SCENES™

SOUND PANO

16 - CHANNEL BINAURAL
VR AUDIO RECORDER
24 - BIT UNCOMPRESSED WAV FORMAT

USER GUIDE

The Best
VR Sound Recorder

(All in One)

CONTENT

1 OVERVIEW

Sound Pano All in One, is a cutting–edge VR audio recorder for VR shooting, which based on Double Quad Binaural recording theory that maintains dummy head struc–ture, lineament factors and bionic ears. It can be used for capturing the most vivid sound–field, which reproduces directions, distances and movements info in VR film. It considers integrated design which helps making VR movie easier.

Sound Pano All in One, comes with 16–omnidirectional–mic–matrix towards 8 direc–tions and each pointed at 45°from the adjacent one, and record 48khz/24bit lossless 360°audio. Also, it has a built–in standard gimbal for mainstream VR camera. 8 WAV (uncompressed file) including 16 sound tracks are output, also can be mixed in 1 AAC audio via Scenes Audio(A kind of proprietary algorithm for compression and decod–ing), those for reproducing REALISTIC and IMMERSIVE sound–field in VR watching.

Scenes provides an end–to–end solution for VR movie maker, including proprietary VR decoding algorithm and post–production software. If you want to learn more, visit our official web www.scenssound.com/en/ .

