

SonicSound Technologies H6studio

SonicSound Technologies Zoom H6studio Handy Recorder User Manual

Model: H6studio

1. INTRODUCTION

The SonicSound Technologies Zoom H6studio is a versatile handy recorder designed for high-quality audio capture in various professional settings, including music production, filmmaking, and podcasting. It features advanced F-Series preamps, large-diaphragm XY microphones, and 32-bit float recording technology, ensuring pristine audio quality with extensive dynamic range. This manual provides essential information for setting up, operating, and maintaining your H6studio recorder.

2. WHAT'S INCLUDED

Your Zoom H6studio handy recorder package includes the following items:

- 1x Zoom H6studio Handy Recorder
- 1x USB 2.0 to C Cable (3ft/1m)
- 1x Microfiber Cleaning Cloth
- 1x 64GB MicroSDXC Memory Card with SD Adapter
- 1x Handgrip Tabletop Tripod
- 1x Superior Stereo Professional Headphone with Built-in Microphone
- 2x XLR Cable M to F (10 feet)
- 4x AA Batteries



Figure 2.1: Contents of the H6studio bundle.

3. PRODUCT FEATURES

The H6studio recorder is equipped with several features designed for professional audio capture:

- **32-Bit Float Recording:** Captures audio with an extended dynamic range, eliminating the need to set perfect gain levels and providing extensive flexibility in post-production.
- **F-Series Preamps:** Features ultra-low noise preamps with -127 dBu EIN for clear, high-fidelity recordings.
- **Large-Diaphragm XY Microphones:** The integrated XYH-5s mic capsule captures three-dimensional sound with natural depth and width, capable of withstanding up to 140 dB SPL.
- **8-Track Simultaneous Recording:** Record up to 8 tracks concurrently, ideal for complex audio projects.
- **USB-C Audio Interface:** Functions as a 6-in/2-out multi-track audio interface for Mac, Windows, iOS, and Android devices, supporting 32-bit float and 16/24-bit recording.
- **Advanced Look-Ahead Limiters:** Prevents clipping and distortion by anticipating potential overloads.
- **Versatile Output Options:** Includes a 20mW headphone output, 3.5mm stereo LINE OUT, and a built-in speaker for monitoring.
- **Accessibility Features:** Designed with accessibility in mind, offering audible descriptions for menu

navigation.

- **Long Battery Life:** Operates for up to 15 hours on 4 AA batteries and supports microSD cards up to 2TB.



The advertisement features two views of the Zoom H6studio Handy Recorder. The left view shows the device with its four large-diaphragm XY microphones attached, set against a dark background with a blue light source. The right view shows the device from a front-facing perspective, highlighting its control panel with four gain knobs, buttons for MIC, MODE, and DISP, and a small LCD screen displaying recording time and level meters. The Zoom logo is visible in the top left corner of the left image. The text 'H6studio' and 'STUDIO QUALITY SOUND' is prominently displayed in the upper right area.

zoom

H6studio

STUDIO QUALITY SOUND

zoom

H6studio
Handy Recorder

16/24bit Fixed
MODE
32bit Float
DISP

00:00:19 / 07:40:41

The H6studio features large-diaphragm XY microphones, four studio-grade preamps, and 32-bit float recording with dedicated gain knobs. Built with F-Series technology, it's the most advanced Handy Recorder to date.

Figure 3.1: H6studio with large-diaphragm XY microphones for studio-quality sound.

zooM

BIGGER MICS BIGGER SOUND

The H6studio's 19.4mm microphones capture a rich, flat-response with a wide dynamic range that can withstand 140 dB SPL, enough for a jet engine.

Dynamic Range Comparison

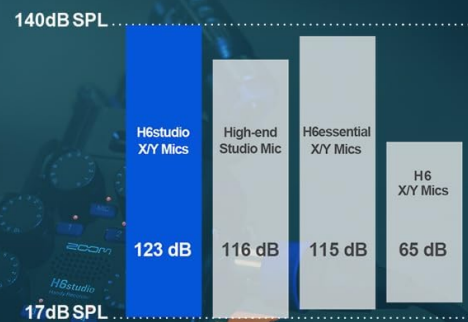


Figure 3.2: The H6studio's microphones offer a wide dynamic range.

