

# Instructions for 360Rize 360Penguin 360° Panoramic Camera



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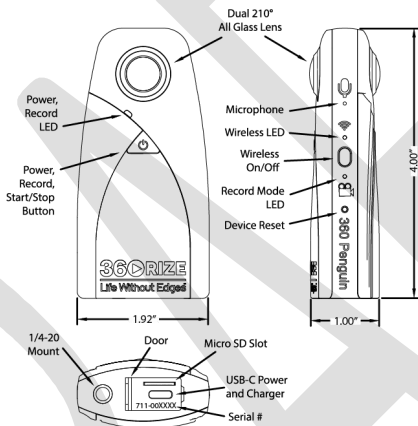
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## 2 CAMERA SPECIFICATIONS

|                    |                                                                                                                           |
|--------------------|---------------------------------------------------------------------------------------------------------------------------|
| System             | ThreadX                                                                                                                   |
| Angle of View      | Two fisheye lenses, full spherical 360° by 180° using two 210° fisheye lens with stitching on board.                      |
| Lens Specification | Lens TTL = 9.98 mm<br>Focal Length = 1.05 mm<br>Aperture = F 1.8                                                          |
| Lens Image Circle  | 180 = 3.22 mm, 200 = 3.33 mm, 210 = 3.51 mm                                                                               |
| Video Resolution   | Up to 6K (5760 x 2880) @ 12 FPS<br>4K (4096 x 2048) @ 30 FPS<br>2.7K (2880 x 1440) @ 30 FPS<br>960P (1920 x 960) @ 30 FPS |
| Photo Resolution   | 24M (6912 x 3456), 18M (6112 x 3056), 16M (5760 x 2880), 12M (4896 x 2448), 8M (4000 x 2000) 4M (2880 x 1440)             |
| App                | 360Penguin (Android & IOS)                                                                                                |
| APP preview mode   | 360° Spherical mode, Google Cardboard mode, Little Planet, Mirror Ball, Gyro Mode                                         |
| Storage mode       | Micro SD up to 64 GB Card                                                                                                 |
| Support to share   | WeChat, Facebook, YouTube, Instagram, Twitter, local share                                                                |
| Connection         | USB Type C                                                                                                                |
| Battery            | Built in lithium-ion battery 1000 mah                                                                                     |
| Power Consumption  | 4K @ 30FPS on WIFI 50 mins<br>Or constant power via USB-C                                                                 |
| Product Dimensions | 101mm x 49mm x 26mm<br>4 inch x 1.92 inch x 1 inch                                                                        |

### 3 PRODUCT LAYOUT DETAILS

Layout of product buttons and LED lights.



#### TECH SPECS



##### VIDEO

Up to 6K @ 12 fps  
4K @ 30 fps  
MP4 (H.264)



##### LIVE STREAM

Directly to Facebook  
and Youtube via Wi-Fi  
and LTE networks



##### PHOTO

Up to 24M (6912 X 3456)  
JPEG



##### BATTERY

Up to 50 mins on WiFi at 4K  
Built-in Lithium-ion 1000 mAh



##### MICRO SD

8GB - 64GB  
Class 10 or faster



##### LENS

Aperture: F 1.8  
Focal Length = 1.05 mm  
Viewing Angle 210° x 2



##### SYSTEM REQ

MAC, Microsoft Windows  
XP / Vista / 7 / 8 / 10



##### COMPATIBILITY

Android 4.4 and up  
IOS 8.0 and up

## 4 IN THE BOX



### IN THE BOX



360° CAMERA



TRIPOD



USB-C CABLE



MICRO-FIBER BAG



USER GUIDE



WARRANTY CARD

## 5 BUTTON FUNCTIONS

There are only 2 buttons to understand on the camera.

### 5.1 POWER BUTTON

|               |                                                                                                                                                |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Power On/Off: | Press the button for 3 seconds to turn on/off                                                                                                  |
| Restart:      | Press the button for 10 seconds                                                                                                                |
| Switch Mode:  | Double click the button quickly to switch to photo mode or video mode. Side light color determines mode.                                       |
| Take Photo:   | When the Record Mode LED is not lit, then photo mode is active. Press the button to take a photo. Photo setting is saved from the APP setting. |
| Record Video: | When the Record Mode LED is lit, the video mode is active. Press the button                                                                    |

to start video. Record Mode LED flashes when taking video. Press again to stop video.

**Note:** In preparation for taking pictures and video you must have the micro SD card installed.

## 5.2 WIFI WIRELESS ON/OFF BUTTON

**Open Wi-Fi:** Click the Wi-Fi button and Wi-Fi will open. It will automatically select a better signal channel. The process will take about 6-8 seconds. When Wi-Fi opens, you can search for the Wi-Fi signal on the phone's Wi-Fi list. The SSID is 360Rize\_Penguin\_xxx-xxxx. The password is 360chillin.

