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.

⚠️ Warning
Something that could cause serious injury or death

⚠️ Caution
Something that could cause injury or damage to the equipment

Other symbols used

⚠️ An action that is mandatory

🚫 An action that is prohibited

⚠️ 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
⚠️ Do not use in extremely high or low temperatures.
⚠️ Do not use near heaters, stoves and other heat sources.
⚠️ Do not use in very high humidity or where it could be splashed by water.
⚠️ Do not use in places with frequent vibrations.
⚠️ 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 turn the power OFF for all equipment before connecting any cables.
⚠️ Always disconnect all connection cables and the AC adapter before moving the unit.

Volume
⚠️ 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.

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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 H6 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 H6 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.
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**Included items**

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

- 4 AA batteries (for unit testing)
- Main unit case
- SD card
- USB cable
- XY mic
- MS mic
- Cubase LE installation DVD
- Operation manual (this document)
- Wind screen (sponge)
Names of parts

Left

- Input 1
- Input volume L/R
- Input volume 1
- Input 2
- SD card slot
- VOLUME button
- POWER/HOLD switch
- PHONE jack

Front

- XY mic
- MS mic
- Input volume L/R
- Input volume 1
- Input volume 2
- Input volume 3
- Input volume 4
- PAD switches (1–4)
- Track buttons and indicators (L, R, 1–4)
- Display
- Play/pause button & indicator
- Record button & indicator
- Stop button
- Back button
- Forward button
Names of parts

**Right (back)**

- **Scroll button**
  - Up and down
  - Select menu items
  - Press: Confirm menu selection

- **MENU button**
  - Press: Open menu, Return to last screen

- **Input 3**
  - MIC/LINE input jack (supports plug-in power)

- **Input 4**

- **Speaker (back)**

- **Battery cover (back)**

**Bottom**

- **LINE OUT jack**
  - Remote control sold separately

- **REMOTE jack**

- **Strap holes**
  - (can also be used with camera straps)

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

- **TRS**
  - TIP: HOT
  - RING: COLD
  - SLEEVE: GND
Mic overview

The H6 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. (→ 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. (→ 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 with side mic off: interviews, narrations, meetings
**Connecting and disconnecting mics**

**Mic connection**

1. 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 H6 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. (→ 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. (→ 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**
- L/R input mic: Main subject
- Shotgun/lapel mics connected to **Inputs 1/2**: Performer
- Mics connected to **Inputs 3/4**: Ambient sound

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

AC adapter (AD-17)
This AC adapter is designed for use with the H6. Connect it to the USB jack using a USB cable and plug it into an outlet.
Display overview

Home/Recording Screen

- Status icon: Stopped, Recording, Paused
- SD card icon and remaining recording time
- Phantom power voltage (→ P.87)
- L/R track (Name of connected mic unit shown)
- Low cut indicator (→ P.78)
- Compressor/limiter indicator (→ P.79)
- Phantom power indicator (→ P.87)
- Folder name
- Recording time
- Name of project that will play when the button is pressed (when recording, name of project being recorded)
- Battery charge indicator
- Pan sliders (Monitoring mixer → P.80)
- Level meter (Recording input level)
- Tracks 1–4
- Recording format (When using as an audio interface, computer or iPad setting shown)
- Auto record (→ P.29)
- SD card icon and remaining recording time
- Phantom power voltage (→ P.87)
Playback Screen

Status icon
- Playing back
- Paused

Playback time

Battery charge indicator

Folder name

Pan sliders

Playback volume

Pitch control

L/R track
(Name of connected mic unit shown)

Playback format

Playback speed
(→ P.41)

A-B repeat (→ P.42)
(Shown when A and B points set)
Supplying power

Using batteries

1. Turn the power off and then remove the battery cover.

   ![Battery Cover](image)

   - Open while pushing up

2. Install the batteries.

3. Replace the battery cover.

   ![Battery](image)

   - NOTE
     - Use alkaline batteries or nickel-metal 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)
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

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” (→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 (→ P.21) and date/time (→ 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 HOLD (©) to the right.

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

Activating the hold function

- Slide HOLD to the left.

Deactivating the hold function

- Slide HOLD 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 \[ \text{ } \].

2. Use \[ \text{ } \] to select “LANGUAGE”, and press \[ \text{ } \].

3. Use \[ \text{ } \] to select the language, and press \[ \text{ } \].

*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.

1. Press \( \text{[Set]} \).

2. Use \( \text{[Up/Down]} \) to select “SYSTEM”, and press \( \text{[Enter]} \).

3. Use \( \text{[Up/Down]} \) to select “Date/Time”, and press \( \text{[Enter]} \).

4. Set the date and time.

■ Changing settings

Move cursor: \( \text{[Up/Down]} \), up/down

Select item: \( \text{[Enter]} \), then move \( \text{[Up/Down]} \), up/down

Confirm change: \( \text{[Enter]} \)

5. Press \( \text{[Set]} \) to complete the setting.

*The first time you turn the power on after purchase, you must set the language and date/time.
Setting the type of battery used

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

1. Press the power button.

2. Use the navigation buttons to select “SYSTEM”, and press the selection button.

3. Use the navigation buttons to select “Battery”, and press the selection button.

4. Use the navigation buttons to select the type of battery, and press the selection button.

Set the type of battery used so that the amount of remaining battery charge can be shown accurately.
The recording process includes the following steps. With the H6, a unit of recording/playback data is called a project.