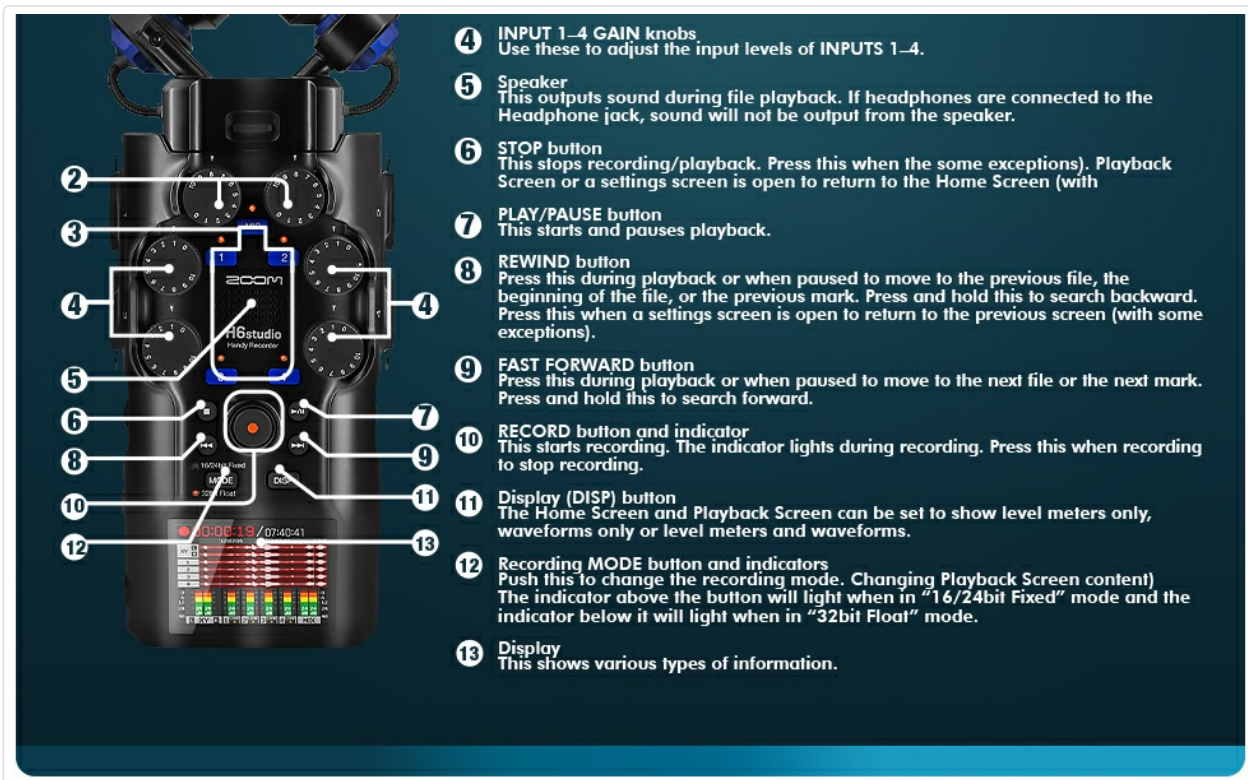


Figure 3.3: Advanced look-ahead limiters prevent distortion in dynamic environments.

