Instructions for 360Rize
360Penguin 360° Panoramic Camera

1 CONTENTS

2 Camera Specifications 3
3 Product Layout Details..... 4
4 In The Box 5
5 Button Functions 6
5.1 Power Button 6
5.2 WiFI Wireless On/Off Button 7
5.3 WiFI Wireless On/Off Button 7
6 Function Of The LED Lights 7
6.1 Charging With Power Off 8
6.2 Charging With Power On 8
6.3 Power On Without Charging..... 8
6.4 WiFi Indicator..... 8
6.5 Work Light Indicator 8
7 App – Downloading App 9
8 App – Main Screens 10
9 App – Camera Settings 11
10 App – How To Social Share 12
11 App – 360 Files On Mobile..... 13
12 App – 360 Files On Camera..... 14
13 Mounting Options 15
14 Safety/Certifications 16

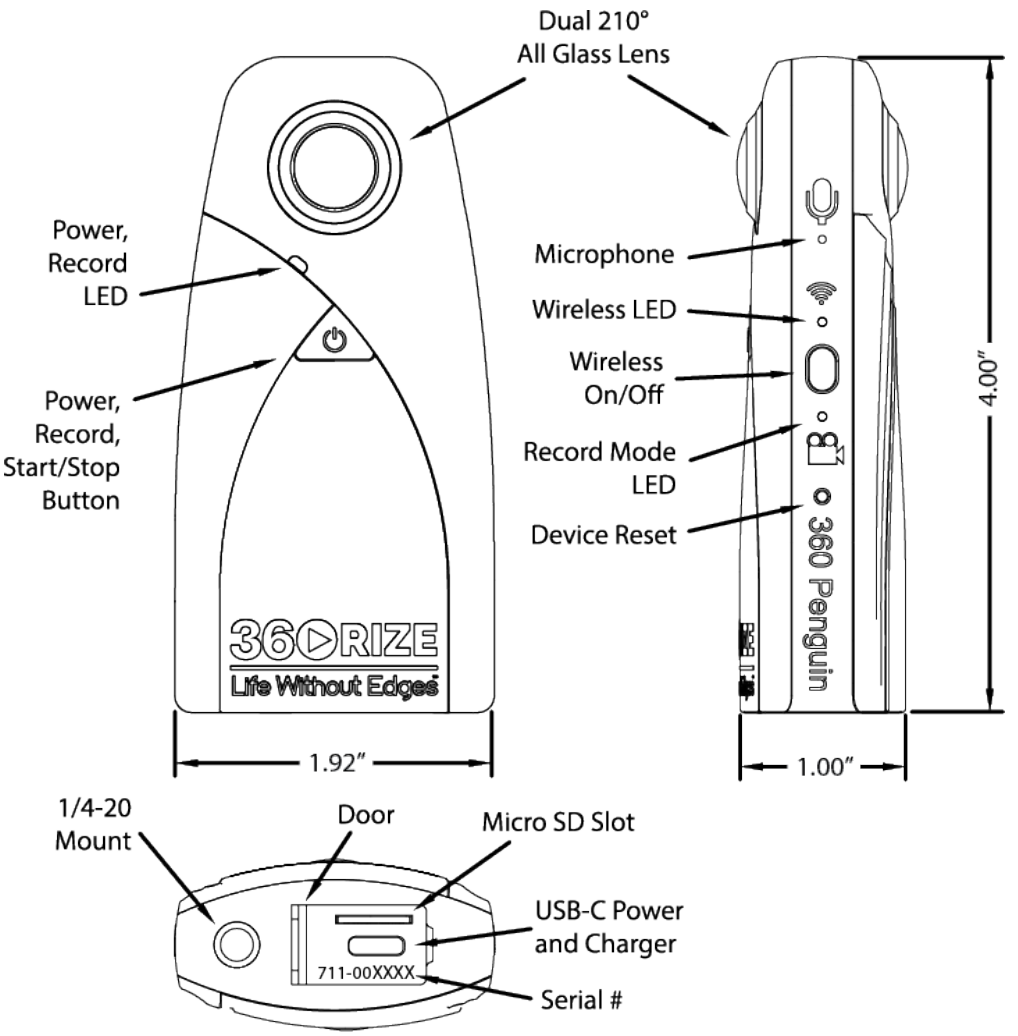
2 CAMERA SPECIFICATIONS

System	ThreadX
Angle of View	Full spherical 360° by 180° using two 210° fisheye lenses with stitching on board.
Lens Specification	Lens TTL = 9.98 mm Focal Length = 1.05 mm 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 4K (3840 x 1920) @ 30 FPS 2.7K (2880 x 1440) @ 30 FPS 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 or constant power via USB-C

