



# 360STA Rhardware Manual

# Disclaimer

Please read this statement carefully. Once you use 360STAR and its related accessories, it is considered that you fully recognize and accept this statement.

Before each use, please carefully inspect the camera and its related accessories. If any damage or deformation is found, do not use it and contact our after-sales service personnel in time. Using this camera means that you recognize and agree that you will bear all responsibilities for the actions and possible consequences of using this camera.

You promise to use this camera only for legitimate and legal purposes. You understand and agree that for any misuse, adverse effects, damages, injuries, penalties, or other legal consequences caused directly or indirectly by the use of this camera, Hangzhou Teche Technology Co., Ltd. (hereinafter referred to as "TECHE") will not assume any responsibility. Users should follow the precautions mentioned in this document, including but not limited to the usage notes mentioned herein.

Notice: This camera is not a professional waterproof camera. Under normal use, it is splash-resistant, water-resistant, and dust-resistant. Tested under controlled laboratory conditions, its performance meets the IP67 rating according to GB/T 4208-2017 (domestic) / IEC 60529 (overseas) standards. The splash resistance, water resistance, and dust resistance are not permanent and may decline due to everyday wear and tear. Do not charge the camera while it is damp; please refer to the user manual for instructions on cleaning and drying. Damage caused by liquid immersion is not covered under warranty.

Within the scope of national laws and regulations, the right to interpret and modify this commitment belongs to TECHE.

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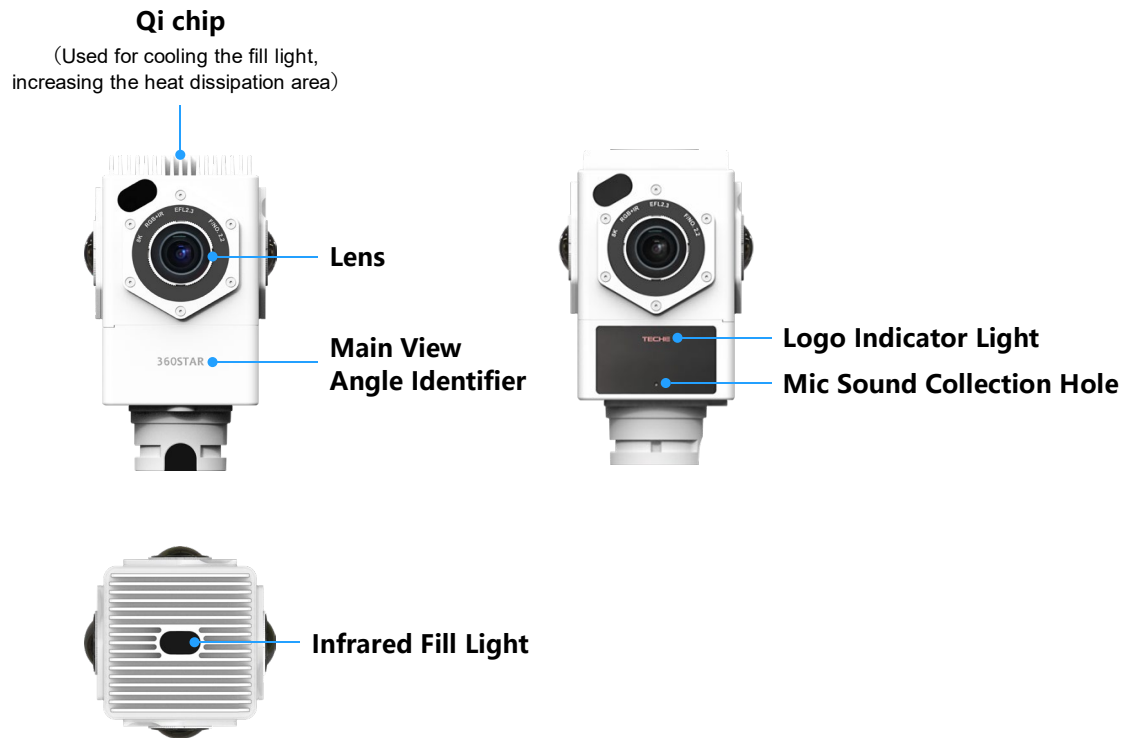
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# 1. Camera Parts Introduction



# 2. Camera Specifications and Parameters

Camera Model	EF2380
Camera Name	360STAR
Lens	4*F2.2 Fisheye Lens
Weight	Approximately 1 kg

Dimensions	125*75*75mm
Material	Aerospace-grade Aluminum Alloy
Protection Rating	IP67
Operating Temperature and Humidity	-20 - 45°C
sensor	1/1.8
exposure	Automatic/Manual
Focal Length	2.3mm
Field of View	190°
Wifi Standard	802.11ac
Frequency Range	5.765Ghz
Channel Bandwidth	40Mhz
Effective Transmission Distance	15m
Power Interface	DC
Power Supply Method	12.6V/4A POE+