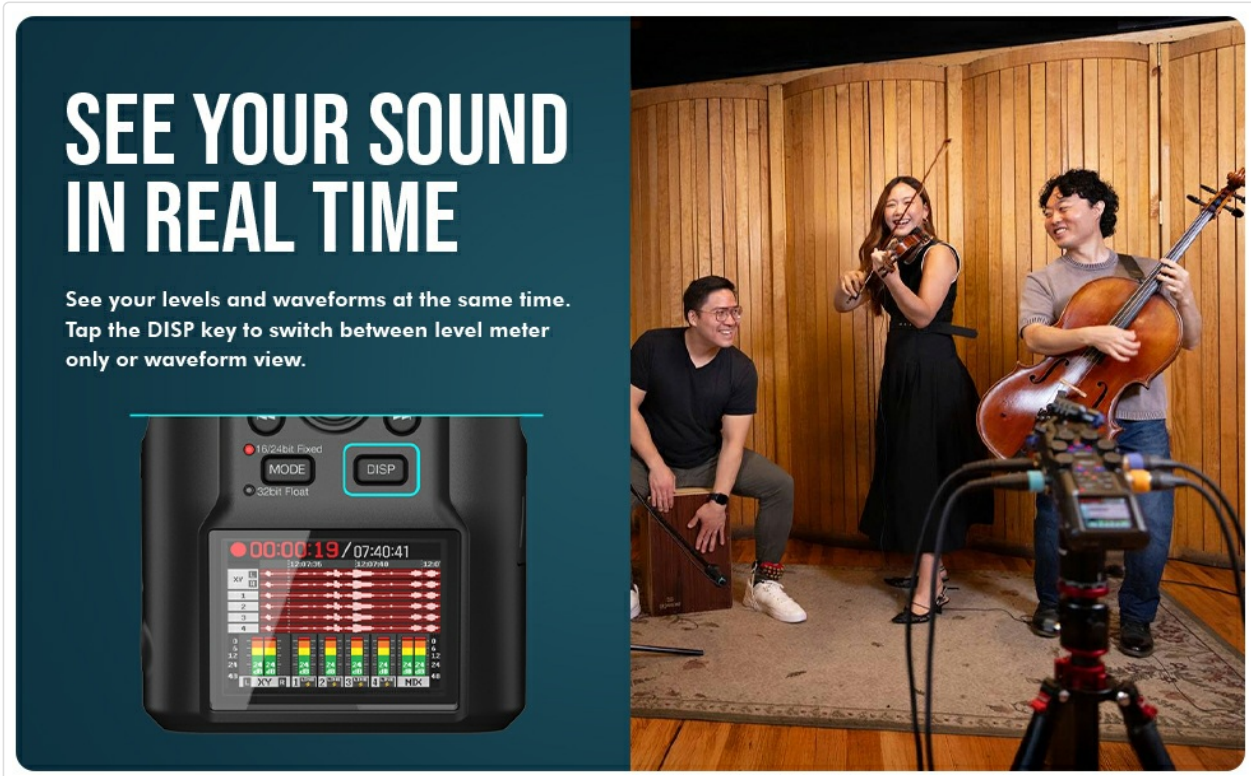


Figure 3.4: Versatile output options for monitoring and integration.



Figure 3.5: Overview of premium features for enhanced recording.

4. SETUP

Follow these steps to prepare your H6studio for use:

- 1. Install Batteries:** Open the battery compartment on the back of the unit and insert the four AA batteries,

ensuring correct polarity.

2. **Insert microSD Card:** Locate the microSD card slot on the side of the recorder. Insert the provided 64GB microSDXC card until it clicks into place.

3. **Attach Microphones/Inputs:**

- The H6studio comes with an integrated XYH-5s mic capsule. Ensure it is securely attached to the top of the unit.
- For external microphones or instruments, connect XLR or TRS cables to the INPUT 1-4 combo jacks. These inputs support phantom power for condenser microphones and +4 dBu line-level signals.

4. **Power On:** Press and hold the power button until the display illuminates.