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

2. **Select recording tracks (→ 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) (→ P.33) and show the VU meters (→ P.89), for example.
Folder and file structure

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

- **Root**

  - **FOLDER01 - FOLDER10**
    - A folder named ZOOM0001 – ZOOM9999 is created for each project.

  - **ZOOM0001**
    - Stereo file of recorded L/R input signals (ZOOM0002_LR.WAV)
    - Mono file of recorded Input 1 signal (ZOOM0002_Tr1.WAV)
    - L/R input backup recording file (ZOOM0002_BU.WAV)
    - Project settings file (ZOOM0002.hprj)

  - **ZOOM0002**
    - Stereo file of recorded Input 3/4 signals (ZOOM0002_Tr34.WAV)
    - Mono file of recorded Input 1 signal (ZOOM0002_Tr1.WAV)
    - Project settings file (ZOOM0002.hprj)

  - **ZOOM0003**
    - First file when recording exceeded 2GB (ZOOM0003_LR-0001.WAV)
    - Second file when recording exceeded 2GB (ZOOM0003_LR-0002.WAV)
    - Stereo file of recorded Input 3/4 signals (ZOOM0003_LR.WAV)
    - L/R input backup recording file (ZOOM0002_BU.WAV)
    - Mono file of recorded Input 1 signal (ZOOM0002_Tr1.WAV)
    - Project settings file (ZOOM0002.hprj)

  - **ZOOM0004**
    - First stereo file recorded on the L/R tracks (ZOOM0004_LR.WAV)
    - Additional stereo file recorded on the 1/2 tracks (ZOOM0004_Tr12_01.WAV)
    - Stereo file created by mixing down (ZOOM0004_ST001.WAV)
    - The settings file has the same name as the project name (JazzLive.hprj)

  - **ZOOM0005**
    - Recorded stereo MP3 file (ZOOM0005.MP3)
    - Additional stereo file recorded on the 1/2 tracks (ZOOM0004_Tr12_01.WAV)
    - Stereo file created by mixing down (ZOOM0004_ST001.WAV)
    - Project file when project name is set to “Date” (130410-163015.hprj)
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.

<table>
<thead>
<tr>
<th>Tracks recorded</th>
<th>File name</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>L/R track</td>
<td>ZOOMnnnn-LR</td>
<td>Stereo file</td>
</tr>
<tr>
<td>Mono track</td>
<td>ZOOMnnnn_Tr1</td>
<td>Mono file</td>
</tr>
<tr>
<td></td>
<td>(for track 1)</td>
<td></td>
</tr>
<tr>
<td>Stereo track</td>
<td>ZOOMnnnn_Tr34</td>
<td>Stereo file</td>
</tr>
<tr>
<td></td>
<td>(for tracks 3/4)</td>
<td></td>
</tr>
</tbody>
</table>

Note: “nnnn” in the file name is the project number
- All the files that are created during the same recording are managed by the **H6** as a single project unit.
2. Turn \( \mathbb{O} \) for the selected input to adjust the input level.

**HINT**
- Adjust so that the peak level stays around \(-12\)dB.
- You can change the recording format. (→ P.83)
- You can cut noise from wind and other sources during recording. (→ P.78)

3. Press \( \mathbb{A} \) to start recording.

4. Press \( \mathbb{H} \) to add a mark.

5. Press \( \mathbb{L} \) to pause.

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

6. Press \( \mathbb{F} \) 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.

1. Press 🎼.

2. Use ⬆️⬇️ to select “PROJECT LIST”, and press ➔⬇️.

3. Use ⬆️⬇️ to select the folder where you want to save new projects, and press ➔⬇️.

4. Press 🎵 to confirm the folder selection and return to the Home Screen.
Recording automatically

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

1. Press Rec.

2. Use \( \uparrow \downarrow \) to select “REC”, and press \( \rightarrow \uparrow \downarrow \).

3. Use \( \uparrow \downarrow \) to select “Auto Rec”, and press \( \rightarrow \uparrow \downarrow \).

4. Use \( \uparrow \downarrow \) to select “On/Off”, and press \( \rightarrow \uparrow \downarrow \).

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

5. Use † † to select “On”, 
and press  ➤ .

NOTE
For details, see “Changing automatic recording function 
settings” (→ P.84)

6. Return to the Home 
Screen, and press  ● 
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. (→ 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 record button. This is useful when, for example, a performance starts suddenly.

1. Press the record button.

2. Use the arrow buttons to select “REC”, and press the select button.

3. Use the arrow buttons to select “Pre Rec”, and press the select button.

4. Use the arrow buttons to select “On”, and press the select button.

**NOTE**
The Auto Rec and Pre Count functions cannot be used at the same time as this function.
Counting in before recording

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

1. Press 0.

2. Use  to select “TOOL”, and press .

3. Use  to select “Metronome”, and press .

4. Use  to select “Pre Count”, and press .

5. Use  to select the count number, and press .

NOTE

The Auto Rec and Pre Rec functions cannot be used at the same time as this function.
Adjusting the side mic level  MS mic only

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

Move up and down to adjust.

