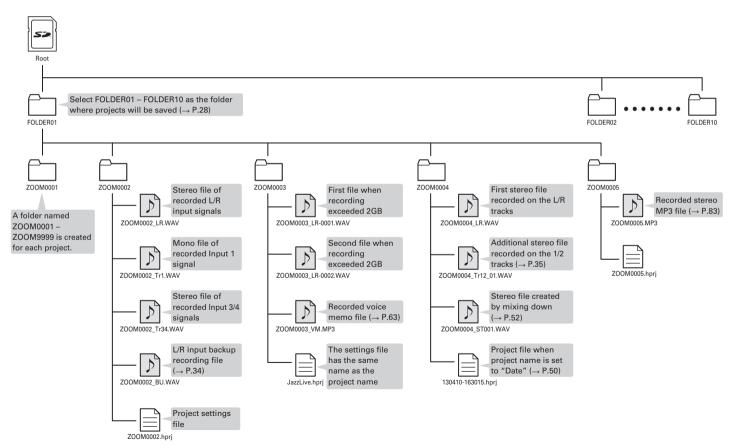
- Use the track buttons to select. When the selected track indicator lights red, the input signal can be monitored.
- Press two track buttons at the same time to use them as a stereo track (stereo link).

#### 3. Adjust input levels

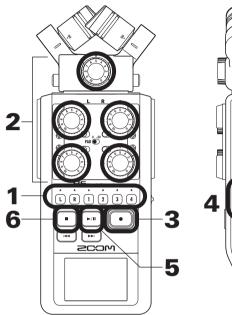
- Use the () for each input.
- Adjust so that the level meter stays in the yellow when the loudest sound is input.
- When connecting a device with a standard output level of +4 dB or the level stays too high for any other reason, set the PAD switch to -20.
- You can also adjust the side mic level (when using the MS mic unit) ( $\rightarrow$  P.33) and show the VU meters ( $\rightarrow$  P.89), for example.

#### Folder and file structure

When recording with the **H6**, the following folders and files are created on the SD card.



#### Basic recording





**1.** Press the button of the track that you want to record.

#### HINT

- The indicator of the selected track button lights red.
- If you press track button 2 while pressing and holding track button 1, tracks 1/2 will become a stereo track (stereo link). Tracks 3/4 can be made into a stereo track in the same way. Stereo links can also be deactivated in the same way. The L/ R track stereo link, however, cannot be deactivated.

#### HINT

• When recording, files are created for each selected track button as follows.

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

Note: "nnnn" in the file name is the project number

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



input to adjust the input



#### HINT

level.

- Adjust so that the peak level stays around -12dB.
- You can change the recording format. ( $\rightarrow$  P.83)
- $\bullet$  You can cut noise from wind and other sources during recording. (  ${\rightarrow}$  P.78)



recording.



**4.** Press → **t** to add a mark.

## **5.** Press **•** to pause.

#### NOTE

When recording is paused, a mark is added at that point.

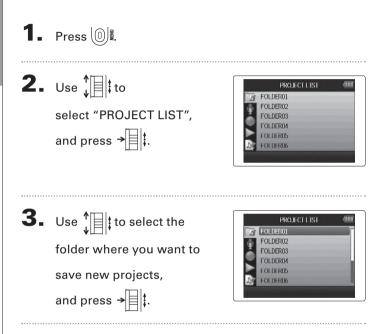
## 6. Press • to stop recording.

#### NOTE

- A maximum of 99 marks can be added to a single project.
- During recording if the file size exceeds 2 GB 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.

#### Selecting the folder where projects are saved

Choose one of ten folders as the folder where new recorded projects will be saved.





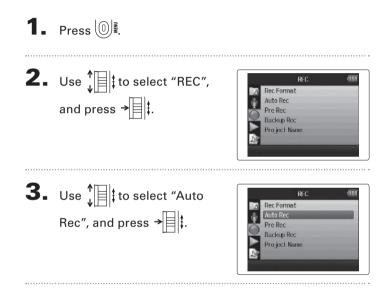
folder selection and return

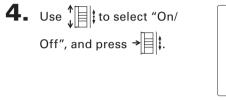
to the Home Screen.



#### **Recording automatically**

Recording can be started and stopped automatically in response to the input level.

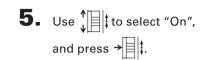








#### Recording automatically (continued)





0:00:00 Wait for signal

#### NOTE

For details, see "Changing automatic recording function settings". ( $\rightarrow$  P.84)



#### **6**. Return to the Home



to put the recorder into

standby.

#### HINT

When the input exceeds the set level (shown on the level meters), recording starts automatically. You can also set the recording to stop automatically when the input goes below a set level. ( $\rightarrow$  P.85)

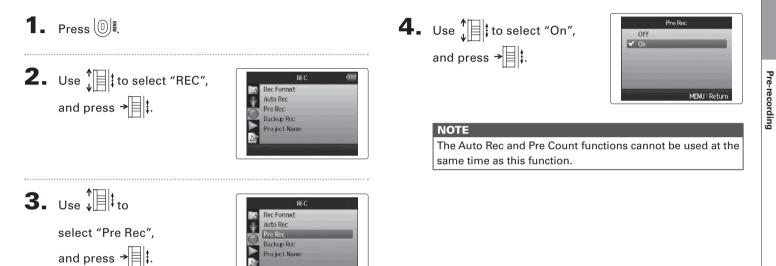
7. Press • to exit standby

or stop recording.



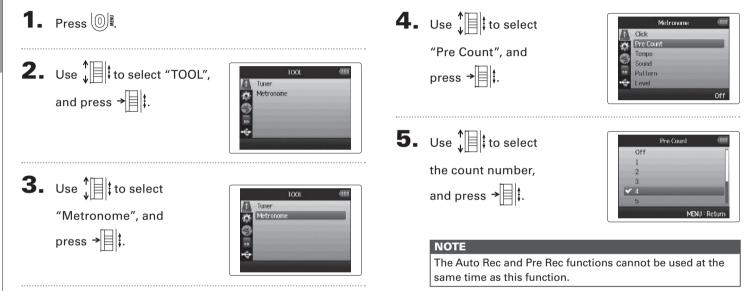
#### **Pre-recording**

By setting the recorder to constantly capture the input signal, you can start recording two seconds before pressing the button. This is useful when, for example, a performance starts suddenly.



#### Counting in before recording

The recorder metronome can be used to count in before starting recording.



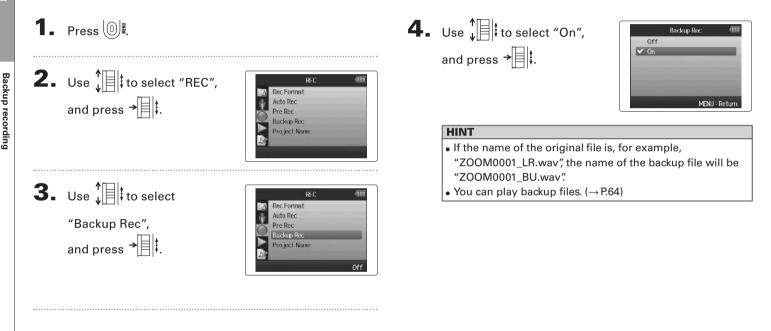
Before using the MS mic to record, you can adjust the side mic level (stereo width). Do this when the Home Screen is open.

^∏□] <b>,</b>		NOTE
Move $\mathbf{I}$ in the pand down to adjust	t.	• Set to Off, -24 to +6 dB, or RA
Side Mic Level∶ RAW	RAW mode	<ul> <li>When recording in RAW modup and down to adjust the side</li> <li>RAW mode can be selected of for recording.</li> </ul>
Side Mic Level : +6	Wide	
Side Mic Level : 0	lcon changes	
Side Mic Level : -12	with the value	
Side Mic Level : Off	Narrow	

- AW.
- de, during playback move  $\mathbf{v}$
- only when the WAV format is used

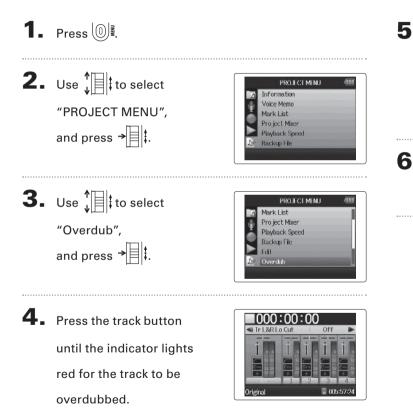
#### Backup recording L/R input and

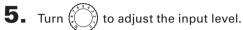
When using the L/R input, in addition to the recording at the set input level, the recorder can also record a separate file at a level 12dB below. This backup can be used if the recording level was set too high, causing distortion, for example.