2 DIAGRAM

TOP PANEL

1. Power Button

2. Charge Jack

3. Battery Level LED

4. Gimbal and Camera

5. Micro SD Card Slot

6. Gain–

7. Gain+

8. Recording

9. Monitoring Port

10. Status LED

11. Real–time Monitoring

12. Auto Gain

13. Positive Direction Indicator

BOTTOM PANEL

1. Gimbal and Tripod
2. Charge Jack

FXLION
BP–100L

Recommended Lithium ion battery

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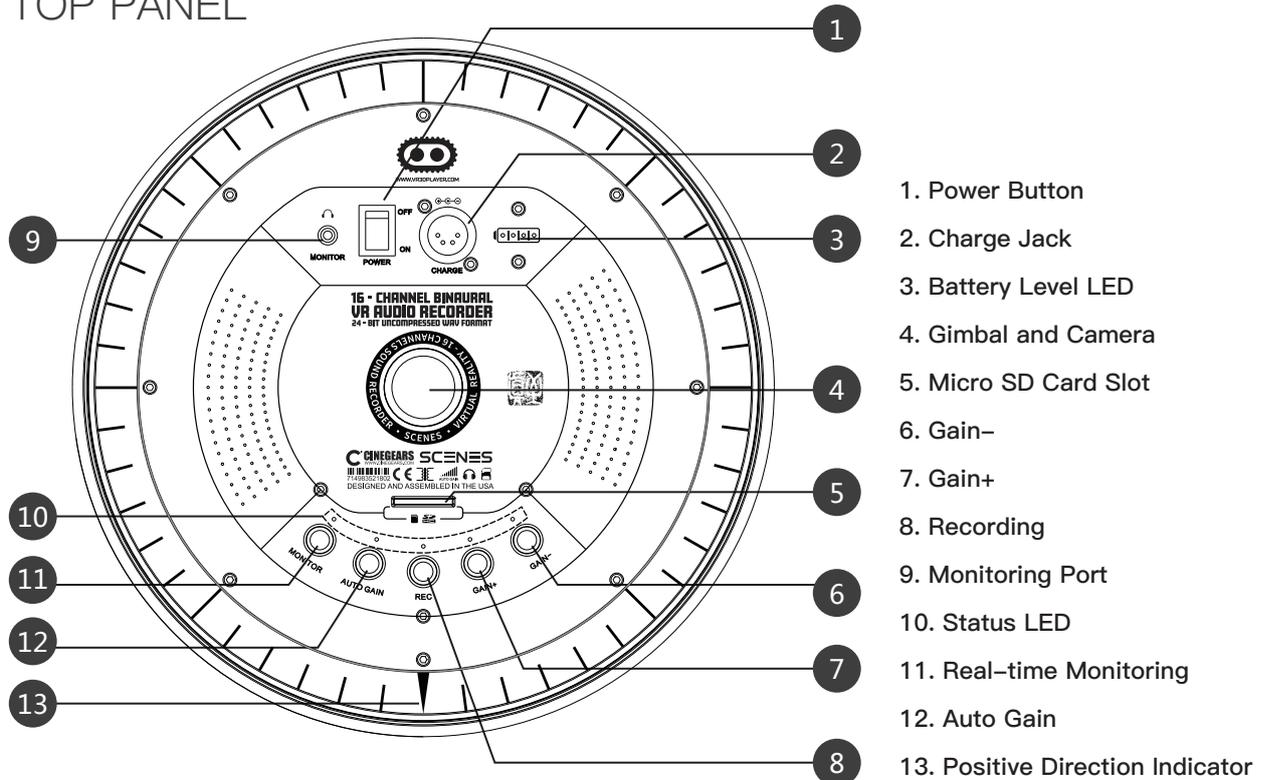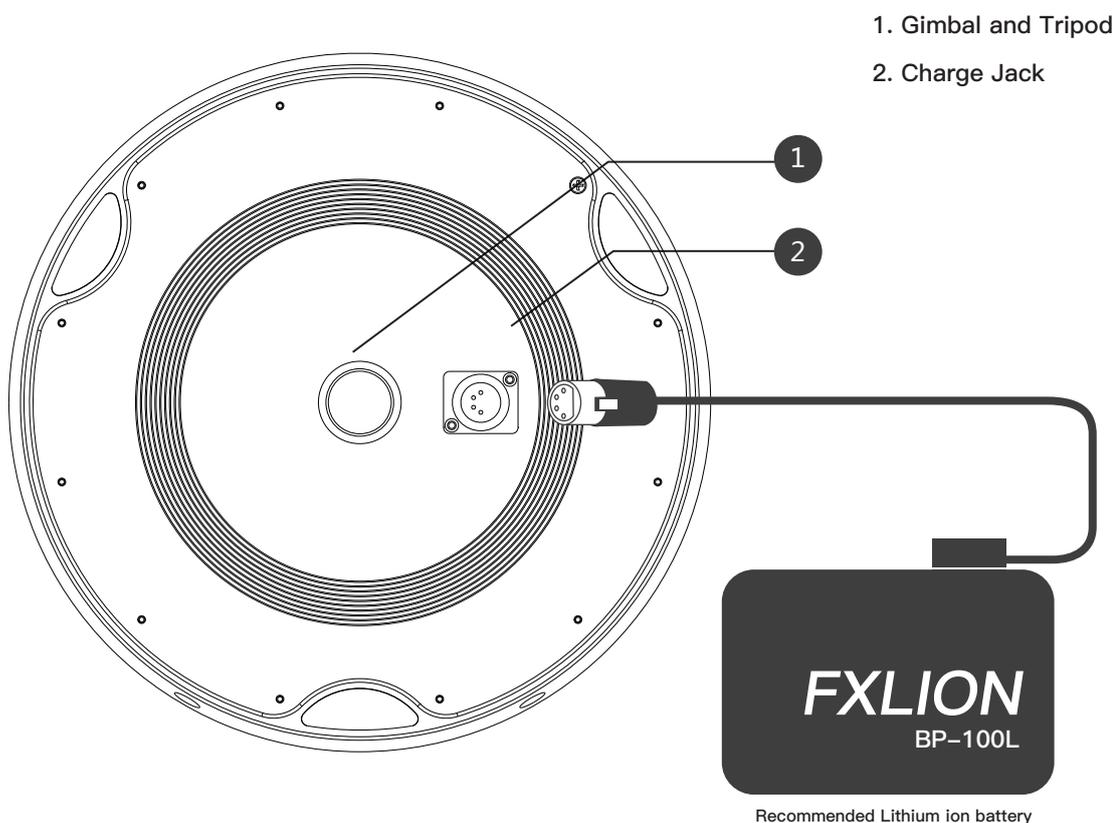
3 STATUS INDICATOR DESCRIPTION

1. Battery Status:
   When an external battery with full power connects with Sound Pano, the battery level LED will reveal as the right illustration shows. When only the last red one left, it means that almost run out, which will shut out 30 minutes at most. Please immediately change another battery before shut down.("G" means Green light, "R" means Red light)

   G   G   G   R

   battery level LED
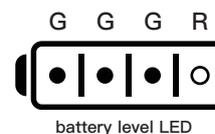
2. "MONITOR", "AUTO GAIN", "REC", "GAIN+","GAIN–", all have their own status LED. But "REC" LED turns RED when it works, the others' turn GREEN.