Power Consumption	18W
Battery and Endurance	No Built-in Battery
Interface	Standard Power Interface / External MIC Interface / RJ45 1000M Ethernet Port
Storage Medium	TF Memory Card
Storage Space	32GB emmc
Built-in Mic	Two
Infrared Fill Light	Five
Low Light	Support
3D Noise Reduction	Support
Video Image Size	7680*3840
Bitstream Type	CBR
Main Bitstream Rate and Resolution	7680*3840
Sub-bitstream Rate and Resolution	1920*960
Video Compression Standard	H264/H265
Color Depth	8bit
Audio Compression Standards	AAC
Audio Compression Bitrate	320Kbps

Audio Sampling Rate	48k
Live Streaming Protocol	RTMP/RTSP/RTMPS/GB28181
Live Streaming Support	H265,H264 Encoding Maximum Bitrate Inside the Device 45Mbps 7680*3840@20FPS

### 3. Accessory Installation



English 1/4-20 Threaded Hole for Extension Pole  
Three-in-one Interface Cable  
(The tail cable is integrated with the camera and cannot be pulled out or subjected to tensile force)



Secure the camera to the mounting bracket and the anti-fall wire rope fixing accessory part.

### 4. Using the Camera

#### 4.1. Camera Interface Introduction

(1) External MIC Interface: The camera interface end can be connected to a 3.5mm interface, and the wiring can be selected and used as needed, with the other end connected to mobile devices, speakers, MIC devices, etc.

This interface is only used when connecting an external Mic, do not turn it on when not in use; if you need to connect an external audio cable, please strictly follow the instructions and identification marks for

operation (the connection device is shown in the figure below).



(2) Power Cable Interface: It is an external power supply interface, equipped with a standard power charger (please do not use other charging devices to power the camera).

(3) Ethernet Port: Used to provide network access to the camera, simply insert the standard blue Ethernet cable.



**External (Mic) Port    Ethernet Port    Power Cable Interface**

#### **4.2. Turning On or Off the Camera**

The camera does not have a built-in battery or a power button. It needs to be connected to a power supply through the power cable, and the camera will automatically power on and off. Power-on operation: Connect to the power supply, and a solid green light indicates normal startup. Power-off operation: Turn off the power supply, and the indicator light will automatically go out, which is the power-off state.

Camera indicator light guide: A green light indicates an idle state, and a



blue light indicates a working state.

### 4.3. Camera Main View Angle

It is the first display angle in the panoramic view, marked with the 360STAR logo on the camera body.



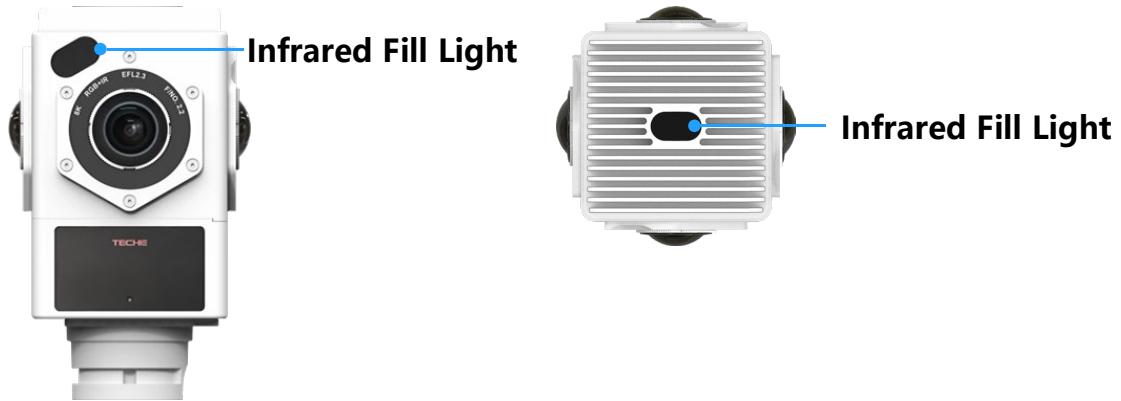
### 4.4. Camera Operation

(1) Live Streaming Mode: The camera switches to the push-stream mode for live streaming. For specific usage methods, please refer to the TECHE Center user guide.

(2) Stop Live Streaming: Press the capture button to stop the push stream, or you can achieve this through the built-in software program.

### 4.5. Infrared Fill Light

(1) The camera supports infrared illumination, and when it's dark, the infrared fill light automatically activates, enabling 24-hour monitoring day and night.



#### 4.6. Camera Wi-Fi Setup

- (1) Turn on the mobile phone or PC network and search for the network named "360star".
- (2) Enter the network password, which is "teche720".
- (3) Once the AP is set up successfully, you can connect to the camera.



#### **4.7. Matching Software and Camera Connection**

The camera is connected to the network via an Ethernet port or Wi-Fi, ensuring that the camera is on the same network as the mobile phone or PC. Open the software, and the camera will be automatically detected on the software. Click to connect to successfully link the camera with the APP or PC program. Use the software to control the camera for shooting, recording, live streaming, and parameter settings, as well as panoramic material stitching, etc. For detailed software usage, refer to the software manual.

#### **FCC STATEMENT**

1. 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 operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's 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 technician for help.

### **FCC Radiation Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled

environment. This equipment should be installed and operated with minimum distance 20cm

between the radiator & your body

### **Contact Information**

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