#### Overdubbing

You can add recordings to an already recorded project.





#### HINT

You can also adjust the mixer (volume/pan) ( $\rightarrow$  P.46), low cut filter ( $\rightarrow$  P.78) and compressor/limiter as needed ( $\rightarrow$  P.79).

**6.** To monitor already recorded tracks, press their track

buttons so their indicators light green.

#### NEXT >>>

Overdubbing

#### **Overdubbing** (continued) WAV format only

**7.** Press • to start recording.

#### 8. Press • to stop recording.

#### HINT

- You can change the stereo link setting even during overdubbing.
- Overdub files and volume, pan and stereo link settings are saved in units called "takes". You can change settings and record multiple takes.

Then, when stopped you can press 🐨 to select the previous take or press 🐨 to select the next take.

- A maximum of 99 takes can be recorded.
- If you want to monitor the input sound of the track while playing back an already recorded track, press the button for the track that you want to monitor so that its indicator lights orange and then press [---].
- If the playback speed of a project is set to any value other than 100%, tracks cannot be overdubbed (their indicators will not light red).

### **9.** Press <sup>1</sup> to stop overdubbing.

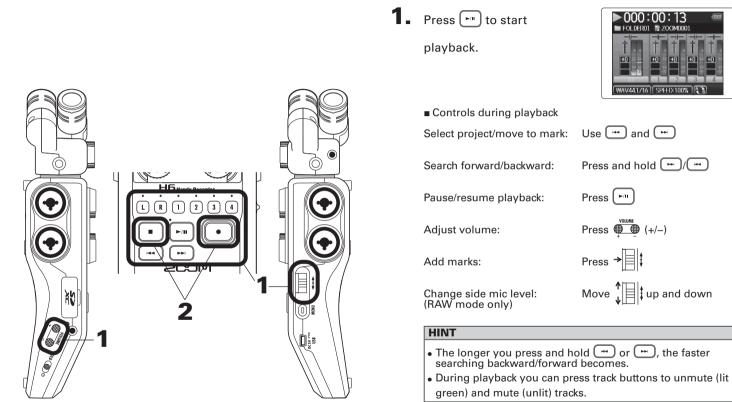
When you play back or edit an overdubbed project, the last selected take will be used.

#### NOTE

Two digit take numbers are added to the ends of track names to create file names for overdubbed recordings as in, for example, "ZOOM0001\_LR\_01.WAV".

## H6 Handy Recorder

## **Basic playback**

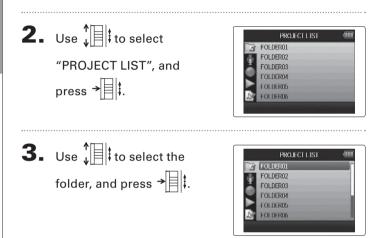


return to the Home Screen.

1 44		
C = 1 11	Cent 10 (Cent 10	C = 1 C = 1
XY	2	3 4
WAV44.1/16	+48V Auto Res	se 006:01:57

# Select the playback project from the list

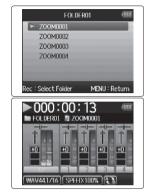
# **1.** Press 0 .



**4.** Use to select the

project you want to play back, and press →

The selected project will start playing back.



## NOTE

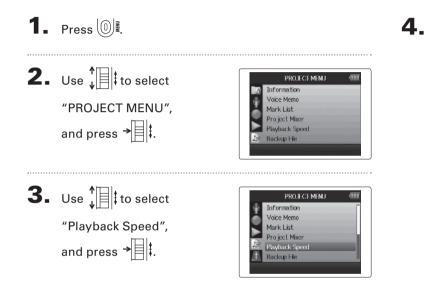
After playback completes, playback might continue depending on the playback mode. ( $\rightarrow$  P.44)

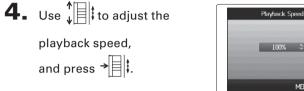
100%

MENU: Return

# Changing the playback speed

You can adjust the playback speed in a range from 50% to 150% of normal.





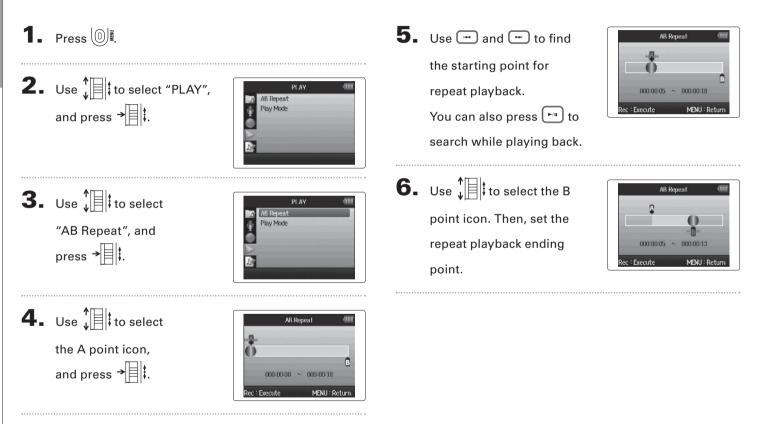
Playback will occur at the adjusted speed.

#### NOTE

This setting is saved separately for each project.

# Repeat playback of a set interval (AB repeat)

You can repeat playback between two set points.



# 7. Press 💽 to open the

playback screen.

Repeat playback will start between the set points.



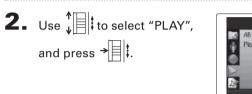
## NOTE

- To end AB repeat playback, follow the instructions on P.42 to select "AB Repeat" and then press •.
- During repeat playback, AB repeat will end if you press
  - 🕶 or 📻 to select a different project.

## Changing the playback mode

**1.** Press 0

You can set the playback mode.





3. Use ↓ to select "Play mode", and press → ↓ .

	PLAY	(11
AB Rep	peat	
Play M	lode	
-		
		Play One

**4.** Use 1 to select the

mode, and press →

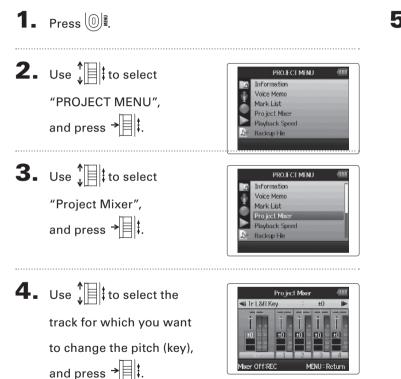


NOTE	
Play All:	Play all the projects in the current folder.
Play One:	Play only the selected project.
Repeat One:	Play the selected project repeatedly.
Repeat All:	Play all the projects in the current folder
	repeatedly.

Changing the playback pitch (key)

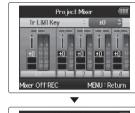
# Changing the playback pitch (key)

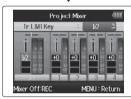
The pitch can be changed in semitones for each track separately while keeping the same playback speed.





and press →





### NOTE

This can be set between b6 and #6.

Playback will occur with the changed pitch.

#### HINT

This pitch setting is saved separately for each project.

#### Mixing WAV format only

You can use the Project Mixer to adjust the balance of the playback tracks. 1. Press 0 **4.** Change parameters as desired. **2.** Use to select PROJECT MENU Information Mixing Voice Memo Mixing controls "PROJECT MENU", Mark List Project Mixer and press → □ . Playback Speed Move cursor/change value: Backup File Select parameter to change: **3.** Use to select PROJECT MENU Information Parameter Voice Memo "Project Mixer", Mark List Volume Pro ject Mixer and press → Playback Speed Backup File Panning Pitch (key) b6- **#**6

Pro ject Mixer ITr L&R Pan Center Mixer Off:REC MENIL: Ret

Move Press →

Setting range Explanation Mute, -48.0 - +12dB Adjusts track volume (in 0.5dB increments) Adjusts left-right L100 – CENTER – R100 position of sound. Adjusts playback pitch without changing playback speed.

# Mixing

# 5. Press 💽 to listen to

the project without mixer adjustments.

Pressing this button turns the mixer settings on and off.

## NOTE

• Mix settings are saved with each project separately and applied during playback.

Project Mixer Mixer Off

Mixer On:REC

MENU : Return

• Use the Monitor Mixer to adjust the balance when monitoring inputs. ( $\rightarrow$  P.80)

Checking project information

# **Checking project information**

You can check information about the selected project.

