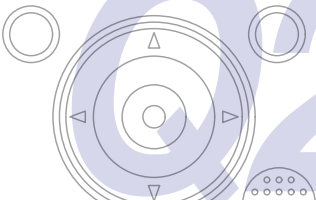
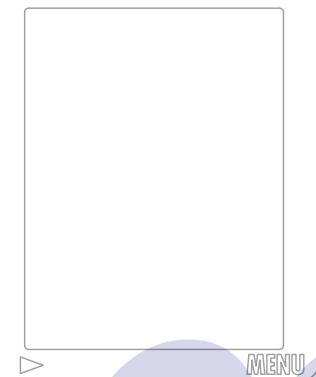


Q2HD Handy Video Recorder



***Handy
Video
Recorder***

Q2 HD

User Guide

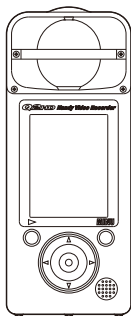
Safety and Operation
Precautions must be read
before using the unit.

© ZOOM CORPORATION

Copying or reproduction of this User
Guide in part or in whole without
permission is prohibited.

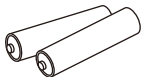
Items included with this product

- **Q2 HD unit**



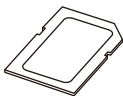
- **2 AA batteries**

(for testing the unit)



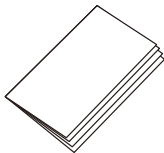
Note: Use alkaline batteries or rechargeable NiMH batteries.

- **SD card**



- **User Guide**

(this manual)

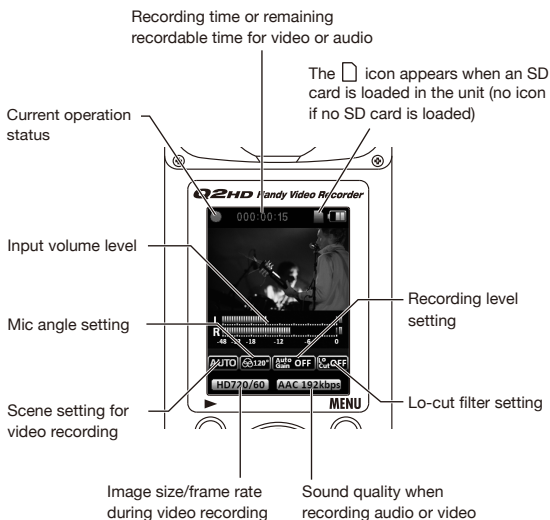


HandyShare software for video editing and sharing

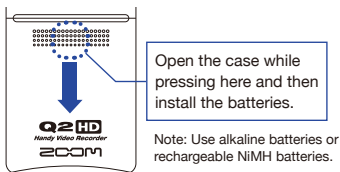
Install HandyShare on your computer to use it. Access the included SD card from the computer and double-click the HandyShare installer on it. If your computer does not already have QuickTime installed, follow the instructions that appear on your screen after starting HandyShare to install it.