3. When you open Sound Pano, Battery LED will turn on first, and then please wait for the horse race lamp from "MONITOR" to "GAIN–". After the horse race lamp stops, you can press "REC" to start recording.

4. If you NOT insert Micro SD card (hot–plugging not supported) or storage before power–on, it can NOT work and "REC" status LED will NOT turn RED.

4 HOW TO USE
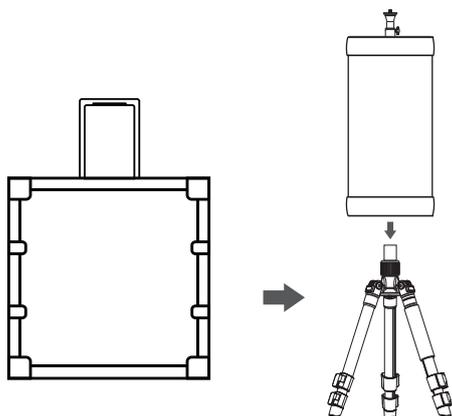
1. Open the case, take out the tripod. Make sure to set it up steadily. Then put Sound Pano on it carefully.
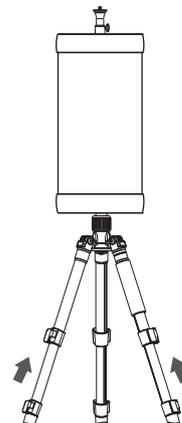
2. Settle the position and adjust the height before shooting.

❶ Set up VR camera

VR Camera
Standard Gimbal
Micro SD Card
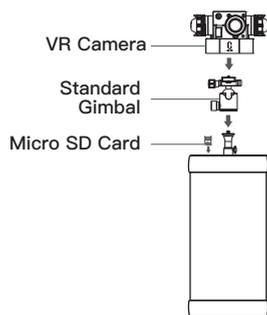
❷ Adjust VR camera.
If you want to choose one side to be the positive orientation, you can follow the positive mark
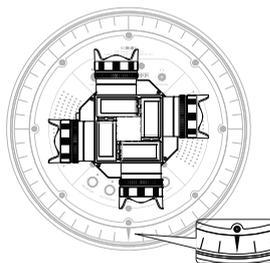
3. Set up your VR camera, put it on the Gimbal and make sure the positive orientation as same as where the pointer pined. And then insert the Micro SD card correctly into the slot.

4. Connect the external battery to the Sound Pano bottom 's 4–pin XLRF.Then Press power button, and wait Sound Pano to start up. The status LED of 5 main operational buttons will fast flash like horse race lamp. After the horse race lamp stops, Sound Pano is prepared to work.

CHARGE

Press power button

OFF
ON
POWER
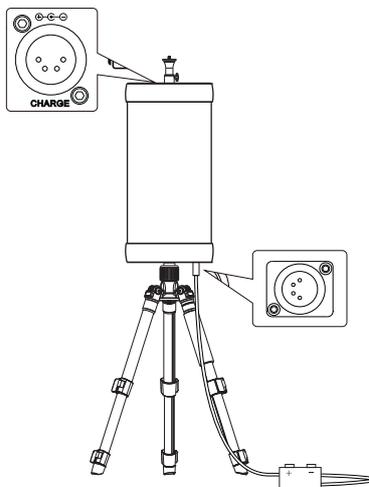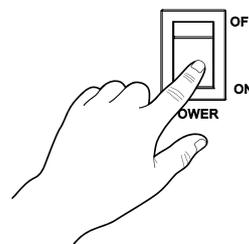
(Tips: There are two XLRs separately on the top and on the bottom for connection to external battery, but the XLR on the bottom is recommended to connect due to operational convenience.)