1. Press 0 **2.** Use to select PROJECT MENU Information Voice Memo "PROJECT MENU", Mark List Project Mixer and press → Playback Speed Backup Hie **3.** Use to select PROJECT MENU Voice Memo "Information", Mark List Pro ject Mixer and press → to view Playback Speed Backup File information about the project.  $\mathbf{\nabla}$ PROJECT MENU Use to scroll down Project Name < ZOOM0001 FOLDER01\ZOOM0001 Path Take 1/5 to see information hidden Recording Files : XY 1\_23\_4 Backup existing below the bottom of the Date/lime 2013/08/17 14:25:22 MENU : Return screen.

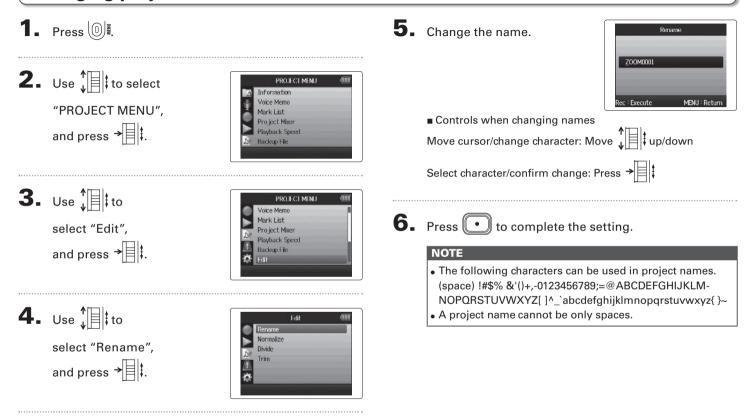
# **Checking track marks**

A list of marks in the recorded project can be shown.

```
1. Press 0 .
2. Use to select
                                                           PROJECT MENU
                                                       Information
                                                       Voice Memo
        "PROJECT MENU",
                                                       Mark List
                                                       Project Mixer
       and press \rightarrow
                                                       Playback Speed
                                                      Backup File
3. Use to select
                                                           PROJECT MENU
                                                       Information
                                                       Voice Memo
        "Mark List",
                                                       Mark List
                                                       Project Mixer
       and press → to open
                                                       Playback Speed
                                                       Backup File
        the mark list.
                                                               •
                                                             Mark List
                                                                000:00:04
                                                         · 01
                          Mark user added
                                                         1 02
                                                                000:00:06
                                                                000:00:09
                                                           03
                  Mark added when a gap
                                                         P 04
                                                                000:00:11
                     occurred in the sound
                                                         05
                                                                000:00:14
                          during recording
                                                         E 06
                                                                000:00:17
                                                                  MENU : Return
```

Changing project names

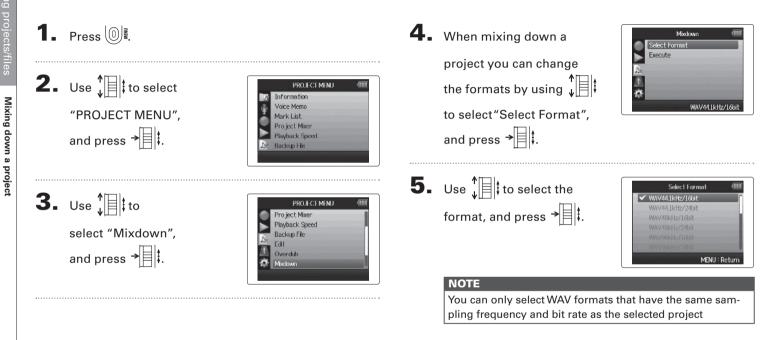
## **Changing project names**



Changing project names

## Mixing down a project WAV format only

You can mix down a project that has been recorded using WAV format into a stereo file (WAV or MP3).



# Mixing down a project

6. Use ↓ ↓ to select
"Execute", and press → ↓ ↓
to start the mixdown.



## NOTE

- The mixdown file will be created in the same folder.
- If the SD card does not have enough open capacity, the recorder will return to the Mixdown screen.
- The file created by the mixdown will be named after the original project with a three digit number added to the end, as in "ZOOM0001\_ST001". If you mix down the same project again, this number will increase by one.
- During mixdown, the volume, pan and track status (button) settings made using the project mixer (→ P.46), as well as the playback speed (→ P.41), will affect the sound of the mixdown.

Normalizing tracks

Normalizing tracks

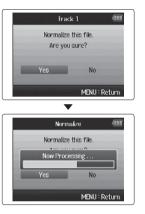
#### **4.** Use $\downarrow$ to 1. Press 0 Edit Rename select "Normalize". Divide **2.** Use to select and press → PROJECT MENU Information Voice Memo "PROJECT MENU". Mark List Pro ject Mixer and press → Playback Speed Backup Hie **5.** Use to select the Normalize Track L&R Track J track that you want to Track 2 Track 3 **3.** Use to select "Edit", PROJECT MENU Track 4 normalize. Voice Memo Backup I &R and press → Mark List MENU: Return Pro ject Mixer Playback Speed Backup File NOTE You cannot select a track that has no recorded file. • If you select "All", all tracks that have files will be normalized.

WAV format only

If the volume of a project recorded using WAV format is too low, you can increase the overall level of the file.

# Normalizing tracks

6. Use ↓ to select "Yes", and press → ↓ to start normalization.

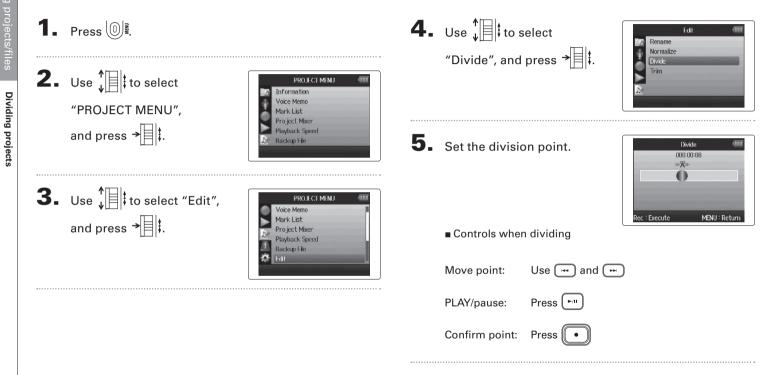


## NOTE

When normalized, the level of the entire file will be increased by the same amount so that the peak level is 0 dB

# **Dividing projects**

You can divide a project into two new projects at any point.



**Dividing projects** 

# 6. Use ↓ ↓ to select "Yes", and press → ↓.



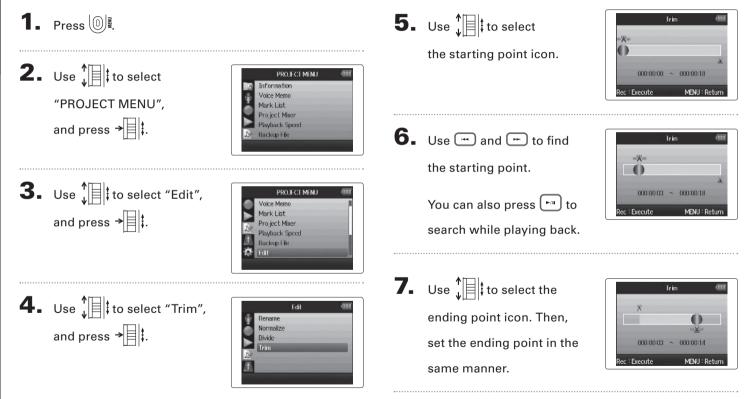
## NOTE

- After dividing a project, the part before the division point will be given the same name as the original project with "A" added to the end. The part after the point will have "B" added to the end of its name.
- If you have made additional recordings and have multiple takes, the current take will be divided. All other takes will be saved with the original project.
- The original take is deleted.

Trimming project beginnings and ends

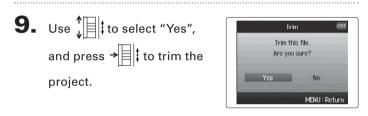
# Trimming project beginnings and ends

You can delete (trim) unnecessary beginnings and endings of recorded projects. To do so, you will set the beginning and ending points of the part to be kept.