Part functions

Parts of the unit

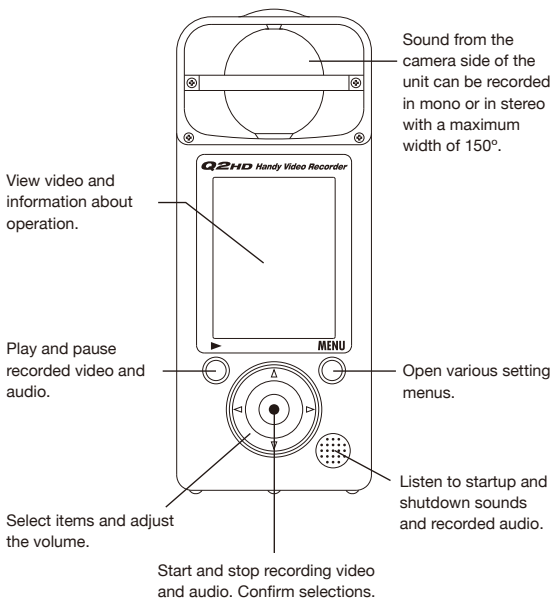


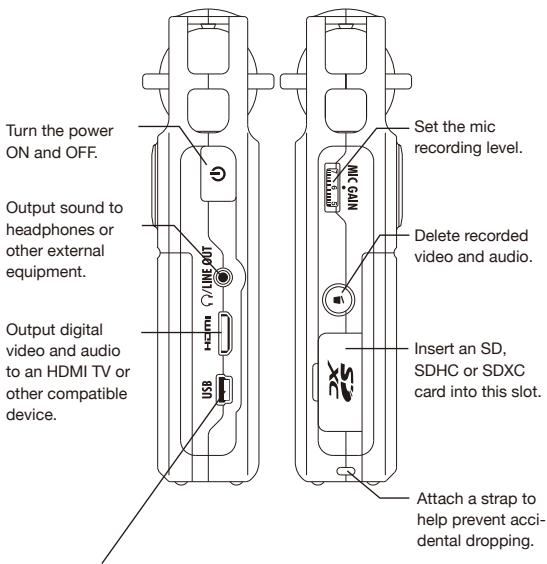
Installing batteries



Part functions (continued)

■ Parts of the unit




















- Connect to a computer to power the recorder and use it as a card reader, USB mic or web camera.
- Connect to an iPad to use as a USB mic.
- A ZOOM AD-17 AC adapter (sold separately) can also be connected here.

Setting the date & time



The date and time are added to recorded video and audio files, so set it accurately before recording.



















1. Press  to open the Main Menu.
2. Use     to select  and press .
3. Use   to select **Set Date** and press .
4. Use     to set the current date and time.
5. After completing the setting, press .

Setting the battery type



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



1. Press  to open the Main Menu.
2. Use     to select  and press .
3. Use   to select **Battery** and press .
4. Use     to set the battery type and press .
5. After completing the setting, press .

Note: Use alkaline batteries or rechargeable NiMH batteries.

Formatting SD cards



You must format SD cards in the **Q2HD** to make them usable with the recorder.

Note: Formatting a card will permanently erase all data on it.



1. Press **MENU** to open the Main Menu.
2. Use **▲▼◀▶** to select **SETTING** and press **●**.
3. Use **▲▼** to select **SD Format** and press **●**.
4. Use **◀▶** to select “**Yes**” to format or “**No**” to cancel and press **●**.
 - Select “**Yes**” to start formatting.
 - Select “**No**” to return to the **SETTING** menu.
5. After formatting completes, “**Done**” appears on screen and the **SETTING** menu reopens.

NOTE

If the SD card's write-protection switch is **ON**, the card cannot be formatted.

Reducing noise



Turn the low-cut filter function on to reduce wind sounds and other noise.



1. Press to open the Main Menu.
2. Use to select and press .
3. Use to select **Lo Cut** and press .
4. Use to select **On** or **Off** and press .
5. After completing the setting, press .

NOTE

Use the windscreen included in the APQ-2HD accessory package to further reduce noise.

Turning sound monitoring on or off



Turn this on to listen to the sound being recorded through the line/headphones and HDMI outputs.

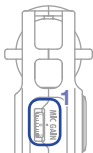


1. Press to open the Main Menu.
2. Use to select and press .
3. Use to select **Sound Monitor** and press .
4. Use to select **On** or **Off** and press .
5. After completing the setting, press .



Adjusting the recording level

By changing the recording level gain, you can record anything from quiet sounds to loud rock shows at the optimal level. You can set the gain manually or let the recorder set it automatically.



- Use the **MIC GAIN** dial to adjust the mic sensitivity to suit the recording conditions.

■ Using the Auto Gain setting



1. Press **MENU** to open the Main Menu.
2. Use **▲▼◀▶** to select **INPUT** and press **●**.
3. Use **▲▼** to select **Auto Gain** and press **●**.
4. Use **▲▼** to set the mic sensitivity and press **●**.

Off

Use the MIC GAIN dial to adjust manually.

Concert

Use for band performances, concerts and other loud situations.

Solo

Use for solo performances and other quiet situations.

Meeting

Use for meetings and other field recordings.











5. After completing the setting, press **MENU**.

Video scene setting



You can set the camera light sensitivity to suit the video recording conditions. This allows the unit to record video optimally even in dark places and on stages with bright lights.



1. Press  to open the Main Menu.
2. Use     to select  and press .
3. Use   to set the mode and press .

Auto


Adjusts to lighting conditions automatically.

Concert lighting

Best for concerts and other situations with bright lights.

Night

Best for nighttime and other dark situations.

4. After completing the setting, press .

Setting the image quality



You can set the resolution and frame rate used for recording. The amount of available recording time decreases as the image quality is increased.



1. Press to open the Main Menu.
2. Use to select and press .
3. Use to select the video quality and frame rate and press .
4. After completing the setting, press .

