Unicornis360
Quick Start Guide

UNICORNIS

Magic does exist

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1. INTRODUCING UNICORNIS360

Unicornis360 is equipped with 4 professional fisheye lenses and a SONY STARVIS image sensor. Adopting intelligence dynamic stitching algorithm, to achieve internal live stitching for 4K@24fps panoramic videos. Unicornis360 allows direct video storage and outputting, supporting applications such as live preview and live streaming.

1.1 Unicornis360 Product Components
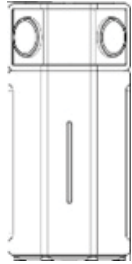
Panoramic
Camera X 1

Lens Cloth X 1

Quick Start
Guide X 1

Warranty Card
X 1
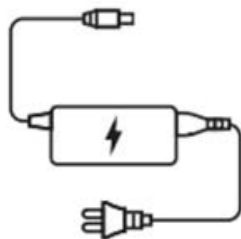
AC Adapter X 1

Tripod
Extension Pole
X 1

Remarks:
1. When opening the package, please check the above listed are all included. If any components are missing, please contact your retailer as soon as possible.
2. The Quick Start Guide is for Unicornis360 series.

1.2 Unicornis360 Features
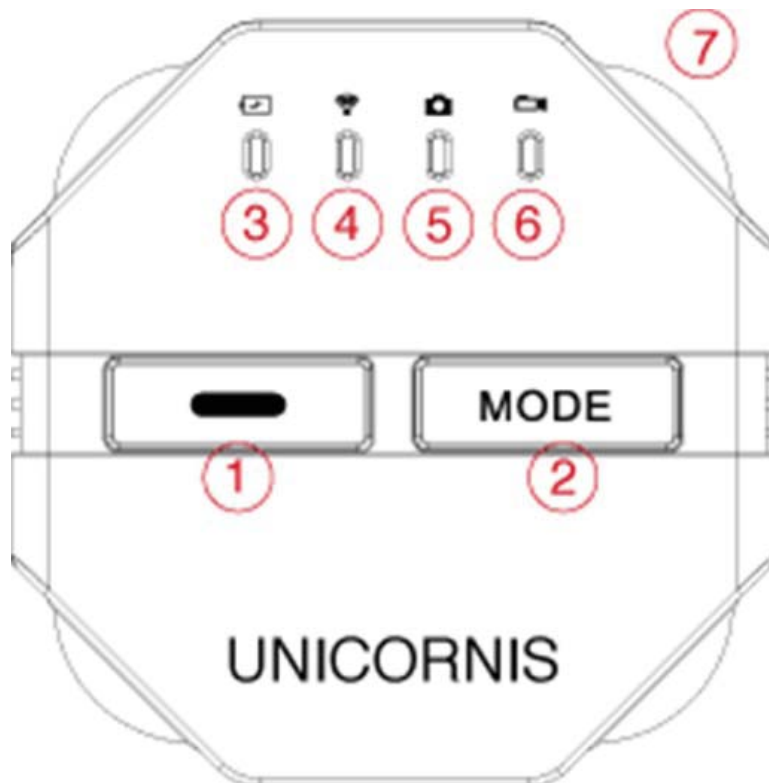
1. Shutter Button
2. Mode Button
3. Power LED
4. WIFI LED
5. Photo Mode LED
6. Video Mode LED
7. Lens
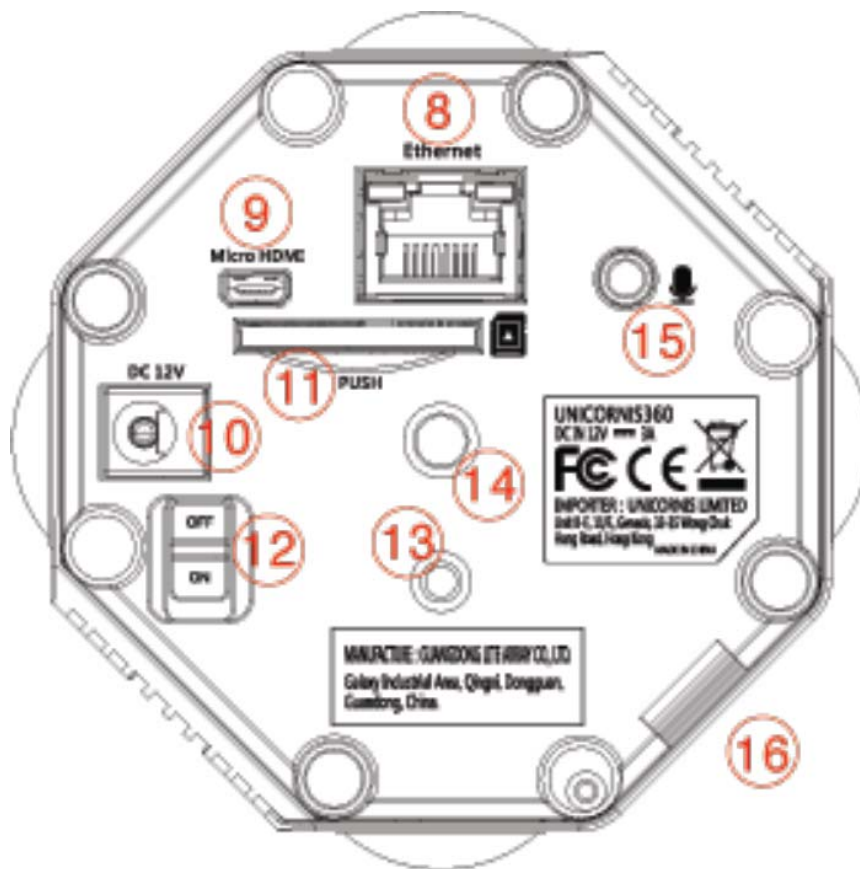
8.   Ethernet Port
9.   Micro HDMI Port
10. Power Port
11. SD Card Slot
12. Power Switch
13. Locator Hole
14. Tripod Socket
15. 3.5mm Audio Port
16. Battery Door