Trimming project beginnings and ends

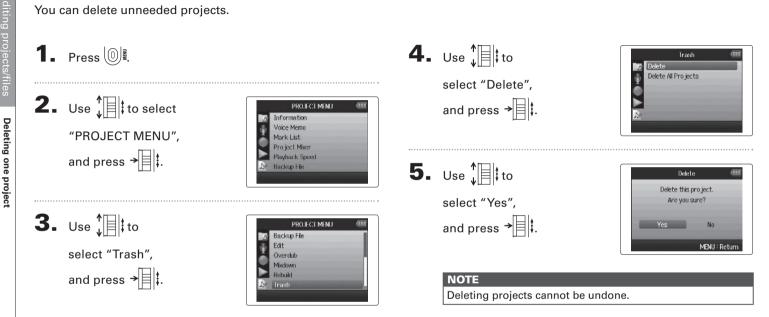
# **8.** Press •.



### NOTE

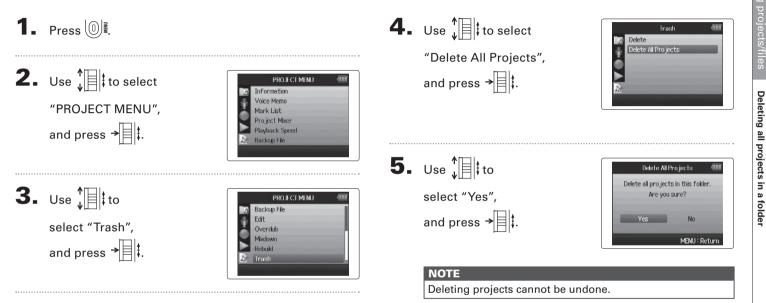
If you have made additional recordings and the project has multiple takes, the current take will be trimmed.

## **Deleting one project**



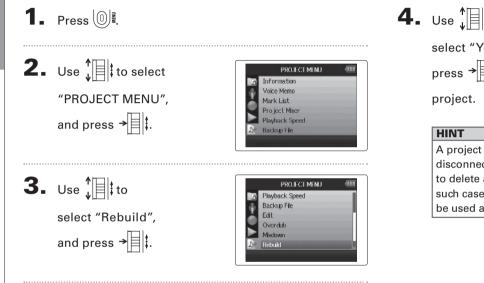
## Deleting all projects in a folder

You can delete all the projects in one folder at the same time.



## **Rebuilding a project**

If a project is missing necessary files or is damaged, you can try rebuilding it.



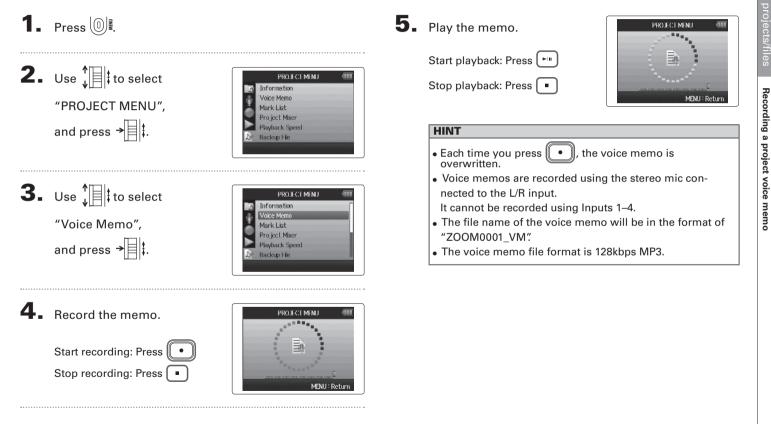
Use ↓ to	
select "Yes", and	
press → 📕 ‡ to rebuild the	
project.	



A project will not play back if, for example, you accidentally disconnect the adapter while recording or use a computer to delete a setting file that is necessary for the project. In such cases, rebuilding the project might repair it so it can be used again.

# Recording a project voice memo

You can add a voice memo to a project.



Playing backup files

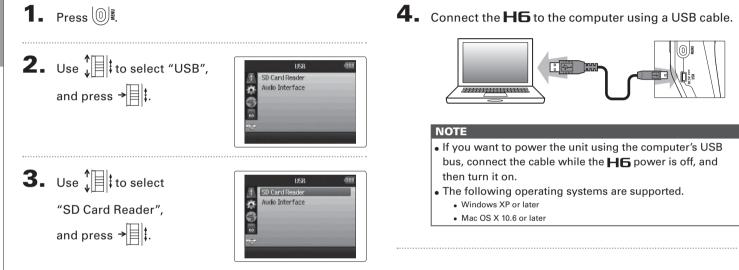
#### **4.** Use to 1. Press 0 Backup File Off 🗸 On select "On", **2.** Use to select and press → □ ‡. PROJECT MENU Information Voice Memo MENU : Return "PROJECT MENU", Mark List Pro ject Miser In this state, when you press , the backup file and press → Navback Speed Backup Hie will play back instead of the normal file for track L/R. **3.** Use ↓ to PROJECT MENU Information Voice Memo select "Backup File", Mark List Pro ject Mixer and press → Playback Speed Backup File Off

If you have made a backup recording, you can play the backup file instead of the normal file.

Playing backup files

# Data exchange with computers (card reader)

By connecting with a computer, you can check and copy data on the SD card.



**5.** Follow the procedures for your computer when you

want to disconnect.

Windows:

Use "Safely Remove Hardware" to select the **H6**. Macintosh:

Drag-and-drop the **H6** icon into the trash.

## NOTE

• Always follow these procedures before disconnecting the USB cable.

**6.** Disconnect the cable from the computer

and the H6, and then press 0

## Using as an audio interface

You can send signals input through the **H6** directly to a computer or iPad as well as output signals from that device through the **H6**.

**1**. Press 0 . **2.** Use to select "USB", USB SD Card Reader and press → Audio Interface **3.** Use to select USP SD Card Reader udio Interface "Audio Interface". and press → 🗐 ‡. **4.** Use to select "Stereo Audio Inter Face Stereo Mix Multi Track Mix" or "Multi track". and press → ■ ‡.

## NOTE

- Set to "Stereo Mix," it is a 2 in/2 out interface. Set to "Multi Track" it is a 6 in/2 out interface.
- With an iPad, use Stereo Mix mode. It will not work with MultiTrack mode.
- When using Stereo Mix mode you can use the recorder's mixer to mix all track inputs to stereo. (→ P.72)
- When using Windows, a driver is necessary to use Multi Track mode. You can download this driver from the ZOOM website (www.zoom.co.jp).

# **5.** Use to select

"PC/Mac", "PC/MAC using battery power" or "iPad using battery power", and press →



## HINT

- When using a computer that does not provide enough power through its USB bus and when using phantom power, select "PC/Mac using battery power".
- The "iPad using battery power" setting uses the batteries in the recorder.





NOTE

An iPad Camera Connection Kit is necessary to connect an iPad.

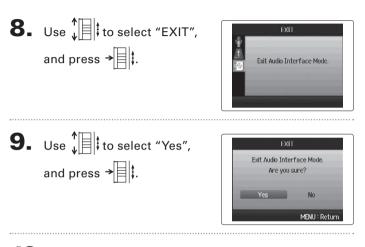
## HINT

See "Audio interface settings". ( $\rightarrow$  P.70)

**7.** Press **1** to disconnect.

\*\*\*\*\*





**10.** Disconnect the cable from the computer or iPad

and the **H6**, and then press 0

## Audio interface settings

When using the **H6** as an audio interface, you can make the following settings. Refer to each section for details.

Input settings	Low cut filter ( $\rightarrow$ P.78)
	Compressor/limiter ( $\rightarrow$ P.79)
	Direct monitoring ( $\rightarrow$ P.70)
	MS-RAW monitoring ( $\rightarrow$ P.82)
	Phantom power ( $\rightarrow$ P.87)
	Plug-in power (→ P.88)
	Loop Back function ( $\rightarrow$ P.71)
	Mixer ( $\rightarrow$ P.72)
	VU meters ( $\rightarrow$ P.89)
Tool	Tuner ( $\rightarrow$ P.74)

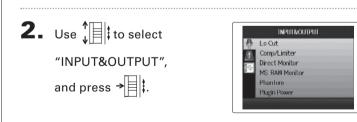
## Making direct monitoring settings

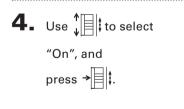
Sound that is input to the **H6** can be output directly before it passes through the connected computer or iPad. This enables monitoring without latency.

Use ↓ ↓ to select
"Direct Monitor",
and press → ↓ ↓.



**1**. Press 0



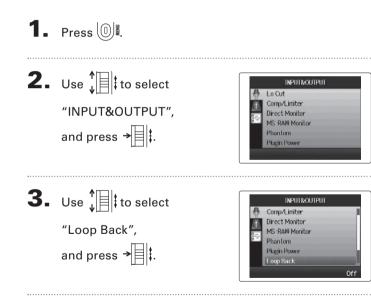




# Audio interface settings

## Using Loop Back (in stereo mix mode)

When in stereo mix mode, you can mix the sound from the computer or iPad with the sound input in the **HG** and send it back to the computer or iPad again (loop back). This can be used, for example to add narration to a musical backing track playing on the computer and then record using software on the computer or stream it live via the Internet.



