

Zoom unveils the new H3-VR Virtual Reality Audio Recorder



Zoom introduces the sensational Virtual Reality audio recorder H3-VR providing a complete solution for capturing and processing 360-audio for VR, AR and mixed-reality content - all in one compact and portable device. With its own 4-capsule Ambisonics mic and onboard A/B decoder, the H3-VR records four channels of audio that automatically converts to be compatible with 360-audio. A process that currently requires a multi-piece rig and specialized software, can now be done intuitively with the all-new Zoom H3-VR Handy Recorder.

The H3-VR can also playback instantaneously stereo files both in standard and binaural modes, providing a hyper-realistic spatial audio recording for filmmakers, videographers and musicians looking to add VR depth to their sound. The H3-VR's compact, conical design captures audio from multiple angles without getting in the way of the video camera. After audio is recorded, the onboard Ambisonics playback feature allows you to rotate the H3-VR to simulate spatial audio while listening.

A 6-axis motion sensor provides the H3-VR with Auto Mic Position and Level Detection, so however you position the recorder from scene to scene, your 360 audio and video orientations will stay aligned.

The all-new Zoom H3-VR Handy Recorder now offers the unique capability of handling next-generation VR audio technology from one single recording device. The Zoom H3-VR will debut at the IBC Show at the RAI Center in Amsterdam, 14-18th September.

Content of this Press Release:

- 360° VR Audio Recorder
- One-Stop VR Audio
- A New Way to go from A to B
- Ambisonics Audio for VR
- Binaural 3D Stereo
- Standard Stereo
- 5.1ch Surround for Video
- Live Streaming 360
- Fits Anywhere. Captures Everything.
- 6-Axis Motion Sensor
- Upgrade Your Game Experience
- Output Volume Controls
- Headphone Jack

Overview

Facts

- Zoom announces H3-VR Virtual Reality Audio Recorder
- H3-VR features a 4-capsule Ambisonics microphone
- Onboard Encoder / Decoder
- Records 4 channel of audio that automatically converts to be compatible with 360-audio
- Onboard Ambisonics Playback feature

Product name

H3-VR

Brand

Zoom

Exclusive distribution

Sound Service GmbH

Website

www.sound-service.eu

www.zoom.co.jp

Price (MSRP)

369,- Euro incl. 19% VAT

Availability

October 2018

Media

Press download incl. images

<http://www.sound-service.eu/press-area/press-kits>

Products for review

Please use press contact below!

Press contact details

Sound Service GmbH

Martin Pohl

Phone: 033708 933-0

E-mail:

m.pohl@sound-service.eu

Company contact details

Sound Service GmbH

Am Spitzberg 3

15834 Rangsdorf

Phone: 033708 933-0

E-mail:

info@sound-service.eu

Web:

www.sound-service.eu

- Dynamic Display
- Transport Controls
- Power/Hold Button
- Precise Internal Clock
- Slate Tone/Sound Marker
- Built-in Limiter
- Low Cut Filter
- Input Volume Gain
- Power Options
- 3.5mm Line Out
- Lightweight/Portable Design
- Monitoring & Playback
- Streaming and More
- 360° Post-Production Made Easy
- What's Included
- Optional Accessories

Rangsdorf, 9th of July 2018 – Whether you're a game developer, filmmaker or musician, virtual reality is the undeniable future of content creation. While 360-video is exploding in popularity, the ability to easily create 360-audio has lagged behind....until now.

One-Stop VR Audio

The Zoom H3-VR virtual reality audio recorder is the complete solution for capturing and processing spatial audio for VR, AR and mixed-reality content. With a built-in Ambisonic mic, recorder and decoder, the H3-VR puts 360-audio in the palm of your hand.

A New Way to go from A to B

In the past, capturing VR audio required a dedicated Ambisonic mic, a separate recorder and a computer for encoding the audio from raw Ambisonics A format to VR-ready Ambisonics B format. Now, with the H3-VR, all of the encoding and decoding is done on board, saving time, money and effort at every step.

Ambisonics Audio for VR

The H3-VR's 4-capsule Ambisonic mic captures precise 360-degree VR audio recordings up to 24 bit/96 kHz. And without ever connecting to a computer, the onboard decoder allows you to export Ambisonics B-format files directly.

Binaural 3D Stereo

The H3-VR also records stereo binaural WAV files up to 24 bit/48 kHz. Stereo binaural provides a hyper-realistic spatial recording that enhances 2D productions with 3D audio.

Standard Stereo

The H3-VR even offers standard stereo recording for recordings that will be played out of speakers rather than headphones.

5.1ch Surround for Video

Free to download, Zoom Ambisonics Player software can easily convert Ambisonics audio to a 5.1ch surround file that is pre-aligned to the proper speakers, and is exported to your video or audio editor for syncing with standard video.

Live Streaming 360

The H3-VR also enables you to live stream events in 360 degrees so that wherever your fans are, they'll have access to the best seats in the house.

Fits Anywhere. Captures Everything.

The H3-VR's compact, conical design captures audio from multiple angles without getting in the way of the camera or the action.

6-Axis Motion Sensor

Auto Mic Position and Level Detection make placing the H3-VR simple. Whether positioned upright, upside down, endfire or endfire inverted, the H3-VR automatically calibrates so your audio and video are already aligned for post.

Upgrade Your Game Experience

The slam of dungeon doors, growl of monsters or howl of the wind can make or break a player's fantasy. With the ability to capture high-quality in-game audio, you can elevate your player's experience to new levels.