Setting	Resolution	Frames/second	Main uses	File size
HD1080/30	1920 x 1080	30	HD TV playback	
HD720/60	1280 x 720	60	Recording fast movement	
HD720/30	1280 x 720	30	HD TV and computer playback	
WVGA/60	800 x 480	60	Saving SD card space and recording fast movement	
WVGA/30	800 x 480	30	Saving SD card space	

Setting the sound quality



You can set the sound quality to use for recording video and audio. The amount of available recording time decreases as the sound quality is increased.



1. Press **MENU** to open the Main Menu.
2. Use **▲▼◀▶** to select **SOUND** and press **○**.
3. Use **▲▼** to set the audio quality and press **○**.
4. After completing the setting, press **MENU**.

Setting	Description	File size
PCM 96/24	Record in an uncompressed PCM WAV format when recording quality is important.	Larger Smaller
PCM 96/16		
PCM 48/24		
PCM 44.1/24		
PCM 48/16		
PCM 44.1/16	Record in a compressed AAC format when you need to save SD card space.	
AAC 320kbps		
AAC 256kbps		
AAC 192kbps		
AAC 128kbps		
AAC 64kbps	The higher the bit rate (kbps) value, the better the audio quality.	

Setting the mic angle



You can set the stereo width recorded by the built-in stereo mic.



1. Press **MENU** to open the Main Menu.
2. Use **▲▼◀▶** to select **MIC** and press **●**.
3. Use **◀▶** to set the mic angle.

MONO

Record in mono

30°, 60°, 90°, 120°, 150°

Record using the set stereo width

4. After completing the setting, press **MENU**.

NOTE


You can also use **◀▶** to set the mic angle while recording or using the USB mic function.


Recording audio and video







From the main operation screen, you can start recording audio or video by pushing a single button.



1. After preparing to record audio or video, press  to start recording.

- To set whether to record video with audio or audio only, use  .



- Use   to zoom in and out, and use   to adjust the monitoring volume.




Zoom in and out



Audio only



Adjust the volume

2. After completing the setting, press  to return to the main operation screen.

NOTE

If the transfer speed to the card is not fast enough during video/audio recording, “**Low Speed Card!**” appears on the screen and recording stops. To avoid this, we recommend using cards that are Class 4 or faster. Information about SD cards that can be used with this unit can be found at www.zoom.co.jp.

Playing recordings



You can play back recorded audio and video.



1. When the main operation screen is open, press .
2. If you want to play a different file, use to select it and press .

Functions of other buttons

- Adjust the volume
- Press and hold during playback to search backward/forward.
- Press to pause during playback and restart when paused.



NOTE

- Only files that have been recorded with the **Q2 HD** can be played back on it.
- During video playback, press and hold to show the video in landscape view. In this mode, use to adjust the volume and to search forward/backward. Press and hold again to return to vertical display.

Deleting recordings

You can delete recorded video and audio files to increase the amount of open space on the media card.

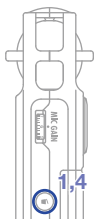



1. Press  while the file that you want to delete is playing.
 - If you press this when on the main operation screen, the last recorded or played file will be selected for deletion.
2. When the confirmation screen opens, select “Yes” to delete the recording or “No” to cancel, and then press .










■ Deleting multiple recordings at the same time





1. Press  when on the main operation screen or while playing to show the “Delete this file?” message.


- Press  again to open the file selection screen

2. Use     to select a recording that you want to delete and press .

3. Repeat step 2 as many times as necessary to select more files to delete.

- To delete all files on the card, press .

4. Press  when you are done selecting files.

5. When the confirmation screen opens, select “Yes” to delete the recordings or “No” to cancel, and then press .



Editing recordings

Recorded video and audio files can be divided and trimmed.



1. Press **MENU** to open the Main Menu.
2. Use **▲▼◀▶** to select **FILE** and press **○**.
3. Thumbnails of the recorded files are shown. Use **▲▼◀▶** to select the file that you want to edit and press **○**.
4. The editing menu opens. Use **▲▼** to select the item you want and press **○**.
 - See the following page for the editing options.
5. After editing, a confirmation screen opens. Select **“Yes”** to execute the change or **“No”** to cancel, and then press **○**.
6. When you are done editing, press **MENU** **○**.

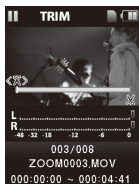


DIVIDE



- Change the file dividing point
- Play/pause
- Confirm the file dividing point

TRIM (partial deletion)



- Move trim points to set how much of the file beginning/end to delete
- Switch between beginning and end trim points
- Play/pause
- Confirm the trim points

INFORMATION (about the file)



- Return to the editing menu

Connecting external devices

This unit can be connected to various external devices as needed.