-	Use 📲 to select
	"On", and
	press → 🗐 ‡.

Δ



## Audio interface settings (continued)

## Mixing the inputs

You can adjust the mix of the inputs. The results of this mix are input to a computer or iPad. When in stereo mix mode, the resulting stereo mix is sent.

**1.** Press 0

2. Use ↓ to select "INPUT&OUTPUT", and press → ↓.

Use ↓ ↓ to
 select "Mixer",
 and press → ↓ ↓.

		_
	INPUT&OUTPUT	
<b>8</b>	Direct Monitor	L
ABA.	MS-RAW Monitor	4
	Phantom	L
色	Plugin Power	L
	Loop Back	L
	Mixer	ł.

INPUT&OUTPUT

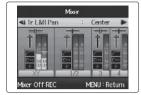
Lo Cut

Comp/Liniter

Direct Monitor MS\_RAW Monitor

Phantom Phantom **4.** Change the parameter

settings as desired.



Mixer Mixer Off

MENU: Retu

Mixing controls

Move cursor/change value:



fixer On:REC

Select parameter to change:



**5.** Press • to listen to

the project without mixer

adjustments.

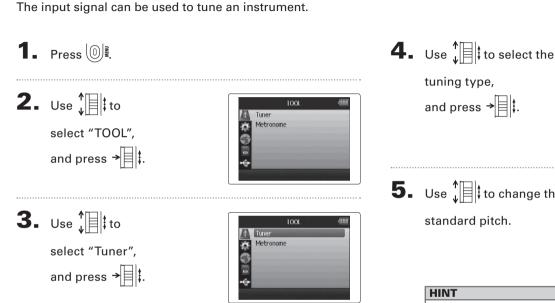
Pressing this button turns the mixer settings on and off.

#### HINT

The same mix settings are saved and used for both stereo mix and multi track modes.

# H6 Handy Recorder

# Using the tuner



Tuner Chromatic Guitar Bass Open A Open D Open F MENU: Return

**5.** Use to change the

standard pitch.

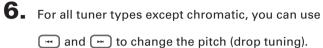


#### HINT

The standard pitch can be set in a range between 435Hz-445Hz.



Using the tuner





You can drop the tuning by up to three semitones.



7. Press a track button to select the input to use.

# 8. Use the tuner according to the type as follows

Chromatic tuner The input is detected automatically and the name of the nearest note and the pitch inaccuracy are shown.

Center lights when pitch accurate



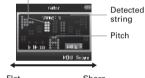
Sharp

Flat

Guitar/bass tuner The number of the string you are

tuning is automatically detected, allowing you to tune them one at a time.

Center lights when pitch accurate

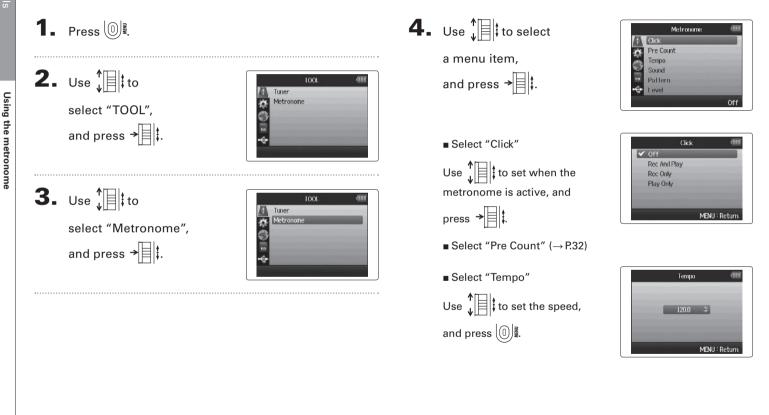


	Gattar 💷	Detec
	String: 5	string
	5  4 222 <b>440  2</b> =	Pitch
Ļ	MD:U : Return	•
Flat	Sh	arp

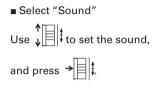
Tuner type	String number/note name						
	1	2	3	4	5	6	7
Guitar	E	В	G	D	Α	E	В
Bass	G	D	Α	E	В		
Open A	E	C#	Α	E	Α	E	
Open D	D	Α	F#	D	Α	D	
Open E	E	В	G#	E	В	E	
Open G	D	В	G	D	G	D	
DADGAD	D	Α	G	D	А	D	

## Using the metronome

Use the metronome to count in before recording or as a click track.

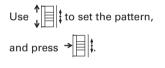


## H6 Handy Recorder

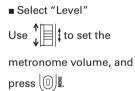




Select "Pattern"



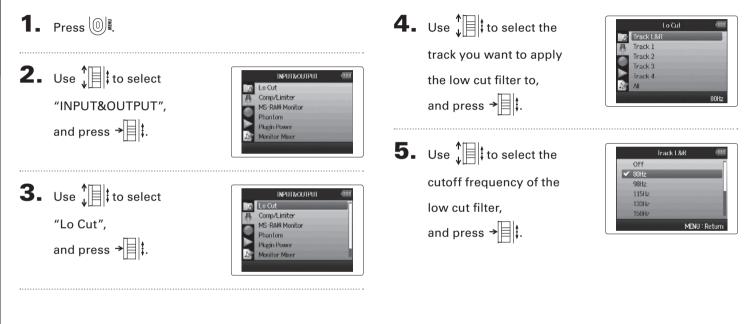
	Pattern	
0/4		
1/4		
2/4		
3/4		
✓ 4/4		
5/4		
	MENI	J:Return





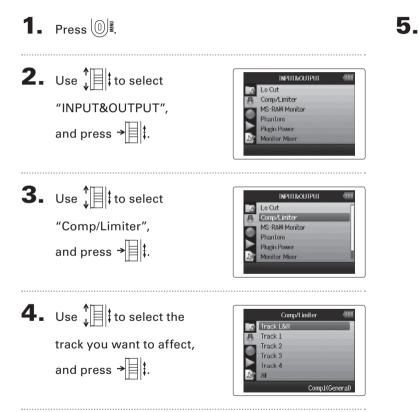
# **Reducing noise (low cut filter)**

Use the low-cut filter to reduce wind noise and vocal pops, for example.



# Using the input compressor/limiter

Use the compressor/limiter to raise low-level input signals and lower high-level input signals.



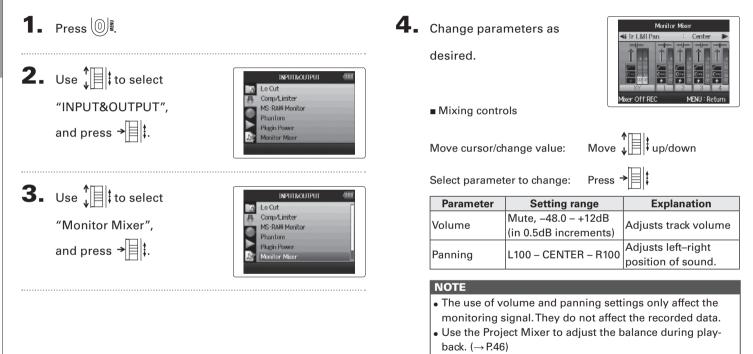
Use 🚺 to select the	
type of compressor/limiter,	
and press → 📄 ‡.	
	<u> </u>



Setting	Explanation			
Off	Compressor/limiter OFF			
Comp1	Standard compressor	Compressors		
(General)		reduce high lev-		
Comp2	Compressor for vocals	els and raise low		
(Vocal)		levels.		
Comp3	Compressor for drums			
(Drum)	and percussion			
Limiter1	Standard limiter	Limiters reduce the		
(General)		level when input		
Limiter2	Limiter for live	signals exceed a		
(Concert)	performances	set level.		
Limiter3	Limiter for studio			
(Studio)	recording			

# Adjusting the input signal monitoring mix

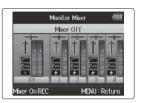
You can adjust the level and panning of each input signal for the monitoring mix.



# 5. Press 💽 to listen to

the project without mixer adjustments.

Pressing this button turns the mixer settings on and off.