Output Volume Controls

The H3-VR's line out volume control lets you adjust the output volume to a DSLR camera, additional headphone, etc.

Headphone Jack

A dedicated headphone jack allows for stereo binaural monitoring of your audio while recording.

Dynamic Display

A directionally-responsive LCD screen provides a bright, clear display even when upside-down.

Transport Controls

The Home, Play/Pause, Forward, Reverse and Menu buttons are positioned for quick access.

Power/Hold Button

Lock your settings on the H3-VR while recording using the unit's Hold function.

Precise Internal Clock

The H3-VR's highly accurate internal clock with 0.5 ppm discrepancy reduces audio/visual drift.

Slate Tone/Sound Marker

Using the slate tone enables you to easily calibrate the H3-VR and camera audio levels. Use the sound marker to output a tone when recording starts to make syncing audio and video easy.

Built-in Limiter

The H3-VR features a built-in limiter to prevent clipping and distortion during your most dynamic moments.

Low Cut Filter

The H3-VR's adjustable low cut filter removes unwanted low-end frequencies.

Input Volume Gain

With the single-knob gain control, you can easily adjust the gains of all four mic capsules simultaneously for accurate, balanced 360-degree audio.

Power Options

Two AA batteries can power the H3-VR for over 11 hours. For longer shoots, the H3-VR can also use portable USB batteries or be plugged in via an AC adapter.

3.5mm Line Out

The H3-VR fits right in with your existing gear, featuring a dedicated line out for a wide range of 360 cameras or other external devices.

Lightweight/Portable Design

Weighing less 5 ounces (120g), the H3-VR is the perfect Ambisonics recorder to take on the go. And since H3-VR records directly to a microSD card, there's no need for external gear.

Monitoring & Playback

Monitor your audio live in stereo binaural or use the H3-VR's onboard Ambisonics Decoding to simulate your recorded 360-experience during playback.

Streaming and More

Perfect for live streaming, video conferencing, direct recording and more, the H3-VR's audio interface mode turns it into a USB 360 mic for your computer or stereo mic for your iOS device.

360° Post-Production Made Easy

The H3-VR's companion Zoom Ambisonics Player software takes the work out of post-production by easily converting your Ambisonics files to Stereo, Binaural, 5.1ch surround and more. Play, trim, re-orientate and export your audio files in minutes.

What's Included

- H3-VR Handy Recorder
- Foam windscreen
- Dual mounting bracket
- AA batteries

Optional Accessories



- BTA-1 Bluetooth Adapter
- WSU-1 Hairy Windscreen

(813 words / 4322 characters)

Specifications

Recording Media

- Cards compatible with microSD/microSDHC/microSDXC specifications (Class 4 or higher)

Recording formats

- Ambisonics A, Ambisonics B (FuMa/AmbiX): WAV 4ch poly (supports BWF and iXML): 44.1 kHz/16-bit, 44.1 kHz/24-bit, 48 kHz/16-bit, 48 kHz/24-bit, 96 kHz/16-bit, 96 kHz/24-bit
- Stereo: WAV stereo (supports BWF and iXML): 44.1 kHz/16-bit, 44.1 kHz/24-bit, 48kHz/16-bit, 48 kHz/24-bit, 96 kHz/16-bit, 96 kHz/24-bit
- Binaural: WAV stereo (supports BWF and iXML): 44.1 kHz/16-bit, 44.1 kHz/24-bit, 48kHz/16-bit, 48 kHz/24-bit

Display

- 1.25" monochrome LCD (96x64)

Motion sensor

- 6 axes (3-axis gyro, 3-axis acceleration)

Built-in Ambisonic mic

- 4 matched unidirectional condenser mics
- Maximum sound pressure input: 120 dB SPL
- Mic gain: +18 – +48 dB

LINE OUT

- Connector: 3.5 mm stereo mini
- Maximum output level: –10 dBu (1 kHz, 10 kΩ load)

PHONE OUT

- Connector: 3.5 mm stereo mini
- Maximum output level: 20 mW + 20 mW (into 32Ω load)

USB

- Connector: microUSB
- Mass storage operation
- USB 2.0 High Speed
- Audio interface operation
- 2 in/2 out (stereo/binaural input), USB 2.0 Full Speed
- 44.1 kHz/16-bit, 48 kHz/16-bit
- 4 in/2 out (Ambisonics A/FuMa/AmbiX input), USB 2.0 High Speed
- 44.1 kHz/24-bit, 48 kHz/24-bit

Power

- 2 AA batteries (alkaline, rechargeable NiMH or lithium)
- AC adapter (ZOOM AD-17): DC 5V/1A (supports USB bus power)

Estimated continuous recording time using batteries

- 48 kHz/24-bit, FuMa Rec Mode
- Alkaline batteries: about 11.5 hours
- NiMH batteries (1900 mAh): about 11.5 hours
- Lithium batteries: about 24 hours

External dimensions

- 76 mm (W) × 78 mm (D) × 123 mm (H)

Weight (main unit only)

- 120 g

About the Company Sound Service European Music Distribution

Founded in 1983, the Berlin based Sound Service European Music Distribution has been growing steadily from a one-product-distributor (MFB Fricke; the world's first digital drummachine) to one of the major independent german distribution companies for musical instruments recording studio equipment and PA, Lightning and DJ products. Today Sound Service is one of the leading distribution companies in Europe with exclusive distribution rights for a lot of the A-List MI-brands covering most of the countries in Europe.