- **Side Mic Level**: RAW
- **Side Mic Level**: +6
- **Side Mic Level**: 0
- **Side Mic Level**: -12
- **Side Mic Level**: Off

**NOTE**
- Set to Off, -24 to +6 dB, or RAW.
- When recording in RAW mode, during playback move up and down to adjust the side mic level.
- RAW mode can be selected only when the WAV format is used for recording.
Backup recording  L/R input and WAV format only

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.

1. Press 0.

2. Use  to select “REC”, and press 1.


HINT
- If the name of the original file is, for example, “ZOOM0001_LR.wav”, the name of the backup file will be “ZOOM0001_BU.wav”.
- You can play backup files. (→P.64)
Overdubbing  WAV format only

You can add recordings to an already recorded project.

1. Press $\text{\textit{REC}}$.

2. Use $\uparrow\downarrow$ to select “PROJECT MENU”, and press $\rightarrow\downarrow$.

3. Use $\uparrow\downarrow$ to select “Overdub”, and press $\rightarrow\downarrow$.

4. Press the track button until the indicator lights red for the track to be overdubbed.

5. Turn $\bigcirc$ to adjust the input level.

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

6. To monitor already recorded tracks, press their track buttons so their indicators light green.

NEXT >>>
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 ⏹ 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.”
Basic playback

1. Press ► to start playback.

 Controls during playback
Select project/move to mark: Use ◄ and ►
Search forward/backward: Press and hold ◄/►
Pause/resume playback: Press ►►
Adjust volume: Press VOLUME (+/–)
Add marks: Press ➞
Change side mic level: (RAW mode only) Move up and down

HINT
- The longer you press and hold ◄ or ►, the faster searching backward/forward becomes.
- During playback you can press track buttons to unmute (lit green) and mute (unlit) tracks.
2. Press ▼ or ▼ to return to the Home Screen.
Select the playback project from the list

1. Press 0.

2. Use  to select “PROJECT LIST”, and press →.  

3. Use  to select the folder, and press →.

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. (→ P.44)
Changing the playback speed

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

1. Press \( \text{[SEL]} \).

2. Use \( \uparrow \downarrow \) to select “PROJECT MENU”, and press \( \text{[SEL]} \).

3. Use \( \uparrow \downarrow \) to select “Playback Speed”, and press \( \text{[SEL]} \).

4. Use \( \uparrow \downarrow \) to adjust the playback speed, and press \( \text{[SEL]} \).

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.

1. Press \[ \text{Play} \].

2. Use \[ \text{Up/Down} \] to select “PLAY”, and press \[ \text{Right} \].

3. Use \[ \text{Up/Down} \] to select “AB Repeat”, and press \[ \text{Right} \].

4. Use \[ \text{Up/Down} \] to select the A point icon, and press \[ \text{Right} \].

5. Use \[ \text{Left/Right} \] to find the starting point for repeat playback. You can also press \[ \text{Search} \] to search while playing back.

6. Use \[ \text{Up/Down} \] to select the B point icon. Then, set the repeat playback ending point.
7. Press \(\text{播放} \text{按钮}\) 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 \(\text{播放} \text{按钮}\).
- During repeat playback, AB repeat will end if you press \(\text{播放} \text{按钮}\) or \(\text{播放} \text{按钮}\) to select a different project.
Changing the playback mode

You can set the playback mode.

1. Press 1.

2. Use  to select “PLAY”, and press .

3. Use  to select “Play mode”, and press .

4. Use  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)

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

1. Press 0.

2. Use ▲▼ to select “PROJECT MENU”, and press →▲▼.

3. Use ▲▼ to select “Project Mixer”, and press →▲▼.

4. Use ▲▼ to select the track for which you want to change the pitch (key), and press →▲▼.

5. Use ▲▼ to set the playback pitch (key), and press →▲▼.

NOTE
This can be set between ♭6 and #6.

Playback will occur with the changed pitch.

HINT
This pitch setting is saved separately for each project.
You can use the Project Mixer to adjust the balance of the playback tracks.

1. Press .

2. Use  to select “PROJECT MENU”, and press .

3. Use  to select “Project Mixer”, and press .

4. Change parameters as desired.

- **Mixing controls**
  
  Move cursor/change value: Move  up/down
  
  Select parameter to change: Press  

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Setting range</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume</td>
<td>Mute, 48.0 – +12dB (in 0.5dB increments)</td>
<td>Adjusts track volume</td>
</tr>
<tr>
<td>Panning</td>
<td>L100 – CENTER – R100</td>
<td>Adjusts left–right position of sound.</td>
</tr>
<tr>
<td>Pitch (key)</td>
<td>b6 – #6</td>
<td>Adjusts playback pitch without changing playback speed.</td>
</tr>
</tbody>
</table>
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.
- Use the Monitor Mixer to adjust the balance when monitoring inputs. (→P.80)
Checking project information

You can check information about the selected project.