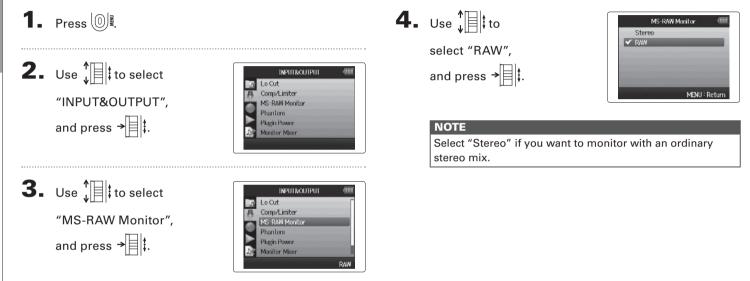


#### NOTE

These mix settings are saved with each recorded project separately. Mix settings can also be applied during playback. ( $\rightarrow$  P.46)

# Monitoring MS-RAW signals MS-RAW mode only

When recording in MS-RAW mode, you can monitor the mid mic input through the left channel and the side mic input through the right channel.



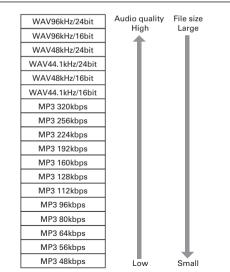
# Setting the recording format

Set the format according to the desired audio quality and file size.

#### **1**. Press [0]₫. **2.** Use to select Rec Format Auto Rec "REC". Pre Rec Backun Rec and press → Project Name **3.** Use to select REC Auto Rec "Rec Format". Pre Rec Backup Rec and press → Project Name WAV44.1kHz/16bit **4.** Use to select the Rec Format ✓ WAV44.1kHz/16bit WAV44.1kHz/24bit desired format, WAV48kHz/16bit WAV48kHz/24bit and press → ■ ‡. WAV96kHz/16bit WAV96kHz/24bit MENU : Return

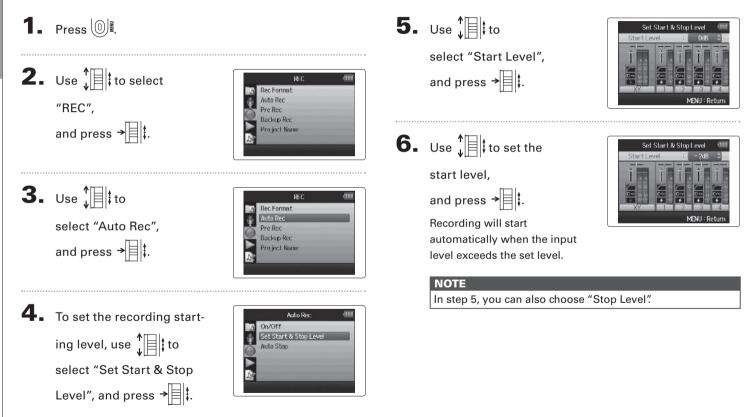
#### NOTE

- Use the WAV format for recording high-quality audio.
- The MP3 format reduces file size through compression, which also reduces the audio quality. Use this format if you need to conserve space on the SD card to store many recordings, for example.
- When recording in MP3 format, a single stereo MP3 file will be created regardless of the number of tracks selected. You can use the monitoring mixer to adjust the balance of all the tracks in the stereo mix. (→ P.80)



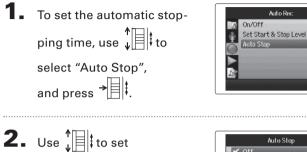
# Changing automatic recording settings

You can set the input levels that cause automatic recording to start and stop.



# Changing automatic recording settings

#### **Enabling automatic stopping**





Auto Rec

Off

**3.** Set the stop level in the same manner as the start

level. ( $\rightarrow$  P.84)

the stop time,

and press → 🗐 ‡.

When the input level goes below the set level, recording will stop automatically after the amount of time set in step 2 above.

# Setting how projects are named

You can change the type of name that is automatically given to a project.

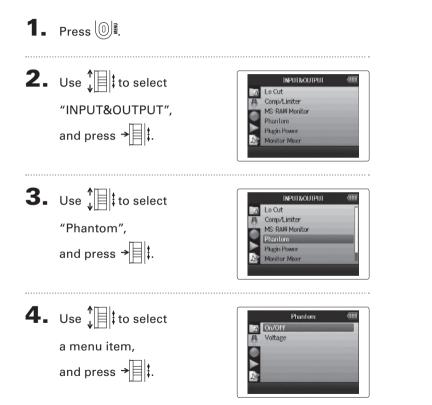
**1.** Press 0 **2.** Use to select **Rec Format** Auto Rec "REC", and Pre Rec Backup Rec press → Project Name **3.** Use to select REC Rec Format Auto Rec "Project Name", Pre Rec Backup Rec and press → Project Name Default **4.** Use to select Pro ject Name 🗸 Default Date the type, and press → MENU : Retur

#### NOTE

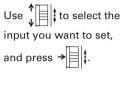
- Project names are created in the following formats.
  - Default: ZOOM0001–ZOOM9999
  - Date: YYMMDD-HHMMSS (Example: 130331-123016)
- The "Date" format uses the recording starting time.

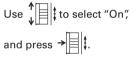
# Changing the phantom power setting

Inputs1–4 can provide phantom power of +12V, +24V or +48V.

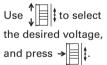


■ Select "ON/OFF"





Select "Voltage"





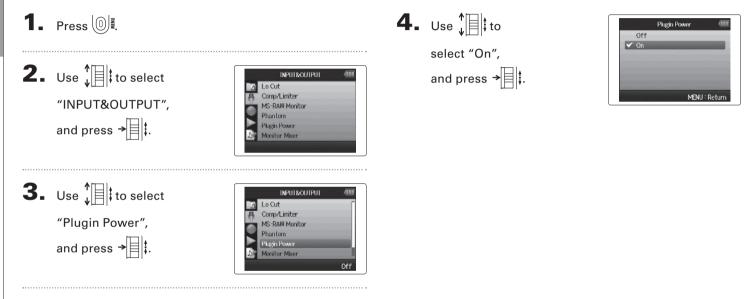




ttinge

# Using plug-in power

When using a mic that uses plug-in power, make the following setting before connecting it to the **MIC/LINE** input jack of the **XY mic**.

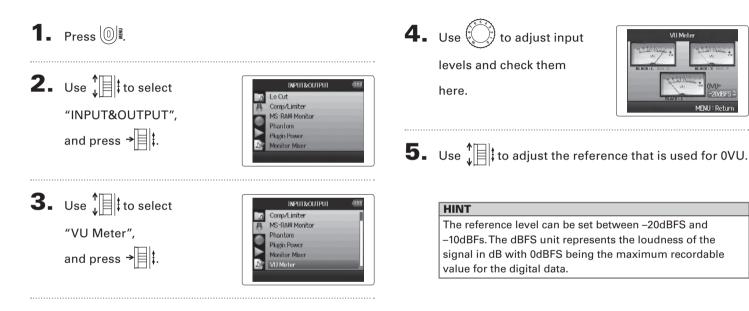


Using plug-in power

Using VU meters to check input levels

# Using VU meters to check input levels

The virtual VU meters can be used to check input levels.



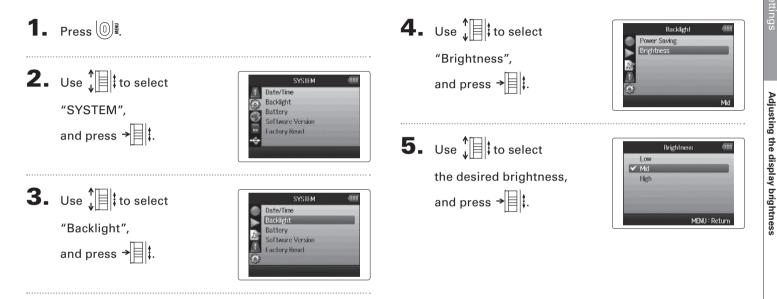
89

# Setting the display to save power

You can set the display backlight to dim or turn off when no operation is conducted for 30 seconds in order to save power.



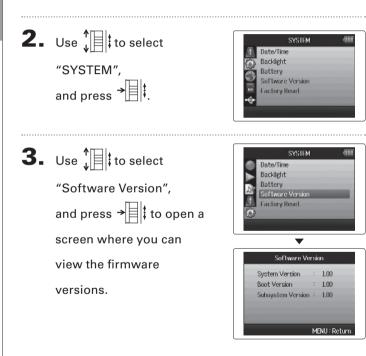
# Adjusting the display brightness



# Checking the firmware versions

You can check the software versions used by the  $\mathbf{H6}$  .

**1.** Press 0 .



Factory Reset Reset all settings.

Are you sure?