**Close Wi-Fi:** When Wi-Fi opens, you can click this same button to close Wi-Fi. When Wi-Fi is opening, this operation is invalid.

**Note:** *After Wi-Fi is enabled, only one handset can connect to ensure preview flow.*

## 6 FUNCTION OF THE LED LIGHTS

The indicator light of the battery is made up of red, blue, and green lights.

### 6.1 CHARGING WITH POWER OFF

|                              |                       |
|------------------------------|-----------------------|
| The green light steady       | more than 95% charge. |
| The green light flashes fast | 75% - 95% charge.     |

|                             |                   |
|-----------------------------|-------------------|
| The blue light flashes fast | 25% - 75% charge. |
| The red-light flashes fast  | 0 – 25% charge.   |

## 6.2 CHARGING WITH POWER ON

|                              |                       |
|------------------------------|-----------------------|
| The green light steady       | more than 95% charge. |
| The green light flashes slow | 75% - 95% charge.     |
| The blue light flashes slow  | 25% - 75% charge.     |
| The red-light flashes slow   | 0 – 25% charge.       |

## 6.3 POWER ON WITHOUT CHARGING

|                        |                    |
|------------------------|--------------------|
| The green light steady | 75% - 100% charge. |
| The blue light steady  | 25% - 75% charge.  |
| The red-light steady   | 0 – 25% charge.    |

## 6.4 WIFI INDICATOR IS A SINGLE BLUE LIGHT

|                       |                              |
|-----------------------|------------------------------|
| The blue light blinks | Wi-Fi is turned on.          |
| The blue light steady | Phone is connected to Wi-Fi. |
| The blue light is off | Wi-Fi is off.                |

**Note:** After Wi-Fi is enabled, only one handset can connect to ensure preview flow.

## 6.5 WORK LIGHT IS A SINGLE ICE-BLUE LIGHT

|                            |                            |
|----------------------------|----------------------------|
| The ice-blue light flashes | Camera is recording video. |
| The ice-blue light is off. | Camera is in photo mode.   |
| The ice-blue light is on.  | Camera is in Video mode.   |

# 7 APP – DOWNLOADING APP

360Penguin Site



Google Play Store



IOS App Store



**Figure 1**



**Figure 2**



**Figure 3**



Figure 1: Main Startup – Allows the user to access Settings, Edit Files, and connect the Camera.

Figure 2: Video Record Screen – Allows the user to record video and toggle multiple camera views.

Figure 3: File Manager for Camera SD and Phone – Allows the user to manage both camera and mobile files.

**Figure 4**



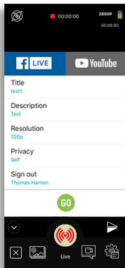
**Figure 5**



Figure 4: Main Startup -Allows the user to access Settings, Edit Files, and connect the camera.

Figure 5: Video – 360 Video, 360 Photo, 360 Time Lapse, 360 Live Streaming, Social Media, and SD Card Settings are all available settings.

**Figure 6**



**Figure 7**



**Figure 8**



Figure 6: 360 Screen – Allows the user to Livestream with a simple push of the “GO” button. Allows a direct login into Facebook or YouTube.

Figure 7: Live Streaming Facebook – Allows the user to Live Stream to Facebook.

Figure 8: Live Streaming YouTube – Allows the user to Live Stream to YouTube.

## 11 APP – 360 FILES ON MOBILE

Figure 9



Figure 10



Figure 9: Mobile Device Files – Group File Management of Mobile Files.

Figure 10: Main Startup – Allows the user to access Settings, Edit Files, and connect the camera.

## 12 APP – 360 FILES ON CAMERA

**Figure 11**



**Figure 12**



Figure 11: Camera Files located on Micro SD Card – Group File Management of Camera Files.

Figure 12: Main Startup – Allows the user to access Settings, Edit Files, and connect the camera.

## 13 MOUNTING OPTIONS

Figure 1



Figure 2



Figure 1: Camera mounted on included tripod.

Figure 2: Camera mounted on optional adapter, to allow for constant power via USB-C cable.

## 14 COMMON PROBLEMS

1. Image delay/block?
2. Display abnormal image after change to 2176X1088 resolution?
3. Why is the image shared out a dual spherical photo?
4. Share black screen when viewing the link on the PC?
5. Why is the image shared on YouTube not clear?

## 15 FCC CERTIFICATION

### FCC STATEMENT :

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.

**Warning:** 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.

This device comply with FCC SAR requirements.

The highest reported 1g-SAR for body is 0.668 W/Kg