1. Press 0.

2. Use \[\text{Up/Down} \] to select "PROJECT MENU", and press \[\text{Right} \].

3. Use \[\text{Up/Down} \] to select "Information", and press \[\text{Right} \] to view information about the project.

Use \[\text{Up/Down} \] to scroll down to see information hidden below the bottom of the screen.
Checking track marks

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

1. Press \( \text{[on]} \).

2. Use \( \text{[up/dn]} \) to select “PROJECT MENU”, and press \( \text{[mark]} \).

3. Use \( \text{[up/dn]} \) to select “Mark List”, and press \( \text{[mark]} \) to open the mark list.

Mark user added
Mark added when a gap occurred in the sound during recording
Changing project names

1. Press  

2. Use \( \uparrow \downarrow \) to select "PROJECT MENU", and press \( \rightarrow \downarrow \) .

3. Use \( \uparrow \downarrow \) to select "Edit", and press \( \rightarrow \downarrow \) .

4. Use \( \uparrow \downarrow \) to select "Rename", and press \( \rightarrow \downarrow \) .

5. Change the name.

6. Press  to complete the setting.


- Controls when changing names
  - Move cursor/change character: Move \( \uparrow \downarrow \) up/down
  - Select character/confirm change: Press \( \rightarrow \downarrow \) 

NOTE
- The following characters can be used in project names.
  - (space) !#$% &'()+,-0123456789;=@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\^_`abcdefghijklmnopqrstuvwxyz{~
- A project name cannot be only spaces.
Checking/editing projects/files

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).

1. Press \( \text{[Mixdown]} \).

2. Use \( \uparrow \downarrow \) to select “PROJECT MENU”, and press \( \rightarrow \uparrow \downarrow \).

3. Use \( \uparrow \downarrow \) to select “Mixdown”, and press \( \rightarrow \uparrow \downarrow \).

4. When mixing down a project you can change the formats by using \( \uparrow \downarrow \) to select “Select Format”, and press \( \rightarrow \uparrow \downarrow \).

5. Use \( \uparrow \downarrow \) to select the format, and press \( \rightarrow \uparrow \downarrow \).

NOTE
You can only select WAV formats that have the same sampling frequency and bit rate as the selected project.
6. Use \[ \text{ } \] to select “Execute”, and press \[ \text{ } \] 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

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

1. Press \[ \text{[]}. \]

2. Use \[ \text{[} \] \] to select “PROJECT MENU”, and press \[ \text{[} \] \].

3. Use \[ \text{[} \] \] to select “Edit”, and press \[ \text{[} \] \].

4. Use \[ \text{[} \] \] to select “Normalize”, and press \[ \text{[} \] \].

5. Use \[ \text{[} \] \] to select the track that you want to normalize.

NOTE

- You cannot select a track that has no recorded file.
- If you select “All”, all tracks that have files will be normalized.
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.

1. Press \[ \text{select} \].

2. Use \[ \text{select} \] to select “PROJECT MENU”, and press \[ \text{select} \].

3. Use \[ \text{select} \] to select “Edit”, and press \[ \text{select} \].

4. Use \[ \text{select} \] to select “Divide”, and press \[ \text{select} \].

5. Set the division point.

- Controls when dividing
  
  Move point: Use \[ \text{select} \] and \[ \text{select} \]
  
  PLAY/pause: Press \[ \text{select} \]
  
  Confirm point: Press \[ \text{select} \]
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

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.

1. Press \[ \text{ } \].

2. Use \[ \text{ } \] to select “PROJECT MENU”, and press \[ \text{ } \].

3. Use \[ \text{ } \] to select “Edit”, and press \[ \text{ } \].

4. Use \[ \text{ } \] to select “Trim”, and press \[ \text{ } \].

5. Use \[ \text{ } \] to select the starting point icon.

6. Use \[ \text{ } \] and \[ \text{ } \] to find the starting point.

You can also press \[ \text{ } \] to search while playing back.

7. Use \[ \text{ } \] to select the ending point icon. Then, set the ending point in the same manner.
8. Press \( \text{start} \).

9. Use \( \text{up} \) to select “Yes”, and press \( \text{play} \) to trim the project.

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

You can delete unneeded projects.

1. Press \( \text{[Delete]} \).

2. Use \( \text{[Up/Down/Left/Right]} \) to select “PROJECT MENU”, and press \( \text{[Enter]} \).

3. Use \( \text{[Up/Down/Left/Right]} \) to select “Trash”, and press \( \text{[Enter]} \).

4. Use \( \text{[Up/Down/Left/Right]} \) to select “Delete”, and press \( \text{[Enter]} \).

5. Use \( \text{[Up/Down/Left/Right]} \) to select “Yes”, and press \( \text{[Enter]} \).

NOTE
Deleting projects cannot be undone.
Deleting all projects in a folder

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

1. Press [MENU].

2. Use \[ \downarrow \uparrow \] to select "PROJECT MENU", and press \[ \rightarrow \uparrow \].

3. Use \[ \downarrow \uparrow \] to select "Trash", and press \[ \rightarrow \uparrow \].

4. Use \[ \downarrow \uparrow \] to select "Delete All Projects", and press \[ \rightarrow \uparrow \].

5. Use \[ \downarrow \uparrow \] to select "Yes", and press \[ \rightarrow \uparrow \].

NOTE
Deleting projects cannot be undone.
Rebuilding a project

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

1. Press 0.

2. Use ↑↓ to select “PROJECT MENU”, and press →↓.

3. Use ↑↓ to select “Rebuild”, and press →↓.

4. Use ↑↓ to select “Yes”, and press →↓ to rebuild the project.

HINT

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.