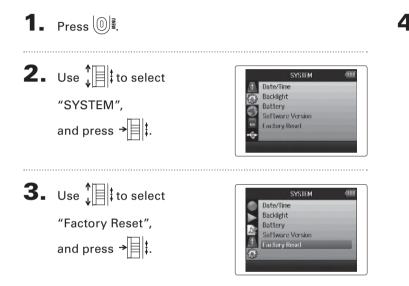
No

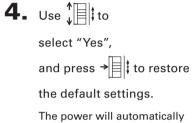
MENU : Return

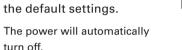
Yes

# **Restoring the default settings**

You can restore the unit to its factory default settings.







#### NOTE

Input level settings are not reset.

# Uther functions

# Checking SD card open space

94

# **1.** Press 0 5.

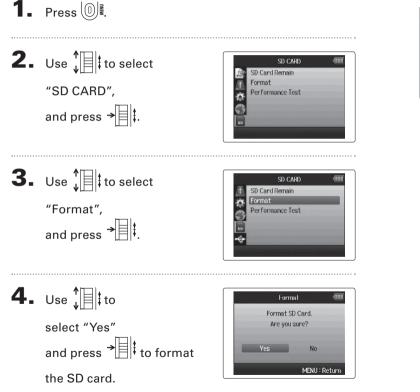
**2.** Use to select SD CARD SD Card Remain Format "SD CARD", Performance Test đ and press → **3.** Use to select SD CARD SD Card Remain Format "SD Card Remain", Performance Test â and press  $\rightarrow$ amount of remaining open T SD Card Remain space on the card. 50% 100%

1.76GB / 1.83GB

MENU : Return

# **Formatting SD cards**

SD cards must be formatted by the **HG** for use with it.



#### NOTE

- If you use an SD card that has been formatted by a computer or that you have purchased, you must format it using the **H6** before it can be used with the unit.
- Be aware that all data previously saved on the SD card will be deleted when it is formatted.

# **Testing SD card performance**

You can test SD cards to confirm that they can be used with the **H6**.

**1.** Press 0 **5.** When the test completes, Performance Test Result : OK **ny** the result will be shown. **2.** Use to select Access Rate If the MAX access rate is SD CARD Average: 20% SD Card Remain Testing SD card performance 100%, the result will be Format "SD CARD". Performance Test "NG" (no good). đ and press → **6.** To cancel testing, Performance Test Result : NG **3.** Use to select press 🛛 🔹 SD CARD SD Card Remain Access Rate Format 0 "Performance Test". Average : 20% Max : 40% Performance Test and press → NOTE Even if an SD card is evaluated as "OK" by the performance test, this does not guarantee that write errors will never **4.** Press • to start the occur. Please use this test just as a guide. Performance Test Now Measuring ... 50% 100% performance test. Test progress Access Rate Card access rate Average: 20% Max: 40% ec : Abort MENU : Return

50%

50%

100%

100%

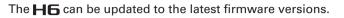
MENU : Return

Max: 40%

MENU : Return

# H6 Handy Recorder

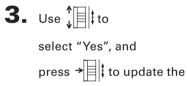
# Updating the firmware



- Inctions
- Copy the version update file to the root directory of the SD card.

**2.** Insert the SD card into the **H6**.

Then, turn the power on while pressing 🕞



firmware.



**4.** After the firmware update completes, turn the power off.

	100	-> 11	n	
		npleti		
	-	10		22
Ple	ase p	owe	r of	f.

#### NOTE

Updating the firmware is not possible when the remaining battery power is too low.

If this is the case, install new batteries or use an AC adapter (sold separately).

# Using SD cards from older H series recorders

An SD card that has been used in an older ZOOM H series recorder can be read and used by the **H6**. The files will be moved on the card so that the **H6** can use them.

**1.** Insert the SD card, and then turn the power on.



#### NOTE

- If a file with the same name already exists in a destination location, movement will not be possible until the file name is changed.
- After files are moved, they will not be recognized by older H series recorders.

# Using a remote control (sold separately)

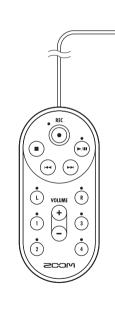
By using a remote control (sold separately), you can operate the **HG** from a distance.

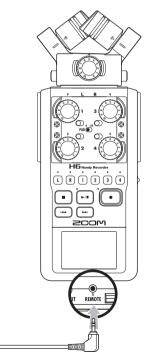
Connect the remote control to the **H6** REMOTE jack.

The buttons on the remote control correspond to the buttons on the **H6** main unit.

#### HINT

The remote control buttons function even when the  $\ensuremath{\textbf{H6}}$  hold function is active.





# Troubleshooting

If you think that the **H6** is not operating properly, please check the following first.

#### **Recording/playback trouble**

- There is no sound or output is very quiet
- Check the connections to your monitoring system and its volume setting.
- $\bullet$  Confirm that the volume of the  $\ensuremath{\textbf{H6}}$  is not too low.

#### • The recorded sound cannot be heard or is very quiet

- If you are using the included XY or MS mic, confirm that it is oriented correctly.
- $\bullet$  Check the input level settings. (  ${\rightarrow}$  P.24)
- If a CD player or other device is connected to an input jack, raise the output level of that device.

#### • Recording is not possible

- Confirm that the SD card has open space. ( $\rightarrow$  P.94)
- If "Hold is On" appears on the display, the hold function is enabled. Disable the hold function. ( $\rightarrow$  P.20).

#### Other trouble

#### The H6 is not recognized by a computer when connected by USB

- $\bullet$  Check that the OS of the computer is compatible. (  $\rightarrow$  P.66).
- A USB operation mode must be selected on the **H6** to allow a computer to recognize it. (→ P.66).

# Specifications

Recordin	a media	16MB-2GB SD cards, 4GB-32GB SDHC car	ds 64GB-128GB SDXC cards
		XY mic (XYH-6)	
		. ,	Directional
			-41 dB, 1 kHz at 1 Pa
			-∞ to 46.5 dB
		Maximum sound pressure input	
			130 db 31 L
		MIC/LINE IN stereo mini jack	Input gain: -∞ to 46.5 dB
			Input impedance: 2 kΩ
	L/R inputs		Plug-in power: 2.5V supported
		MS mic (MSH-6)	
		Mic types	Directional and bidirectional
Inputs		Sensitivity	-37 dB, 1 kHz at 1 Pa (directional), -39 dB, 1 kHz at 1 Pa (bidirectional)
<b>P</b>		Input gain	-∞ to 42.5 dB
			120 dB SPL (directional), 122 dB SPL (bidirectional)
		Backup input	Set input gain –12 dB
			XLR/TRS combo jacks (XLR: 2 hot, TRS: TIP hot)
		Input gain (PAD OFF)	-∞ to 55.5 dB
		Input gain (PAD ON)	-∞ to 35.5 dB
		Input impedance	1.8kΩ or more
	INPUTS 1 – 4	Maximum allowable input level	+22 dBu (PAD ON)
			+12/+24/+48V (can be turned ON/OFF independently for INPUTS 1-4)
		Equivalent input noise (EIN)	-120 dBu or less
	Output jack	LINE OUT stereo mini jack (rated output lev	/el –10 dBu when output load impedance is 10 kΩ or more)
Outputs		PHONE OUT stereo mini jack (20 W + 20 W	into 32Ω load)
	Built-in speaker	400 mW/8 Ω mono speaker	
		WAV setting	
		Supported formats	44.1/48/96kHz, 16/24-bit, mono/stereo, BWF format
Recording formats		Maximum simultaneous recording tracks	8 tracks (6 tracks + backup stereo recording)
		MP3 setting	
		Supported formats	
		Maximum simultaneous recording tracks	2 tracks
		With 2GB card	
Recordin	g time	3:08:00 (44.1kHz/16-bit WAV)	
		34:43:00 (128kbps MP3)	
Display		2" full-color LCD (320 x 240)	