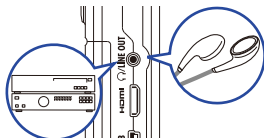
■ Connect to a computer (by USB) to use as a card reader, USB mic or Web camera

Use a USB cable to connect to a computer or iPad.
See "Connecting by USB" on page 20.

■ Listen with headphones or audio equipment (LINE OUT connection)

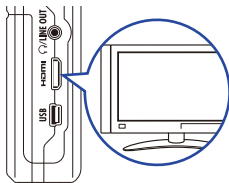
Use this connector when you want to use headphones or an external audio device's amplifier to listen. Turn monitoring on to listen through headphones to sound input during recording.

See "Turning sound monitoring on or off" on page 7.



■ View on a TV (HDMI connection)

Use an HDMI cable to connect the unit to an HDMI TV to view recordings in high definition.



NOTE

Some TVs might not support the audio format and correct playback might not be possible.


CAUTION

The **Q2 HD** HDMI uses a Type C Mini connector. When using an HDMI cable (purchased separately), be sure to use a High Speed HDMI (category 2) cable that has a Type C Mini connector on one end to connect to the **Q2 HD** and a connector that matches your TV's HDMI input on the other.

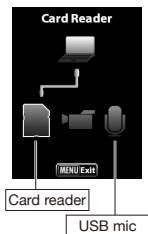
Connecting by USB






Connect with a computer using a USB cable to use this recorder as a card reader or USB mic. You can also use it as a web camera to stream video and audio. Connected to an iPad, you can use it as a USB mic.

NOTE

- When connected to a computer, power can be supplied by USB. The recorder will not turn on just by connecting the cable. Press  to turn it on.
- When connected to an iPad, power is not supplied by USB.

■ Using with a computer as a card reader or USB mic



1. Connect the recorder to a Windows PC or Macintosh with a USB cable.
2. Press  to turn it on.
 - The USB operation screen will appear.
3. To use as a card reader, use   to select the card icon and press . To use as a USB mic, select the mic icon and press .
 - The computer should recognize the recorder.
4. After you have finished using the recorder with the computer, disconnect it properly.
 - After use as a card reader, unmount the card reader volume from the computer before disconnecting the USB cable.
 - After use as a USB mic, just disconnect the USB cable.

NOTE





While using the recorder as a USB mic, you can use the functions and adjust the mic angle.



Connecting by USB (continued)

■ Using the recorder as a Web camera



1. Connect the recorder to a Windows PC or Macintosh with a USB cable.
2. Press  to turn it on.
 - The USB operation screen will appear.
3. Use   to select the video icon and press .
4. After the **Q2HD** connects to the computer, you can use it as a web camera for video streaming and other applications.
5. When you have finished using the recorder with the computer, unmount the unit from the computer before disconnecting the USB cable.

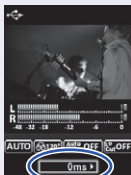
NOTE

- The **Q2 HD** can simultaneously transmit video and audio of up to HD720p and 48kHz/16bit WAV quality.
- Computer playback cannot be output from the **Q2 HD**.
- A driver stored on the included SD card is necessary to use the unit as a web camera. (This driver can also be downloaded from www.zoom.co.jp.)
- When connected as a web camera, you can use the functions, set the scene type and adjust the mic angle. You cannot, however, change settings while streaming.



■ Delay setting











When using the recorder as a web camera, if the a streaming application does not have a lip synchronization function, use ◀ ▶ to set the audio delay so that it matches the timing of the video.




Using as a USB mic with an iPad

You can use this recorder as a USB mic by connecting it to an iPad using an Apple Camera Connection Kit.



1. Press  to open the Main Menu.
2. Use     to select  and press .
3. Use   to select the mic icon and press .
4. Use the Apple Camera Connection Kit to connect the recorder with an iPad by USB cable.
 - The iPad should recognize the recorder.
5. When you have finished, disconnect the USB cable.

CAUTION

- If the **Q2 HD** does not have batteries or enough remaining battery charge, it cannot be used as a USB mic with an iPad.
- While using the recorder as a USB mic, you can use  functions and adjust the mic angle.

Display brightness/power saving

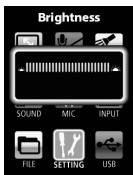


You can adjust the brightness of the display and set the screen to turn off automatically to save power.



1. Press **MENU** to open the Main Menu.
2. Use **▲▼◀▶** to select **SETTING** and press **○**.
3. Use **▲▼** to select **Backlight** and press **○**.