1. Press [Rec].

2. Use \(\uparrow\downarrow\) to select “PROJECT MENU”, and press \(\rightarrow\uparrow\downarrow\).

3. Use \(\uparrow\downarrow\) to select “Voice Memo”, and press \(\rightarrow\uparrow\downarrow\).

4. Record the memo.
   - Start recording: Press \(\bullet\)
   - Stop recording: Press \(\bullet\)

5. Play the memo.
   - Start playback: Press \(\bullet\)
   - Stop playback: Press \(\bullet\)

HINT

- Each time you press \(\bullet\), the voice memo is overwritten.
- Voice memos are recorded using the stereo mic connected to the L/R input. It cannot be recorded using Inputs 1–4.
- The file name of the voice memo will be in the format of “ZOOM0001_VM”.
- The voice memo file format is 128kbps MP3.
Playing backup files  WAV format only

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

1. Press [ ].

2. Use [ ] to select “PROJECT MENU”, and press [ ].

3. Use [ ] to select “Backup File”, and press [ ].

4. Use [ ] to select “On”, and press [ ].

In this state, when you press [ ], the backup file will play back instead of the normal file for track L/R.
### Data exchange with computers (card reader)

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

1. Press $\text{USB}$.

2. Use $\uparrow\downarrow$ to select “USB”, and press $\rightarrow$.

3. Use $\uparrow\downarrow$ to select “SD Card Reader”, and press $\rightarrow$.

4. Connect the H6 to the computer using a USB cable.

#### NOTE
- If you want to power the unit using the computer’s USB bus, connect the cable while the H6 power is off, and then turn it on.
- The following operating systems are supported.
  - Windows XP or later
  - Mac OS X 10.6 or later
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 $\text{H6}$.
**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

2. Use 
   - to select “USB”, and press

3. Use 
   - to select “Audio Interface”, and press

4. Use 
   - to select “Stereo Mix” or “Multi track”, and press

5. Use 
   - to select “PC/Mac”, “PC/MAC using battery power” or “iPad using battery power”, 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 Multi Track mode.
- When using Stereo Mix mode you can use the recorder’s mixer to mix all track inputs to stereo. (→ P72)
- 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).

**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.
6. Connect the **H6** to the computer or iPad using a USB cable.

7. Press \( \text{[connect]} \) to disconnect.

8. Use \( \text{[up/down]} \) to select “EXIT”, and press \( \text{[select]} \).

9. Use \( \text{[up/down]} \) to select “Yes”, and press \( \text{[select]} \).

10. Disconnect the cable from the computer or iPad and the **H6**, and then press \( \text{[connect]} \).
Audio interface settings

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

### 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.

1. Press 

2. Use ```
   ``` to select
   “INPUT&OUTPUT”,
   and press ```

3. Use ```
   ``` to select
   “Direct Monitor”,
   and press ```