2. USING YOUR UNICORNIS360

2.1 Preparing your Unicornis360
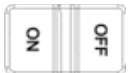
- Fully charge the battery. Connect the AC Adapter to the Power Port at the base of your Unicornis360. The battery needs approximately 4 hours to become fully charged, which allows video recording for up to 90 minutes, the Power LED will turn **GREEN** when charging is completed.
- Insert an SD card. Insert as indicated at the base of your Unicornis360. Unicornis360 is compatible with maximum 128GB SD memory cards. SD cards with a Class 10, UHS 3 (U3) speed rating are required. Unicornis360 recommends U3 SD cards from brands like SanDisk, Samsung, and Toshiba. To ensure normal functioning of the SD card, please make sure to format it using the Unicornis360 App before first use.

Remarks:
1. Please back up your SD card before formatting.
2. The Status LED on the side of your Unicornis360 turns **GREEN** with an SD card, and **RED** without.
3. The battery can be charged using the Battery Charger, which is sold separately.

2.2 Powering ON and OFF

- To power **ON**: Set the Power Switch to **ON** to turn on your Unicornis360. The Power LED will then flash in **RED**, **AMBER,** and **GREEN** in sequence. The Power LED will turn different colors indicating the battery level. (Please see the LED indications for details)
- To power **OFF**: Set the Power Switch to **OFF** to turn off your Unicornis 360.

Cautions: If the battery level of your Unicornis360 is too low after switching **ON**, the Power LED will flash **RED** for 2 seconds before powering off.

2.3 Taking Photos and Videos

- Photos: Change to Photo Mode. The LED will turn **BLUE** when your Unicornis360 is in Photo Mode. To capture a photo, press the Shutter Button. You can also launch the Unicornis360 App to do the capturing. The Photo Mode LED flashes in **RED** while capturing, turns back to solid **BLUE** after.
- Videos: Change to Video Mode. The LED will turn **BLUE** when your

Unicornis360 is in Video Mode. To record a video, press the Shutter Button. You can also launch the Unicornis360 App to do the recording. The Video Mode LED flashes **RED** while recording and turns back to solid **BLUE** after.

Remarks:

1. Press the Mode Button [MODE] on top of the Unicornis360 to switch between Photo Mode and Video Mode.
2. If an SD card is not inserted or detected, neither Shutter Button or Mode Button can function.

2.4 Using the Unicornis360 App

The Unicornis360 App lets you control your Unicornis360 on your mobile devices, allowing remote control like shooting and live preview.

Turn **ON** your Unicornis360. Use your mobile device to connect to the Unicornis360's WIFI network. The network name begins with "Unicornis360". Enter the preset password "12345678". Launch the Unicornis360 App on your device to control your Unicornis360.

Remarks:
1. The Unicornis360's WIFI is on when your Unicornis360 is **ON**. If the Unicornis360 is connected with devices, WIFI LED turns **BLUE** and **RED** without.
2. If Unicornis360 is connected to a mobile device, the Mode Button and Shutter Button cannot function. Capturing and recording can only be achieved through the App.
3. Download the Unicornis360 App to your mobile devices by searching "UNICORNIS LTD." in the Apple App Store.

2.5 Live Streaming

Unicornis360 supports the live streaming of panoramic videos.

