

**PILOT ONE** Enhanced Edition

The Smart 8K 360° Camera  
– with an open system



# Overview

## True 8K Imaging Capability

Pilot One (EE) adopts 4 sets of Sony 1/2.3" 12MP sensors and ultra-high precision optical lenses, our initiated android-based Pilot OS and a set of AI algorithms. You can manually adjust EV, ISO, stitching distance, and other parameters freely, or utilize our HDR mode for better results easily.



## Waterproof IP65 Rating

Pilot One (EE) is built with an aluminum alloy shell for ultimate durability. Equipped with IP65 waterproof design, making it can easily withstand outdoor harsh environments.



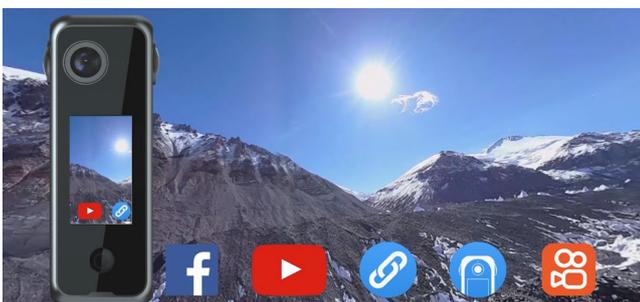
## PilotLive 8K

Pilot Series Cameras can stream up to 8K panoramic videos with a single click. Thanks to a revolutionized algorithm brought by Labpano, no cumbersome connect to the server and pay expensive cloud fees needed, with the Labpano PiPlayer, you can watch 8K Live in your computer or VR Headsets.



## Standalone 4K Live Streaming to Facebook/YouTube

With both wired ethernet and dual-band Wi-Fi connection, Pilot One (EE) allows anyone to stream 4K panoramic content to major social media platforms. Log into your account, one-click stream to Facebook/YouTube/other live platforms. Simultaneous live-streaming and recording are supported.



## Pilot Open System

Our custom Android operating system is used in Pilot One (EE). The Pilot Open System allows you to develop and customize a bunch of functions in the camera to fit in with your business needs. With more resources and business clients joining this open system, Pilot One (EE) is becoming a more efficient tool for all.



## PilotTour

Virtual tour creation has never been easier. Based on a powerful V-SLAM algorithm and multiple visual sensors, Pilot One (EE) can pinpoint indoor positions to a centimeter-level. Now get rid of the paid platforms and slow processing, use Pilot One (EE) to generate a well-organized virtual tour automatically and share it directly to your social media or embed it on your website instantly.



## Easy Street View Capture

Pilot One (EE) is the most efficient 8K 360° camera for Street View photography. With the support of an ultra-precision GPS, a powerful processor, and real-time stitching, it generates premium 8K images up to a speed of 7fps and allows you to directly upload from the camera, making it unsurpassed in terms of performance, ease-of-use, and portability.



## PilotSteady™ Stabilization

Pilot One (EE) is the world's first 360° camera that performs real-time stabilization while live streaming 360° VR. Patented PilotSteady™ stabilization with our intelligent shake compensation algorithm and a built-in 9-axis gyroscope achieve real-time correction and automatic compensation of video images.



## The "Pilot" Program

Pilot One (EE) is an evolving 360° camera. You will receive over-the-air software/firmware updates on a regular basis that ensures better performance and even new features now and then.



## External Heatsink

Connect the heatsink with the camera, preventing the camera from overheating during long time shooting. The record-breaking stream has been live for 800 hours and counting.



## Pocket Size

Pilot One (EE) weighs 395g and has a highly compact structure. As the tiniest professional 8K panoramic camera on the market, it fits in most backpacks and drones.



## PiPlayer & Pilot Go

**Pilot Go App:** Remote control camera settings and live video preview.  
**PiPlayer:** Play 8K 360° photos & videos in different perspectives.



## In the Box



Pilot One (EE)



Aluminum Heatsink



Protective Pouch



Adaptor



USB Type-C Cable



Extension Rod



User Guide



Wipe Cloth

## Tech Specs

### General

**Size**  
44mm \* 44mm \* 127mm

**Weight**  
395grams (13.93 ounces)

**Battery**  
Video recording: 2 hours (8K)  
Live streaming: Up to 2 hours  
Built-in 3400mAh battery

**Display**  
2.2-inch (diagonal) TFT-LCD  
Multi-Touch display  
Resolution: 640x360

**Lenses**  
4x F2.28 aspherical fisheye lenses

**Image Sensors**  
4 x 12MP Sony CMOS sensors

**Operating Ambient Temperature**  
0° to 45° C (32° to 113° F)

**Audio**  
Mono recording / AAC  
Support external Mic

**Motion Sensors/GPS**  
G-sensor, Gyro-sensor,  
Magnetic sensor,  
Built-in GPS

**Capacity**  
RAM: 6GB LPDDR4  
ROM: 128GB/512GB UFS

**Pilot Go APP**  
iOS/Android

### Video

**Resolution/Frame Rate**  
Real-time stitching  
8K (7680\*3840) 7fps  
6K (5760\*2880) 15fps  
4K (3840\*1920) 30fps  
2K (1920\*960) 30fps

