Hear 360 and Zoom F8n Workflow (Ambisonic Audio)

- Records omni binaural, head-trackable audio for full immersion
- Works with any 8-Channel recorder
- Omnidirectional capsules
- 20HZ-20K frequency response
- Requires 48V phantom power

- 8-channel field audio recorder/mixer
- 8 discrete inputs
- Support for up to 24-bit/192 kHz recording, and 44.1 kHz, plus 47.952 kHz/48.048 kHz for HD video compatibility; 16-/24-bit resolution
- Dedicated gain control knob, 6-segment LED level meter, and PFL/Solo switch for each channel
- Dual SD/SDHC/SDXC card slots, up to 512 GB each
CONNECTING THE HEAR360 TO ZOOM F8N

1. Mount the Hear 360’s dedicated tripod mount into the tripod leg.

2. Connect the supplied 5-pin mini XLR Cables to the Hear 360 (located on the bottom of the enclosure)

   Note: Check the cable labels which corresponds to Hear 360 audio terminals.
3. Mount the Hear 360 in the tripod mount and Snap the magnetic door to close (Ensure to toggle the lock for the mic)

   **Note:** The capsule numbers 7 and 4 represent the front or “North” position of the mic. Align this with the north position of your camera rig.
4. Connect DC power for Zoom F8n (A)
5. Connect Hear360 via XLR cable to input terminals [1-8] check cable labels accordingly (B)
6. Turn ON Power (C)
7. Settings:
   - Press Menu (D)
   - Select Menu Items (E)
   - Select SD Card > Format > SD1 or SD2 > Yes
   - Select INPUT >
     - Input Source > Set ALL to MIC
     - Ambisonic Mode > Format > AmbiX+ Ambisonics A
     - Phantom > On/Off > Set ALL to ON
     - Voltage (For All Inputs) > +48V
     - Power Saving (For All Inputs) > Off
     - Trim Link > Set Group A (1-8)
   - Select REC >
     - REC to SD1 > Set to Track1-8 (Mono/StereoWAV)
     - Sample Rate > Set to 48kHz
     - WAV Bit Depth > Set to 24
8. Connect Headphones (F)
9. Activate Input Channels (G)
10. Adjust Audio Gain (H)
11. Adjust Monitoring Level (I)
12. Press Record (J) to start recording
13. Press Stop (K) to stop recording
14. Press Play (L) to playback recording

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ADOBE PREMIERE GUIDE FOR HEAR 360
AMBISONIC AUDIO FILES

1. Copy Audio Files to your computer

2. Open Adobe Premiere Pro CC 2018
3. Create a New Project
4. Create a New Sequence (VR Sequence)
5. Set Default Audio Track Multichannel to Adaptive  
Go to Preferences > Timeline > Default Audio Track > Multichannel > Adaptive
6. Import Audio file in Adobe Premiere Pro CC
7. Click the Button editor in Program monitor
8. Add the **Toggle VR Video Display** in Program Monitor (this shows a POV perspective of your 360 video that you can click and move around to look at the 360 footage)

![Button Editor in Adobe Premiere Pro](image)

9. Drag Ambisonic Audio clip and 360 video clips to timeline
10. Apply Binauralizer - Ambisonics effect on the Master track under **Audio Track Mixer**

![Audio Track Mixer](image)

- Use Pan for left to right orientation.
- Use Tilt for bottom to top orientation.
- Use Roll for counter-clockwise to clockwise rotation.

After you apply the effect, you can monitor the spatial nature of the media accurately using a pair of headphones. By default, your head position would directly face ahead within the audio sphere.

**Note:** Before exporting disable the Binauralizer - Ambisonics effect from the Master track in the Audio Track Mixer.
11. Export VR Sequence

Format: H.264
Preset: VR Monoscopic Ambisonic

Note: Check Video and Audio Settings
Video is VR
Audio is Ambisonics