4. Use ```
   ``` to select
   “On”, and
   press ```
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 H6 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.

1. Press [USB].

2. Use [SET] to select “INPUT&OUTPUT”, and press [SET].


**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 \( \text{[Input]} \).

2. Use \( \uparrow \downarrow \) to select “INPUT&OUTPUT”, and press \( \rightarrow \uparrow \downarrow \).

3. Use \( \uparrow \downarrow \) to select “Mixer”, and press \( \rightarrow \uparrow \downarrow \).

4. Change the parameter settings as desired.

   - **Mixing controls**

   Move cursor/change value: \( \uparrow \downarrow \) up/down

   Select parameter to change: \( \rightarrow \) Press

5. Press \( \text{[Mixer]} \) 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.
Using the tuner

The input signal can be used to tune an instrument.

1. Press [Tools].

2. Use [Select] to
   select “TOOL”,
   and press [Enter].

3. Use [Select] to
   select “Tuner”,
   and press [Enter].

4. Use [Select] to select the
   tuning type,
   and press [Enter].

5. Use [Select] to change the
   standard pitch.

HINT
The standard pitch can be set in a
range between 435Hz–445Hz.
6. For all tuner types except chromatic, you can use 
\(<\) and \(>\) to change the pitch (drop tuning).

**HINT**
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

- **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

<table>
<thead>
<tr>
<th>Tuner type</th>
<th>String number/note name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guitar</td>
<td>E B G D A E B</td>
</tr>
<tr>
<td>Bass</td>
<td>G D A E B</td>
</tr>
<tr>
<td>Open A</td>
<td>E C# A E A E</td>
</tr>
<tr>
<td>Open D</td>
<td>D A F# D A D</td>
</tr>
<tr>
<td>Open E</td>
<td>E B G# E B E</td>
</tr>
<tr>
<td>Open G</td>
<td>D B G D G D</td>
</tr>
<tr>
<td>DADGAD</td>
<td>D A G D A D</td>
</tr>
</tbody>
</table>
Using the metronome

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

1. Press 🔄.

2. Use ↑↓ to select “TOOL”, and press →↓.

3. Use ↑↓ to select “Metronome”, and press →↓.

4. Use ↑↓ to select a menu item, and press →↓.

   - Select “Click”:
     Use ↑↓ to set when the metronome is active, and press →↓.

   - Select “Pre Count” (→ P.32)
   - Select “Tempo”:
     Use ↑↓ to set the speed, and press 🔄.
Select “Sound”
Use 


to set the sound,
and press 

Select “Pattern”
Use 


to set the pattern,
and press 

Select “Level”
Use 


to set the metronome volume, and press .
Reducing noise (low cut filter)

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

1. Press 0.

2. Use \( \uparrow \downarrow \) to select “INPUT&OUTPUT”, and press  

3. Use \( \uparrow \downarrow \) to select “Lo Cut”, and press  

4. Use \( \uparrow \downarrow \) to select the track you want to apply the low cut filter to, and press  

5. Use \( \uparrow \downarrow \) to select the cutoff frequency of the low cut filter, and press  

- MENU : Return
Using the input compressor/limiter

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

1. Press.

2. Use to select “INPUT&OUTPUT”, and press.

3. Use to select “Comp/Limiter”, and press.

4. Use to select the track you want to affect, and press.

5. Use to select the type of compressor/limiter, and press.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Explanation</th>
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</thead>
<tbody>
<tr>
<td>Off</td>
<td>Compressor/limiter OFF</td>
</tr>
<tr>
<td>Comp1 (General)</td>
<td>Standard compressor Compressors reduce high levels and raise low levels.</td>
</tr>
<tr>
<td>Comp2 (Vocal)</td>
<td>Compressor for vocals</td>
</tr>
<tr>
<td>Comp3 (Drum)</td>
<td>Compressor for drums and percussion</td>
</tr>
<tr>
<td>Limiter1 (General)</td>
<td>Standard limiter Limitters reduce the level when input signals exceed a set level.</td>
</tr>
<tr>
<td>Limiter2 (Concert)</td>
<td>Limiter for live performances</td>
</tr>
<tr>
<td>Limiter3 (Studio)</td>
<td>Limiter for studio recording</td>
</tr>
</tbody>
</table>
Adjusting the input signal monitoring mix

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

1. Press [ ].

2. Use [ ] to select “INPUT&OUTPUT”, and press [ ].

3. Use [ ] to select “Monitor Mixer”, and press [ ].

4. Change parameters as desired.

- **Mixing controls**

  Move cursor/change value: Move [ ] up/down

  Select parameter to change: Press [ ]

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<td>Volume</td>
<td>Mute, −48.0 – +12dB (in 0.5dB increments)</td>
<td>Adjusts track volume</td>
</tr>
<tr>
<td>Panning</td>
<td>L100 – CENTER – R100</td>
<td>Adjusts left–right position of sound.</td>
</tr>
</tbody>
</table>

**NOTE**

- The use of volume and panning settings only affect the monitoring signal. They do not affect the recorded data.
- Use the Project Mixer to adjust the balance during playback. (→ P.46)
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. (→ 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.

1. Press 

2. Use \( \uparrow \downarrow \) to select “INPUT&OUTPUT”, and press \( \rightarrow \downarrow \).

3. Use \( \uparrow \downarrow \) to select “MS-RAW Monitor”, and press \( \rightarrow \downarrow \).

4. Use \( \uparrow \downarrow \) to select “RAW”, and press \( \rightarrow \downarrow \).

NOTE
Select “Stereo” if you want to monitor with an ordinary stereo mix.