SET UP:
1. Connect your Unicornis360 to the Internet using a network cable.
2. Launch the Unicornis360 App, select [Live Streaming Settings], input and save the upstreaming RTMP obtained from the live streaming platform.
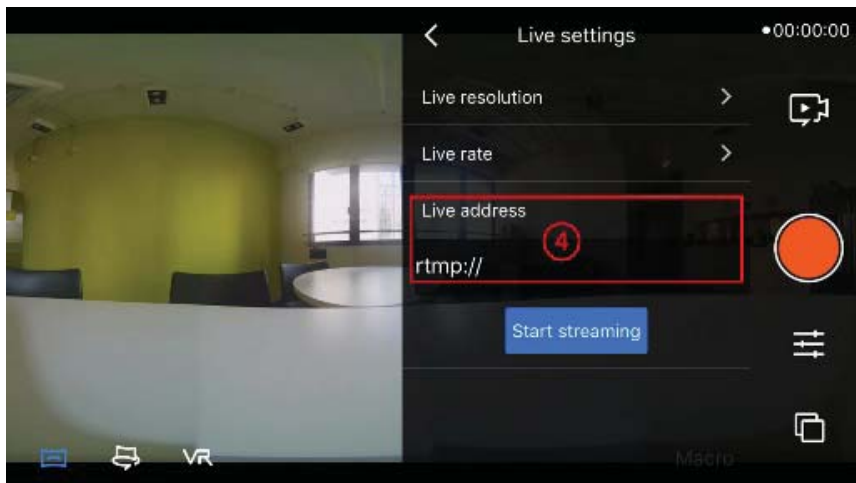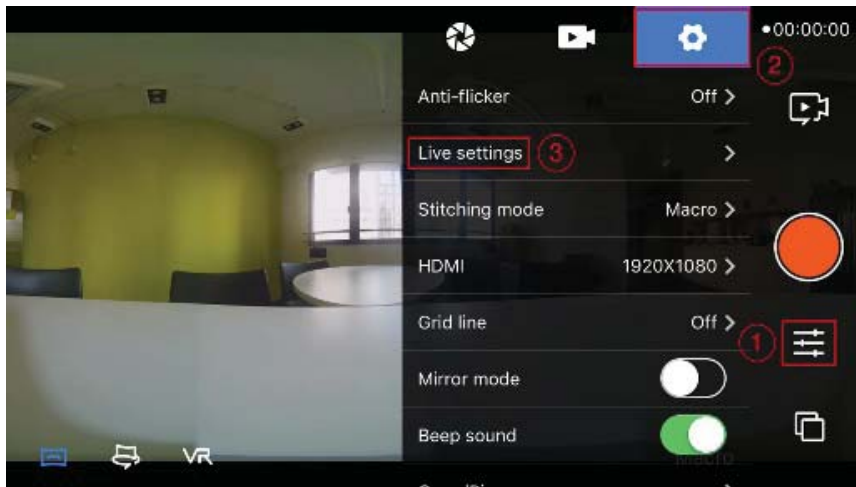
Remarks:
1. Before live streaming, please confirm the upstreaming RTMP with the live streaming platform.
2. For live streaming, a minimum of 4Mbps upstream bandwidth is required. The higher the bandwidth, the smoother the live streaming. Should you have any enquiries, contact our Technical Support.

3. Please choose the optimal live streaming bitrates and resolutions based on your Internet connection bandwidth. The larger the and resolutions, the higher the upstream bandwidth needed.

2.6 Firmware Updating

- Download the latest firmware: Download the latest firmware file from the official website or get it from a service representative.
- Update the firmware:

  1. Add a new folder named "firmware" to the SD card.
  2. Copy the latest firmware file into the "firmware" folder, insert the SD card into your Unicornis360 and restart it.
  3. During the updating process, your Unicornis360 will beep 4 times before restarting. After restarting, manually restart your Unicornis360 once to complete the firmware update process.

Remarks:
Please insert a battery with sufficient charge or connect your Unicornis360 to the power source while updating.

2.7 Resetting to factory defaults

There are two methods to reset all settings to the factory defaults.