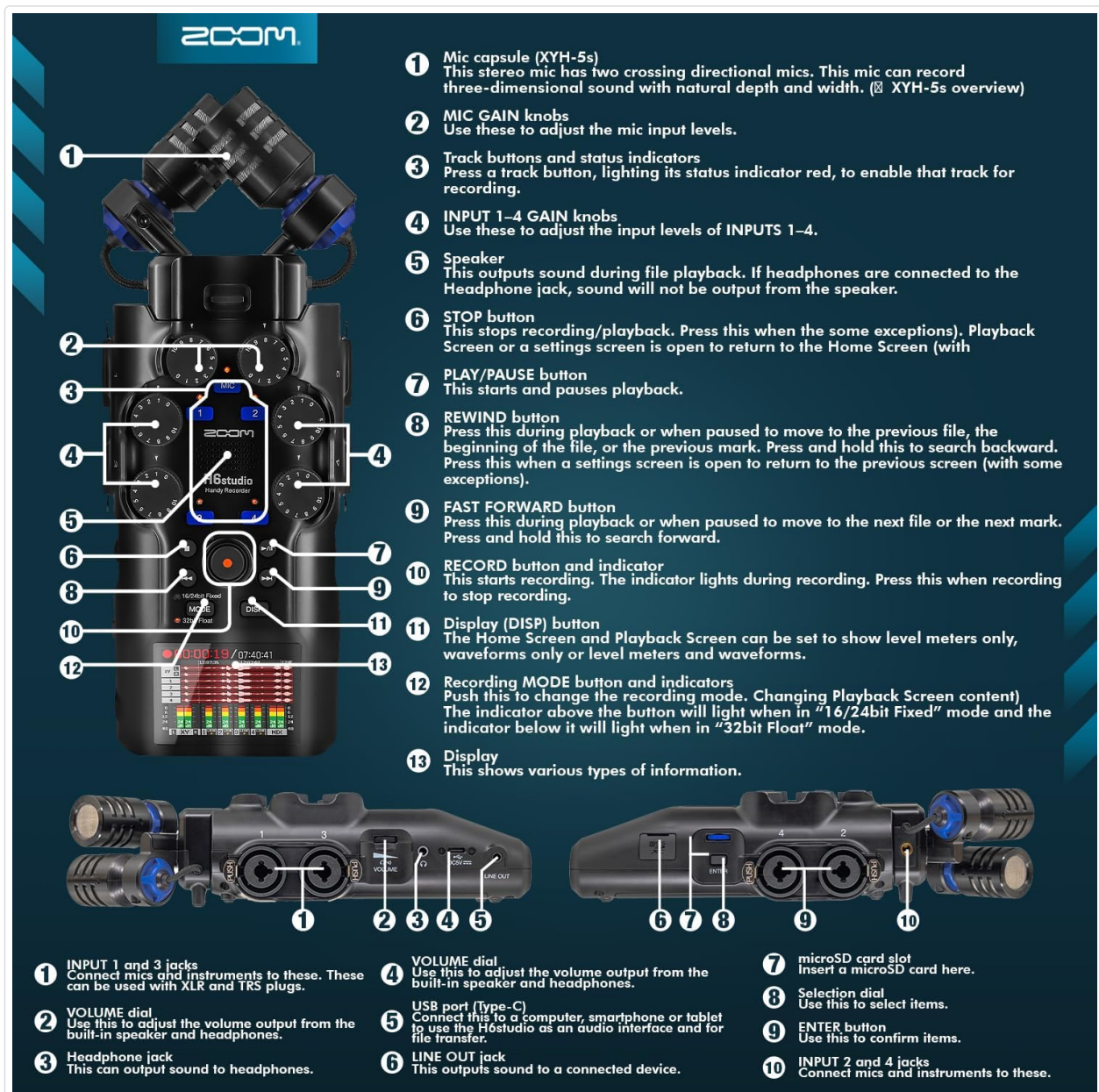


Figure 4.1: Front panel and input/output overview of the H6studio.