Setting the recording format

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

1. Press [REC].

2. Use up and down to select “REC”, and press [SET].

3. Use up and down to select “Rec Format”, and press [SET].

4. Use up and down to select the desired format, and press [SET].

**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.

1. Press ．

2. Use  to select “REC”, and press ．

3. Use  to select “Auto Rec”, and press ．

4. To set the recording starting level, use  to select “Set Start & Stop Level”, and press ．

5. Use  to select “Start Level”, and press ．

6. Use  to set the start level, and press ．

Recording will start automatically when the input level exceeds the set level.

NOTE
In step 5, you can also choose “Stop Level”.
Enabling automatic stopping

1. To set the automatic stopping time, use \( \uparrow \downarrow \) to select “Auto Stop”, and press \( \rightarrow \uparrow \downarrow \).

2. Use \( \uparrow \downarrow \) to set the stop time, and press \( \rightarrow \uparrow \downarrow \).

3. Set the stop level in the same manner as the start level. (→ P.84)

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 

2. Use 
   to select
   “REC”, and
   press 

3. Use 
   to select
   “Project Name”,
   and press 

4. Use 
   to select
   the type,
   and press 

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

Inputs 1–4 can provide phantom power of +12V, +24V or +48V.

1. Press \( \text{[ON/OFF]} \).

2. Use \( \text{[Up/Down]} \) to select “INPUT&OUTPUT”, and press \( \text{[Enter]} \).

3. Use \( \text{[Up/Down]} \) to select “Phantom”, and press \( \text{[Enter]} \).

4. Use \( \text{[Up/Down]} \) to select a menu item, and press \( \text{[Enter]} \).

- Select “ON/OFF”
  Use \( \text{[Up/Down]} \) to select the input you want to set, and press \( \text{[Enter]} \).

- Select “On”
  Use \( \text{[Up/Down]} \) to select “On”, and press \( \text{[Enter]} \).

- Select “Voltage”
  Use \( \text{[Up/Down]} \) to select the desired voltage, and press \( \text{[Enter]} \).

Inputs 1–4 can provide phantom power of +12V, +24V or +48V.
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**.

1. Press [ ].

2. Use [ ] to select “INPUT&OUTPUT”, and press [ ].

3. Use [ ] to select “Plugin Power”, and press [ ].

4. Use [ ] to select “On”, and press [ ].
Using VU meters to check input levels

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

1. Press \( \textcircled{1} \).

2. Use \( \textcircled{2} \) to select “INPUT&OUTPUT”, and press \( \textcircled{3} \).

3. Use \( \textcircled{4} \) to select “VU Meter”, and press \( \textcircled{5} \).

4. Use \( \textcircled{6} \) to adjust input levels and check them here.

5. Use \( \textcircled{7} \) to adjust the reference that is used for 0VU.

**HINT**

The reference level can be set between –20dBFS and –10dBFS. The dBFS unit represents the loudness of the signal in dB with 0dBFS being the maximum recordable value for the digital data.
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.

1. Press 

2. Use to select “SYSTEM”, and press 

3. Use to select “Backlight”, and press 

4. Use to select “Power Saving”, and press 

5. Use to select the desired setting, and press 

NOTE
When using an AC adapter, this setting has no effect.
Adjusting the display brightness

1. Press \[\text{[0]}\].

2. Use \[\uparrow\downarrow\] to select “SYSTEM”, and press \[\rightarrow\uparrow\downarrow\].

3. Use \[\uparrow\downarrow\] to select “Backlight”, and press \[\rightarrow\uparrow\downarrow\].

4. Use \[\uparrow\downarrow\] to select “Brightness”, and press \[\rightarrow\uparrow\downarrow\].

5. Use \[\uparrow\downarrow\] to select the desired brightness, and press \[\rightarrow\uparrow\downarrow\].
Checking the firmware versions

You can check the software versions used by the H6.

1. Press \( \textcircled{\text{on}} \).

2. Use \( \text{up} \), \( \text{down} \), \( \text{left} \), \( \text{right} \) to select “SYSTEM”, and press \( \text{left} \), \( \text{right} \).

3. Use \( \text{up} \), \( \text{down} \), \( \text{left} \), \( \text{right} \) to select “Software Version”, and press \( \text{left} \), \( \text{right} \) to open a screen where you can view the firmware versions.
Restoring the default settings

You can restore the unit to its factory default settings.

1. Press \[ \text{功能键} \].

2. Use \[ \text{向上键} \] to select “SYSTEM”, and press \[ \text{确认键} \].

3. Use \[ \text{向上键} \] to select “Factory Reset”, and press \[ \text{确认键} \].

4. Use \[ \text{向上键} \] to select “Yes”, and press \[ \text{确认键} \] to restore the default settings.
   The power will automatically turn off.

**NOTE**
Input level settings are not reset.
Checking SD card open space

1. Press \[ \text{key} \].

2. Use \[ \text{arrow keys} \] to select “SD CARD”, and press \[ \text{key} \].

3. Use \[ \text{arrow keys} \] to select “SD Card Remain”, and press \[ \text{key} \] to see the amount of remaining open space on the card.
## Formatting SD cards

SD cards must be formatted by the H6 for use with it.

1. Press \[ \text{[ ]} \].

2. Use \[ \uparrow \downarrow \] to select “SD CARD”, and press \[ \rightarrow \].

3. Use \[ \uparrow \downarrow \] to select “Format”, and press \[ \rightarrow \].

4. Use \[ \uparrow \downarrow \] to select “Yes” and press \[ \rightarrow \] to format the SD card.