**In-camera stitching**  
8K (7680\*3840) 24fps  
6K (5760\*2880) 30fps  
4K (3840\*1920) 30fps

**Format**  
MP4

**Coding Format**  
H.265 / H.264

### Algorithm

**Stitching**  
Real-time stitching  
Optical flow stitching

**Stabilization**  
PilotSteady™ technology  
Real-time stabilization

**Positioning**  
Precise indoor positioning  
and localization

### Photo

**Resolution**  
Real-time stitching  
8192 x 4096  
6144 x 3072  
4096 x 2048

**Format**  
JPG

**Modes**  
Timelapse/HDR/Countdown

**Photo-Manual Settings**  
Exposure Time: 1/3200 ~ 1/15  
ISO Range: 50 ~ 1600  
EV: -4 ~ 4  
WB: Auto, Manual

### Connection

**WiFi**  
802.11 a/b/g/n/ac.

**Bluetooth**  
V4.1

### Live Streaming

**Resolution/Frame Rate**  
8K@24fps\*  
4K@30fps

**Protocol**  
RTMP/SRT/RTSP

\* Simply install Labpano PiPlayer software on your computer and VR headset for in-camera 8K Live Streaming.

# Application Cases

## • Event Live-Streaming

Along with the application of 5G technology, live streaming is seeing new changes: more 360 live streaming and video content offer viewers a new choice and a better visual experience. Pilot Cameras and Labpano's panoramic live streaming technology have been widely used in many major projects, e.g., 2020 Re-measure Height of Mount Everest, Tianhe Space Station Launch, 2020 CCTV Five-a-side National Football League, and more.



\* Pilot One (EE) was used for 8K live streaming and recording of 2020 Tianhe Space Station Launch.



## • Media Report

360 videos and live streaming is gaining its reputation for bringing out the subjectivity of news report. As a solid case, Pilot Cameras are empowering reporters and the media industry to gain and distribute 360 content of premium quality easily and efficiently. Anyone can operate it simply like using a smartphone to capture and share key moments in a format that better serve the viewers.

\* Media is streaming and recording 2019 BRICS Future Internet Innovation Forum with Pilot Era.

## • Training Education

Labpano, together with our partners in various fields, shapes the future of training and education in schools, medical organizations, large group companies, and more. The immersive experience provides better training results and more equal education opportunities.

## • Medication VR

Labpano's technologies and products are applied in medical organizations to achieve better-quality and more cost-effective surgery training that covers a larger audience and helps operate remote surgery in a more concise and detailed manner.



\* Students at Tianfu No.7 Middle School, Chengdu, is streaming their class with children in remote mountains at Zhaojue Town, Sichuan.



\* Peking University Cancer Hospital is doing remote surgery training through 5G+VR, supported by Pilot Era.

- **VR Tour**

VR Tour is a transformational visual tool and a powerful boost for the real estate industry. It brings a direct, immersive, and realistic 360 view of every corner inside a house for potential buys and other clients to easily view on their smartphones or PCs. With Pilot Cameras, anyone can shoot a premium-quality and shareable VR tour with much less trouble and cost.



\* A 360 Tour of a villa at Phoenix City, LA, USA, shot with Pilot Era, by VR360 HOME TOURS.

- **Street View**

Street View is a virtual representation of our surroundings, consisting of millions of panoramic images. Street View is a great way for brands to distinguish themselves online while engaging with new people. Street view images have become an emerging data source for urban research.

Pilot Cameras are powerful devices for indoor visual SLAM (centimeter-level precision grade) and GPS-based outdoor mapping.



\* Map Your Town updates the Polokwane Street View with Pilot Era.

## Shenzhen Pisoftware Technology Co., Ltd.

Web: [www.labpano.com](http://www.labpano.com)

E-mail: [marketing@labpano.com](mailto:marketing@labpano.com)

Add: C11-B, TCL International E City, 1001 Zhongshanyuan Road, Nanshan District, Shenzhen City, 518057, P.R.China