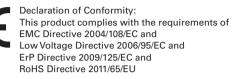
	Mass storage class operation			
USB	Class: USB 2.0 High Speed			
	Audio interface operation: multi track mode (Note: Use with Windows requires a driver, but Macintosh does not)			
	Class: USB 2.0 High Speed			
	Specifications: 6 in/2 out, 44.1/48kHz/96kHz sampling rate, 16/24-bit bit rate			
	Audio interface operation: stereo mode			
	Class: USB 2.0 Full Speed			
	Specifications: 2 in/2 out, 44.1/48kHz sampling rate, 16-bit bit rate			
	Note: Use as an iPad audio interface supported (stereo mode only)			
	Note: USB bus power operation possible			
	Note: Obb bus power operation possible			
	Recording mode			
	XY mic, 44.1kHz/16-bit (stereo x 1) 21h00m			
Approximate continuous				
recording times when	XY mic and Inputs 1, 2, 3 and 4 used, 96kHz/24-bit (stereo x 3) 9h45m			
using battery power				
(in hours and minutes)	Note: The above times are estimates.			
	Note: Approximate continuous recording times when using battery power were calculated using our own testing method. They may			
	differ greatly depending on operating conditions.			
	Operating using 4 AA batteries			
Power	AC adapter: DC5V 1A AD-17 (sold separately)			
	USB bus power			
	Main unit: 77.8 mm (W) x 152.8 mm (D) x 47.8 mm (H), 280 g			
Dimensions	XYH-6: 78.9 mm (W) x 60.2 mm (D) x 45.2 mm (H), 130 g			
	MSH-6: 58.0 mm (W) x 67.6 mm (D) x 42.1 mm (H) 85 g			
	Operation manual SD card			
Included accessories	4 AA batteries			
	Cubase LE DVD-ROM			
	Main unit case			
	Wind screen (sponge)			
	USB cable			
	XYH-6			
	MSH-6			

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

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 to 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**



#### **Disposal of Old Electrical & Electronic Equipment**



(Applicable in European countries with separate collection systems) This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



#### **ZOOM CORPORATION**

4-4-3 Surugadai, Kanda, Chiyoda-ku, Tokyo 101-0062 Japan http://www.zoom.co.jp

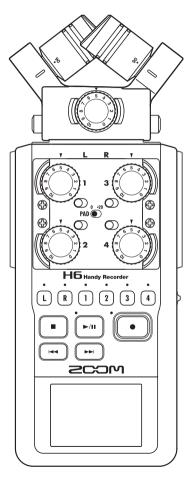


# H6 Handy Recorder

Version 2.0 Supplementary Manual

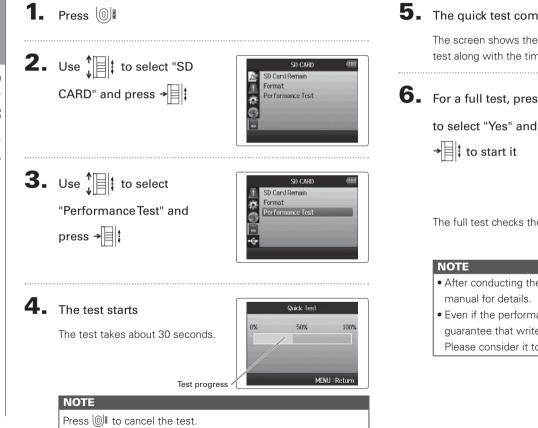
#### © 2014 ZOOM CORPORATION

Reproduction of this manual in whole or in part by any means without permission is prohibited.



# Testing SD card performance

You can test an SD card to confirm that it can be used with the HIG.

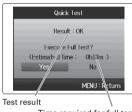


# **5.** The quick test completes

The screen shows the test results and an option to conduct a full test along with the time required for it.

**6.** For a full test, press

to select "Yes" and press



Time required for full test

The full test checks the entire writable area of the card

- After conducting the full test, see P96 of the H6 operation
- Even if the performance test result is "OK", this does not guarantee that write errors will not occur.

Please consider it to be just a performance estimate.

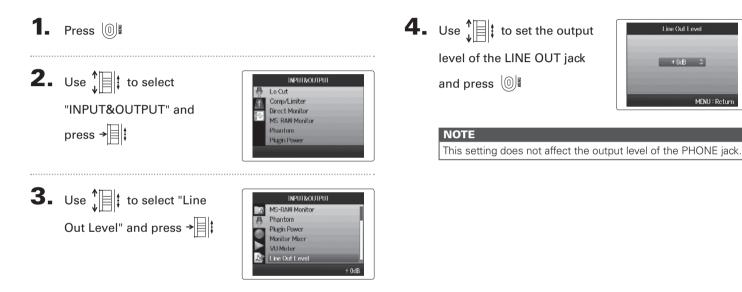
Line Out Level

+ 0/B

MENU : Return

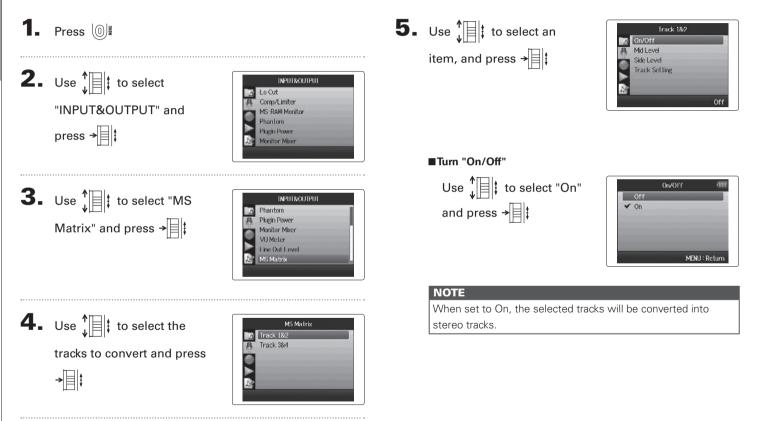
# Lowering the line output level

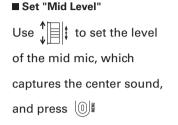
You can lower the output level of the LINE OUT jack. Use this when the output signal of the LINE OUT jack is input to the external mic input jack of an SLR camera or another connector with high input gain.



# Converting MS format input signals to ordinary stereo

Signals from an MS format stereo mic input through Inputs 1/2 or Inputs 3/4 can be converted to an ordinary stereo signal.



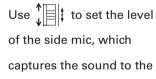




#### HINT

Mid Level can be set to mute and in a range from -48.0 to +12.0 dB.

#### Set "Side Level"



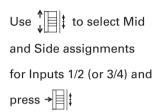
left and right, and press 0



#### HINT

Side Level can be set to mute and in a range from -48.0 to +12.0 dB.

#### Selecting the "Track Setting"





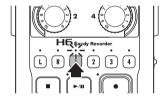
# Monitoring the input signals of specified tracks (SOLO mode)

You can monitor the input signals of specified tracks using SOLO mode.

Press and hold the buttons of the tracks that you want

to monitor

The indicators for the selected track keys will light orange.



The input signals of the selected tracks will be output from the PHONE and LINE OUT jacks.

#### NOTE

- SOLO mode can only be used with tracks that have input signals (indicators lit red).
- To monitor L/R tracks (mic input), press and hold either the L or the R button.
- Even when monitoring in SOLO mode, the inputs of tracks that have names shown in red on the display are being recorded.

#### HINT

- When monitoring, press and hold another track button to add that track to the signals monitored.
- Even when monitoring in SOLO mode, the automatic recording function will operate in response to the input levels of all tracks.

# **2.** Press the button of a track being monitored to end

#### SOLO mode

The indicators for all tracks being input will light red, and the input signals of other tracks will also be output.

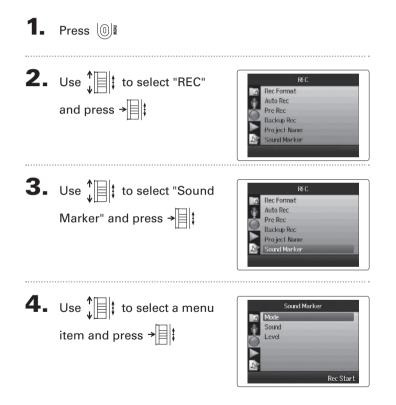
#### HINT

You can also exit SOLO mode by pressing () it open the settings screen and then returning to the Home Screen.

# Outputting tone signals when starting and stopping recording (sound marker function)

When starting and stopping recording, the HG can output tone signals (sound markers).

When recording audio for video with the **H6**, by inputting tone signals into the camera recording, aligning the audio with the video will be easier.



#### Setting the "Mode"

Use  $\oint_{\downarrow}$  to select the conditions for outputting sound markers and press



#### NOTE

press →

→目‡

Markers will not be output when the overdubbing or voice memo functions is in use.

#### Setting the "Sound"

Use  $\downarrow$  to select the type of sound marker and





ver.2.0

■ Setting the "Level" Use ↓ ↓ to set the sound

marker level and press



#### **ZOOM CORPORATION**

4-4-3 Kanda-Surugadai, Chiyoda-ku, Tokyo 101-0062 Japan

http://www.zoom.co.jp