### 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 $\text{[↓]}$.

2. Use $\text{[↑][↓][→][←]}$ to select “SD CARD”, and press $\text{[↓]}$.

3. Use $\text{[↑][↓][→][←]}$ to select “Performance Test”, and press $\text{[↓]}$.

4. Press $\text{[●]}$ to start the performance test.

5. When the test completes, the result will be shown. If the MAX access rate is 100%, the result will be “NG” (no good).

6. To cancel testing, press $\text{[●]}$.

**NOTE**

Even if an SD card is evaluated as “OK” by the performance test, this does not guarantee that write errors will never occur. Please use this test just as a guide.
**Updating the firmware**

The H6 can be updated to the latest firmware versions.

1. 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 [1].

3. Use [▲][▼][△] to select “Yes”, and press [►][△] to update the firmware.

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

**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.

2. Use \[ \text{\textarrowup{\textrightarrow{\textarrowdown{}}} } \] to select “Yes”, and press \[ \text{\textrightarrow{\textarrowdown{}}} \] to move the files.

**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 **H6** 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 **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.
  - Confirm that the volume of the **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.
  - Check the input level settings. (→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. (→P.94)
  - If “Hold is On” appears on the display, the hold function is enabled. Disable the hold function. (→P.20).

**Other trouble**

- **The **H6** is not recognized by a computer when connected by USB**
  - Check that the OS of the computer is compatible. (→P.66).
  - A USB operation mode must be selected on the **H6** to allow a computer to recognize it. (→P.66).
## Specifications

| Recording media | 16MB–2GB SD cards, 4GB–32GB SDHC cards, 64GB–128GB SDXC cards |
| L/R inputs | XY mic (XYH-6) |
| | Mic type: Directional |
| | Sensitivity: –41 dB, 1 kHz at 1 Pa |
| | Input gain: –∞ to 46.5 dB |
| | Maximum sound pressure input: 136 dB SPL |
| | XY mic (XYH-6) |
| | Mic type: Directional |
| | Sensitivity: –41 dB, 1 kHz at 1 Pa |
| | Input gain: –∞ to 46.5 dB |
| | Maximum sound pressure input: 136 dB SPL |
| | MIC/LINE IN stereo mini jack |
| | Input gain: –∞ to 46.5 dB |
| | Input impedance: 2 kΩ |
| | Plug-in power: 2.5V supported |
| Inputs | MS mic (MSH-6) |
| | Mic types: Directional and bidirectional |
| | Sensitivity: –37 dB, 1 kHz at 1 Pa (directional), –39 dB, 1 kHz at 1 Pa (bidirectional) |
| | Input gain: –∞ to 42.5 dB |
| | Maximum sound pressure input: 120 dB SPL (directional), 122 dB SPL (bidirectional) |
| | Backup input: Set input gain: –12 dB |
| | Connectors: 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 |
| | Maximum allowable input level: +22 dBu (PAD ON) |
| | Phantom power: +12/+24/+48V (can be turned ON/OFF independently for INPUTS 1–4) |
| | Equivalent input noise (EIN): –120 dBu or less |
| Outputs | Output jack |
| | LINE OUT stereo mini jack (rated output level: –10 dBu when output load impedance is 10 kΩ or more) |
| | PHONE OUT stereo mini jack (20 W + 20 W into 32Ω load) |
| | Built-in speaker: 400 mW/8 Ω mono speaker |
| Recording formats | WAV setting |
| | Supported formats: 44.1/48/96kHz, 16/24-bit, mono/stereo, BWF format |
| | Maximum simultaneous recording tracks: 8 tracks (6 tracks + backup stereo recording) |
| | MP3 setting |
| | Supported formats: 48–320 kbps |
| | Maximum simultaneous recording tracks: 2 tracks |
| Recording time | With 2GB card |
| | 3:08:00 (44.1kHz/16-bit WAV) |
| | 34:43:00 (128kbps MP3) |
| Display | 2” full-color LCD (320 x 240) |
### Specifications

#### USB

<table>
<thead>
<tr>
<th>Mass storage class operation</th>
<th>Class: USB 2.0 High Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio interface operation: multi track mode (Note: Use with Windows requires a driver, but Macintosh does not)</td>
<td>Class: USB 2.0 High Speed</td>
</tr>
<tr>
<td>Specifications: 6 in/2 out, 44.1/48kHz/96kHz sampling rate, 16/24-bit bit rate</td>
<td></td>
</tr>
<tr>
<td>Audio interface operation: stereo mode</td>
<td>Class: USB 2.0 Full Speed</td>
</tr>
<tr>
<td>Specifications: 2 in/2 out, 44.1/48kHz sampling rate, 16-bit bit rate</td>
<td></td>
</tr>
</tbody>
</table>

Note: Use as an iPad audio interface supported (stereo mode only)

Note: USB bus power operation possible

#### Approximate continuous recording times when using battery power (in hours and minutes)

- Recording mode
  - XY mic, 44.1kHz/16-bit (stereo x 1) 21h00m
  - XY mic and Inputs 1, 2, 3 and 4 used, 96kHz/24-bit (stereo x 3) 9h45m

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.

#### Power

- Operating using 4 AA batteries
- AC adapter: DCSV 1A AD-17 (sold separately)
- USB bus power

#### Dimensions

- Main unit: 77.8 mm (W) x 152.8 mm (D) x 47.8 mm (H), 280 g
- 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

#### Included accessories

- Operation manual
- SD card
- 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

Declaration of Conformity:
This product complies with the requirements of
EMC Directive 2004/108/EC and
Low Voltage Directive 2006/95/EC and
ErP Directive 2009/125/EC and
RoHS Directive 2011/65/EU

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.