Method 1: Using the Unicornis360 App to reset all settings, as shown in the photo below, selecting [Reset all settings].
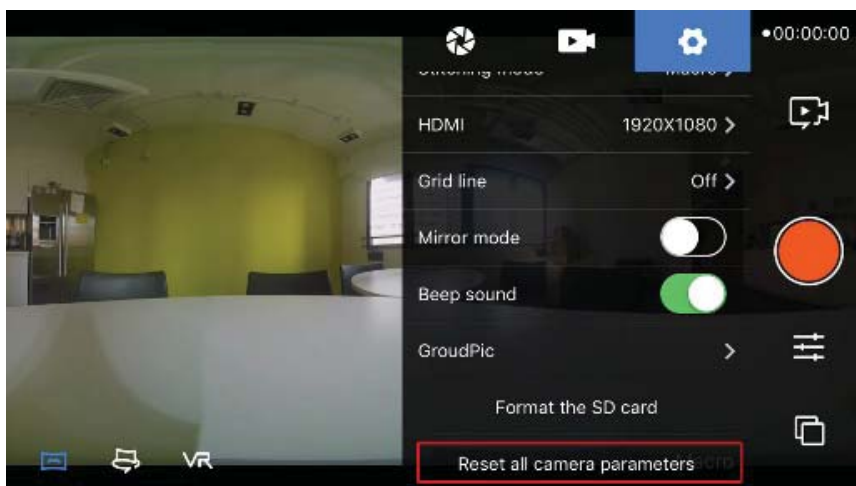
Method 2: Disconnect the WIFI connection between your Unicornis360 and your mobile device. Press and hold the Mode Button MODE to change to Photo Mode, then press and hold the Shutter Button and Mode Button at the same time for 5 seconds. Your Unicornis360 will start resetting and restart automatically. After restarting, the reset is done.

Remarks:
Before resetting your Unicornis360, please remove or back up the SD card to avoid data loss.

2.8 LED indications

Status LED (On the side of Unicornis 360)	Tri-colour LED (Red, Amber, Green)	Battery Level	
		0-10%, charging needed	Solid **RED**
		11-50%	Solid **AMBER**
		51-100%	Solid **GREEN**
		SD card abnormality	Flashing **RED** rapidly
Photo Mode LED	Bi-colour LED (Red, Blue)	In Photo Mode or capturing complete	Solid **BLUE**
		Photo capturing	Flashing **RED**
Video Mode LED	Bi-colour LED (Red, Blue)	In Video Mode or recording complete	Solid **BLUE**
		Video recording	Flashing **RED**
WIFI LED	Bi-colour LED (Red, Blue)	No device connected	Flashing **RED**
		With devices connected	Solid **BLUE**
Power LED	Bi-colour LED (Red, Green)	Charging	Solid **RED**
		Charging complete	Solid **GREEN**

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2.9 Specifications

Image sensor	SONY STARVIS image sensor
360° panoramic photo capturing	Real-time stitching, up to 3840*1920
360° panoramic video recording	Real-time stitching, up to 3840*1920@24fps
Live preview mode	1. Mobile App, real-time live preview 1920*1080@24fps 2. Micro HDMI, real-time live preview 3840*1920@24fps
Video Codec	H.264
Live streaming	Unicast Streaming, upstreaming via RTMP Streaming resolutions: 3840*1920@24fps and 1920*1080@24fps
Lens	4 * F2.0 fisheye lens
File format	Movies: MP4 Images: JPEG
Audio input	3.5mm audio jack
Storage	Single SD card (Maximum 128GB)
Interface	Micro HDMI Port RJ45 (Ethernet Port)
Power and battery life	1. Rechargeable Battery, 6600mAh (Battery Life Approx. 180mins) 2. 12V 3A AC adapter
Dimensions	80mm x 80mm x 160mm
Weight	750g

3. SERVICE & SUPPORT

Unicornis Limited provides lifelong and unlimited technical support to our customers. Should you need technical support when using the product, please contact us via the below channels:

Email: info@unicornis.io
Website: unicornis.io
Address: Unit B-E, 11/F, Genesis, 33-35 Wong Chuk Hang Road, Hong Kong

4. COMPLIANCE

Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV tech-
  nician for help.

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference,
and
(2) this device must accept any interference received,
including interference that may cause undesired
opera-tion.

RF Exposure Information (SAR)
This device meets the government's requirements for
exposure to radio waves. This device is designed and
manufactured not to exceed the emission limits for
exposure to radio frequency (RF) energy set by the
Federal Communications Commission of the U.S.
Government. The exposure standard employs a unit of
measurement known as the Specific Absorption Rate,
or SAR. The SAR limit set by the FCC is 1.6 W/kg.
Tests for SAR are conducted using standard operating
positions accepted by the FCC with the EUT
transmitting at the specified power level in different
channels.
The FCC has granted an Equipment Authorization for
this device with all reported SAR levels evaluated as in
compliance with the FCC RF exposure guidelines.
SAR information on this device is on file with the FCC
and can be found under the Display Grant section of
www.fcc.gov/eot/ea/fccid.
To ensure that RF exposure levels remain at or below
the tested levels, use a beltclip, holster, or similar
accessory that have no metallic component in the
assembly.