5   3D SOUND REAL-TIME MONITOR FUNCTION

❶ Built-in 3.5mm port for real-time monitoring

❷ Press monitor button

ATTENTION: Use it after the LED turns on
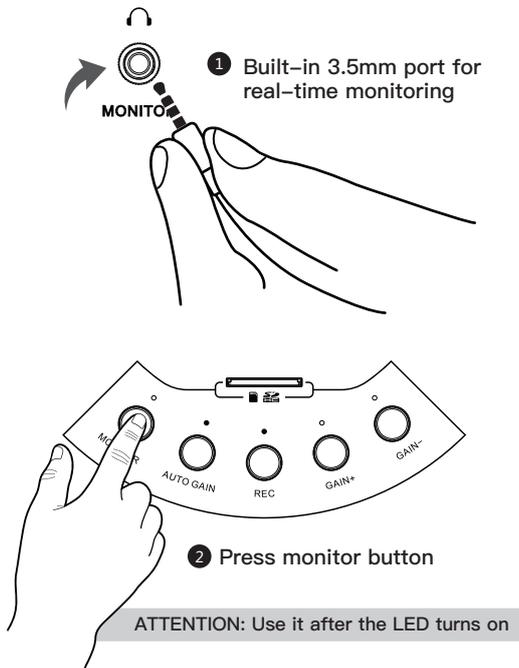
Insert your headphone into 3.5mm port, press "MONITOR" button. When it turns GREEN, you will monitor the 360° audio in real-time.

But what you're monitoring is based on the position of positive direction(0°direction). If you want change to monitor another direction, you need to manually short press from 1-8th direction successively. (one press for one direction)

When "AUTO GAIN" opens, "GAIN+" and "GAIN-" will NOT work, and the sound volume will change higher or lower automatically. When you press "GAIN+" or "GAIN-" manually,one short press for 1 level. There are 4 levels to turn louder or lower.

6   3D SOUND RECORD QUICK START

ATTENTION: Status LED turns on that means in recording status
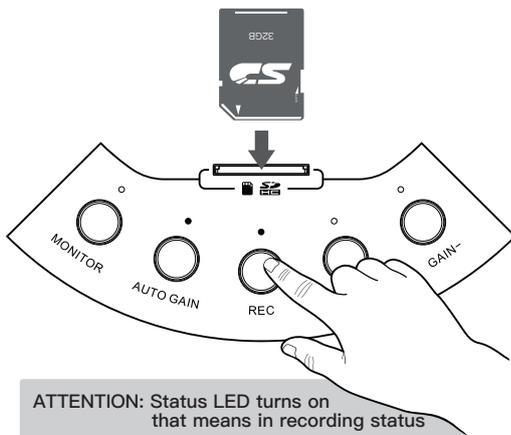
Before power-on, insert Micro SD card into the slot. Press "POWER" button, and then press "RECORD" button. When status LED turns RED, you can start to record. During recording, you can use "AUTO GAIN","GAIN+","GAIN-" as you want.

If Micro SD card NOT inserted or has NOT enough storage, "REC" status LED will shut off.

(**Notice**: When power turns on, do NOT insert or take out of the SD card.Otherwise, the data in the card may be lost.

Press and hold the "RECORD" button for at least 2 seconds (until RED light fast flashing to stop) to stop recording.There are 8 audio files in a new folder in your every time recording. They'll be named in 1-8 to help you distinguish each audio from different direction.

Tips:
Sound Pano comes with a maximum 32GB Micro SD card (hot-plugging not supported). A UHS-10 Micro SD card is recommended due to their fast read and write speeds allowing you to save high-fidelity 3D audio data.

7 MAINTENANCE AND REPAIR

1. If you want to clean it, please use soft and dry fabric to clean up.

2. Do NOT use it under the sunlight in long time, in rainy day or next to heat source.

3. Make sure you'll store it away from dust and water.

8 NOTICES

1. Avoiding from unsteady platform, please prevent Sound Pano from falling down or creeping down.

2. Avoid putting liquid materials on the Sound Pano.

3. Sound Pano comes with a maximum 32GB UHS–10 Micro SD card (hot–plugging not supported), which has approximately 4–hour storage.Please make sure you have enough storage before you record.

4. If "REC" status LED NOT turn RED, maybe it is not correctly inserted or has Not enough storage. When you want to insert or take out SD card, please make sure to shut down Sound Pano.

5. A new Sound Pano comes with a SD card which can NOT be replaceable.When power turns on, do NOT insert or take out of the SD card.Otherwise, the data in the card may be damaged or lost. SanDisk UHS–10 32GB Micro SD card is recommended.

6. There is no built–in battery in the Sound Pano, so an external battery is extra needed to connect with the Sound Pano, which can be used an external lithium ion battery (FXLION BP–100L recommended) with a XLRF to connect with.