Product Dimensions	101mm x 49mm x 26mm 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-ion1000 mAh

MICRO SD
8GB - 64GB
Class 10 or faster

LENS
Aperature: 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
- FLEXIBLE TRIPOD
- USB-C CABLE
- MICRO-FIBER BAG
- USER GUIDE
- WARRANTY CARD

5 BUTTON FUNCTIONS

There are only 3 buttons to understand on the camera.

5.1 POWER BUTTON

Power On:	Hold power button for 3 seconds. Camera beeps twice and the LED light on the front comes on. The color of the light will be green when it is first powered up, then it will turn to the color that represents the battery life.
Power Off:	Hold power button for 3 seconds. Camera beeps twice and the LED light on the front turns off.
Power Off (Idle):	Camera Powers off after being idle for 5 minutes. The LED light on the front flashes twice then turns off. Camera beeps twice.
Photo Mode:	The side LED light will be off. Press the button once to take the photo. The camera will beep once. The side light flashes twice green.
Video Mode:	The side LED light will be on steady and green. Press the button once to start the video. The camera will beep once indicating the start of the video. The side LED light will flash until the video is stopped. Press the button once to stop the video. The camera will beep once indicating the end of the video.

Switch Camera Mode:	Press the power button twice, the camera beeps twice. The side LED indicates the camera mode.
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.*

5.3 WIFI WIRELESS ON/OFF BUTTON

Reset Button:	Press the reset button for 10 seconds

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 red light is on	Camera is charging
The red light is off	Camera is fully charged
6.2 CHARGING WITH POWER ON	
The red light is on	Camera is charging
The green light is on	Camera is fully charged
6.3 POWER ON WITHOUT CHARGING	
The green light on	75% - 100% charge
The blue light on	25% - 75% charge
The red-light is on	0 – 25% charge
6.4 WIFI INDICATOR	
The blue light blinks	Wi-Fi is turned on
The blue light is 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 INDICATOR	
The work light is steady green	Camera is in Video mode
The work light is flashing green.	Camera is recording video
The work light is off	Camera is in Photo mode
The work light flashes green twice	Camera is taking picture
The work light is steady blue	Camera is in live streaming mode
The work light flashes green and blue	Camera is actively live streaming

7 APP – DOWNLOADING APP

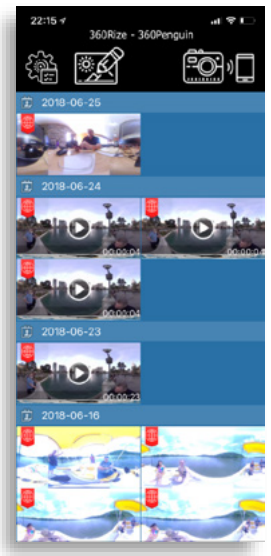
360Penguin Site

Google Play Store

IOS App Store

8 APP – MAIN SCREENS

Figure 1 **Figure 2** **Figure 3**



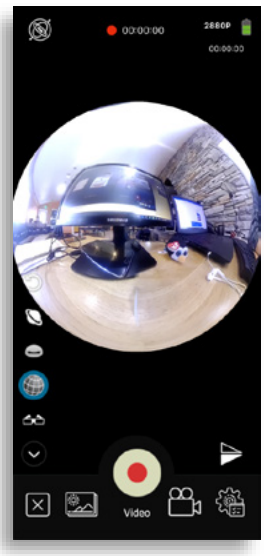


Figure 1: Main Startup – Allows the user to access Settings, Edit Files, and connect the Camera.

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.

9 APP – CAMERA SETTINGS

Figure 4

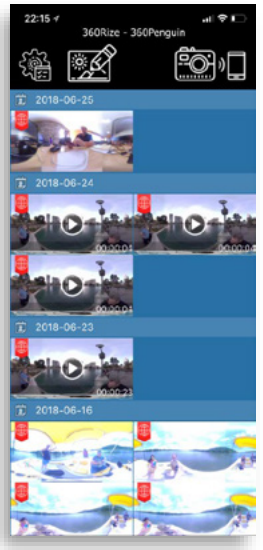


Figure 5

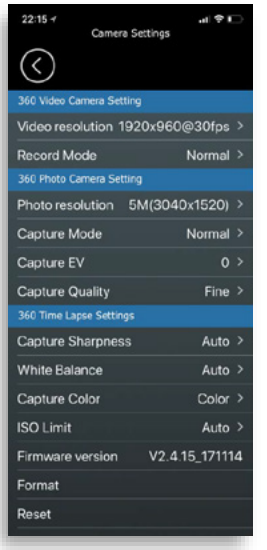


Figure 4: Main Startup -Allows the user to access Settings, Edit Files, and connect the camera.