5. OPERATING INSTRUCTIONS

This section covers basic operation of your H6studio recorder:

5.1. Recording Audio

1. **Adjust Input Gain:** Use the dedicated gain knobs for each input (MIC, 1, 2, 3, 4) to set appropriate recording levels. The 32-bit float recording minimizes the risk of clipping, but setting a reasonable level is still recommended.
2. **Monitor Audio:** Connect headphones to the headphone jack for real-time monitoring. Alternatively, use the built-in speaker for quick audio checks.
3. **Select Recording Mode:** Press the MODE button to switch between 16/24-bit Fixed and 32-bit Float recording modes. The indicator below the button will light up accordingly.
4. **Start Recording:** Press the **RECORD** button. The indicator lights will illuminate, and recording will begin.
5. **Stop Recording:** Press the **STOP** button to end the recording.

5.2. Playback

1. **Select File:** Use the navigation buttons to browse and select recorded files.
2. **Start Playback:** Press the **PLAY/PAUSE** button to start playback.
3. **Pause/Resume:** Press the **PLAY/PAUSE** button again to pause or resume playback.
4. **Navigate:** Use the **REWIND** and **FAST FORWARD** buttons to skip through tracks or search within a file.
5. **Adjust Playback Volume:** Use the VOLUME dial to adjust the output level for headphones and the built-in speaker.

5.3. Display Options

Press the **DISP** button to cycle through different display modes, such as level meters only or waveform view, allowing you to monitor your sound in real-time.

ZOOM

DESIGNED FOR EVERYONE

The H6studio is designed with Accessibility for the blind and visually impaired. Navigate the menu with audible descriptions through the built-in speaker or headphones.



Figure 5.1: The H6studio is designed with accessibility in mind.



Figure 5.2: H6studio functioning as a USB audio interface.

Your browser does not support the video tag.

Video 5.1: An overview of the Zoom H6studio Handy Recorder's features and capabilities by SonicSound Technologies.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your H6studio:

- **Cleaning:** Use the provided microfiber cleaning cloth to gently wipe the unit's exterior. Avoid abrasive cleaners or solvents.
- **Battery Care:** Remove batteries if the unit will not be used for an extended period to prevent leakage.
- **Storage:** Store the recorder in a cool, dry place away from direct sunlight and extreme temperatures.
- **Microphone Care:** Handle the microphone capsules carefully to avoid damage.

7. TROUBLESHOOTING

If you encounter issues with your H6studio, refer to the following common solutions:

- **Unit Does Not Power On:** Check if the batteries are correctly inserted and charged. If using USB power,

ensure the cable and power source are functional.

- **No Audio During Recording/Playback:**

- Verify that microphones or input sources are properly connected.
- Check input gain levels; increase if too low.
- Ensure headphones are connected correctly, or if using the built-in speaker, that headphones are disconnected.

- **Distorted Audio:** While 32-bit float recording minimizes clipping, ensure input levels are not excessively high. Check for damaged cables or faulty microphones.

- **MicroSD Card Not Recognized:** Ensure the microSD card is fully inserted. Try reformatting the card (this will erase all data) or using a different compatible card.

For further assistance, please contact SonicSound Technologies customer support.

8. SPECIFICATIONS

Feature	Specification
Model	H6studio
Recording Format	32-bit Float, 16/24-bit WAV
Preamps	F-Series, -127 dBu EIN
Microphone Capsule	XYH-5s (Large-diaphragm XY)
Max SPL (XY Mics)	140 dB
Dynamic Range	132 dB
Simultaneous Tracks	Up to 8
USB Audio Interface	6-in/2-out (Mac, Windows, iOS, Android)
Storage Media	microSD/microSDHC/microSDXC (up to 2TB)
Power Source	4 AA batteries, USB/AC power
Battery Type	Alkaline
Item Weight	1.5 pounds
Package Dimensions	11 x 4.8 x 2.5 inches

9. WARRANTY AND SUPPORT

For warranty information, product registration, or technical support, please visit the official SonicSound Technologies website or contact their customer service department. Keep your proof of purchase for any warranty claims.

Contact Information:

- Brand: SonicSound Technologies
- Website: [SonicSound Technologies Official Site](#) (Link provided for reference, actual website may vary)