⚠ Avoid unsteady platform to damage the product.

⚠ Please do NOT use it while charging, it will be damaged.
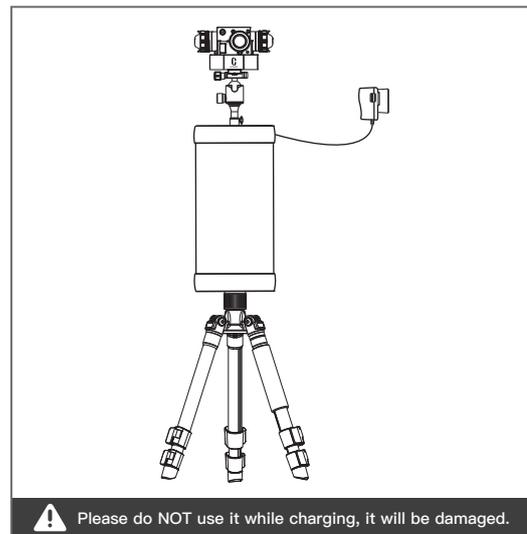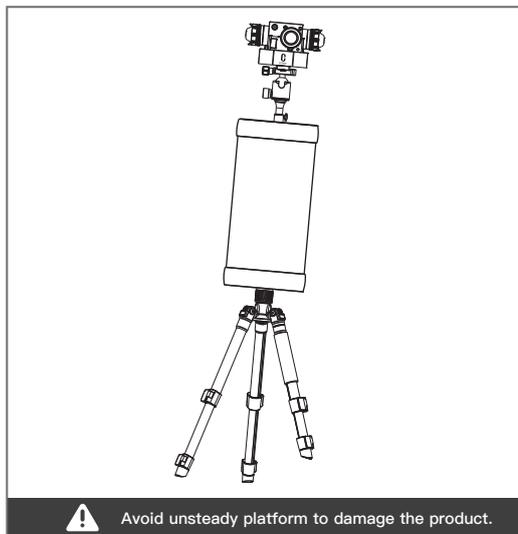
9 WHAT'S IN THE CASE
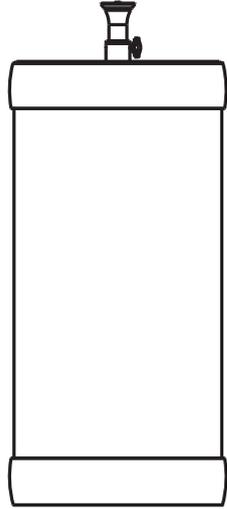
1✕
Scenes VR Sound Recorder

1✕
32GB UHS–10 Micro SD Card
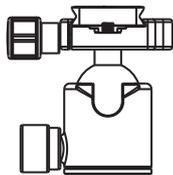
1✕
Standard Gimbal for VR camera

1✕
Tripod
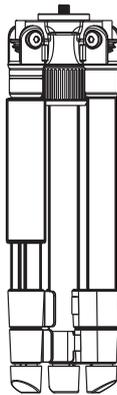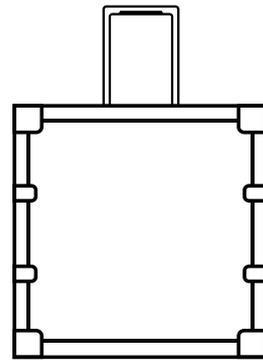
1✕
Dedicated Case

10 SPECIFICATIONS

Model No.	SC–800
Theory	Double Quad Binaural
Description	Maintain dummy head and lineament structure and bionic ears
Polar Pattern	Omnidirectional
Microphone Type	Electret condenser microphone
Frequency Range	20Hz–20kHz
Sesitivity	40dB ±2dB (0dB=1V/Pa,1KHZ)
S/N Ratio(1KHZ/Pa)	95dB
Total Harmonic Distortion(THD)	0.003%@1kHz,+4dBu
Output Impedance	100 Ω±30%
Power Supply (for full performance)	5V
Microphone Diameter	Ø6.0 mm
Temperature Range	–10℃ to 50 ℃
Dimensions	300mm*600mm (diameter*height)
Weight	4KG
Output Format	8WAV(uncompressed audio file) 1AAC audio via Scenes Audio
Supported SD Cards	UHS–10 Micro SD Card