■ Adjusting the display brightness



Brightness

4. Use **▲▼** to select **Brightness** and press **○**.
5. Use **◀▶** to set the brightness and press **MENU ○**.

■ Set the power saving mode



Power saving

4. Use **▲▼** to select Power Saving and press **○**.
5. Use **▲▼** to select **On** or **Off** and press **○**.

NOTE


- When on, the display will darken if no operation has occurred for 30 seconds.
- When using an AC adapter, this setting is ignored.

Setting HDMI video output



Set the HDMI video output format to suit the TV.



1. Press **MENU** to open the Main Menu.
2. Use **▲▼◀▶** to select  and press **●**.
SETTING
3. Use **▲▼** to select **HDMI Out** and press **●**.
4. Use **▲▼** to select **NTSC** or **PAL** and press **●**.
5. After completing the setting, press **MENU**.

NOTE

NTSC is used in North America. Most other English-speaking regions use PAL.



Viewing information

You can check the firmware version and remaining recordable memory.



1. Press **MENU** to open the Main Menu.
2. Use **▲▼◀▶** to select **SETTING** and press **○**.
3. Use **▲▼** to select **Information** and press **○**.
4. Check the information.
5. When you are done checking, press **MENU**.



Restoring default settings

You can reset the **Q2HD** settings, including the scene type and video and audio quality, to their factory defaults.



1. Press **MENU** to open the Main Menu.
2. Use **▲▼◀▶** to select **SETTING** and press **○**.
3. Use **▲▼** to select **Reset** and press **○**.
4. Use **◀▶** to select "Yes" to reset or "No" to cancel, and press **○**.
5. After resetting completes, "Done" appears and the **SETTING** menu reopens.





Upgrading the firmware version

Upgrade the firmware version when necessary.

NOTE

You can check the firmware version using the **Information** item in the **Setting** menu.



- The latest version of the firmware can be downloaded from www.zoom.co.jp.
1. Copy the file for upgrading the firmware to the root directory on the SD card.
 2. Insert the SD card into the unit's card slot.
 3. While pressing and holding , press  until the unit starts and the **FIRMWARE UPDATE** screen opens.
 4. If the version upgrade shown is the one desired, select "Yes" and press .
 5. When "Complete!" appears after the version upgrade completes, press  to turn the power off.



CAUTION

Upgrading the firmware version is not possible if the remaining battery power is low.

Safety and Operation Precautions



This indicates something that could cause serious injury or death.



This indicates something that could cause bodily injury or damage to property.

Explanation of icons



This must be done.



This must not be done.



■ Power and batteries

- ! Use only a ZOOM AD-17 AC adapter (sold separately).
- ! Unplug the AC adapter when the unit will not be used for a long time.
- ! When using batteries, insert two commercially-available AA-size alkaline batteries or NiMH rechargeable batteries with the correct orientations.
- ! Remove batteries from the unit if they will not be used for a long time.

■ Handling

- ⊘ Do not disassemble or modify this device.



■ Operation environment

- ⊘ Do not use in places that become extremely hot or cold.
- ⊘ Do not use near heating devices or other sources of heat.
- ⊘ Do not use in places that are extremely humid or exposed to water.
- ⊘ Do not use in sandy or dusty places.
- ⊘ Do not use in places with frequent vibrations.

■ Handling

- ⊘ Do not apply excessive force to buttons or other moving parts.

You might need this User Guide in the future.
Always keep it in a place where you can access it easily.

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 the 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
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.

THIS PRODUCT IS LICENSED UNDER THE AVC PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NONCOMMERCIAL USE OF A CONSUMER TO

- ENCODER VIDEO IN COMPLIANCE WITH THE AVC STANDARD ("AVC VIDEO") AND/OR
- DECODE AVC VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NONCOMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED TO PROVIDE AVC VIDEO.

NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION MAY BE OBTAINED FROM MPEG LA, LLC. SEE [HTTP://WWW.MPEGLA.COM](http://www.mpegla.com)



Windows is a trademark of Microsoft Corporation (USA). Apple, Macintosh, iPad, QuickTime and the QuickTime logo are registered trademarks or trademarks of Apple Inc. in the USA and other countries. The SD, SDHC and SDXC logos are trademarks. HDMI (High-Definition Multimedia Interface) and **HDMI** are trademarks of HDMI Licensing, LLC. Other product names, registered trademarks and company names in this document are the property of their respective companies. The contents of this document and the specifications of the product could be changed without notice.

ZOOM[®]

ZOOM CORPORATION

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