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

10 APP – HOW TO SOCIAL SHARE

Figure 6

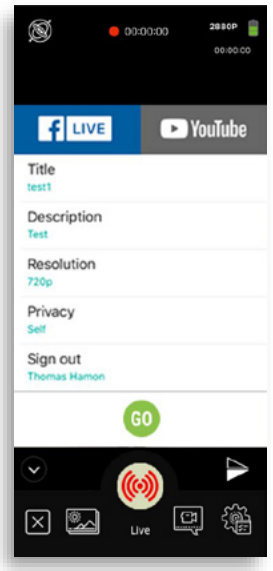


Figure 7

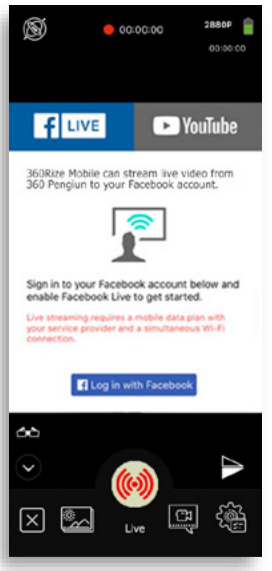


Figure 8

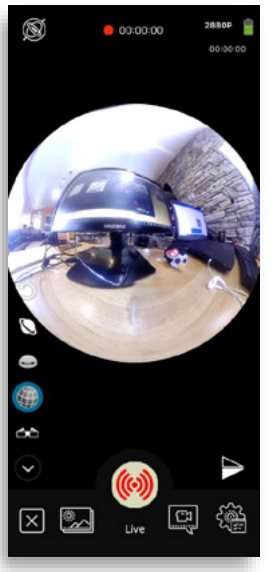


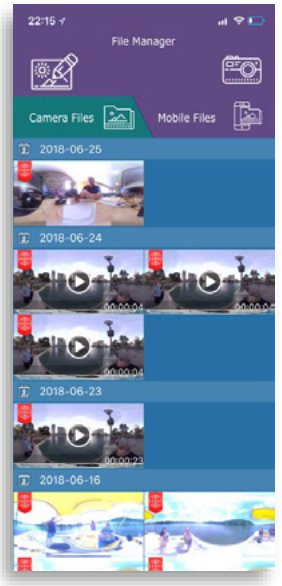
Figure 6: 360 Screen – Allows the user to Livestream with a simple push of the “GO” button. Allows a direct login into Facebook or YouTube.

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**



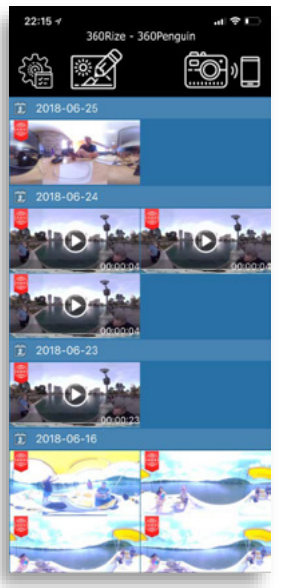


Figure 9: **Mobile Device Files** – Group File Management of Mobile Files.

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

12 APP – 360 FILES ON CAMERA

Figure 11

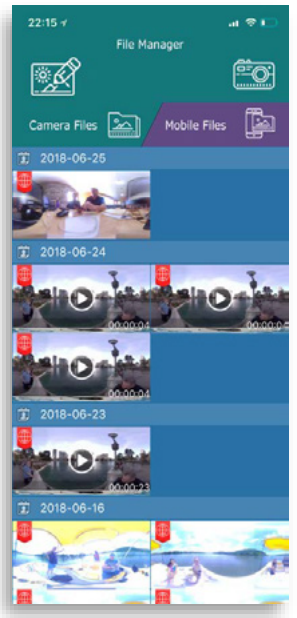


Figure 12

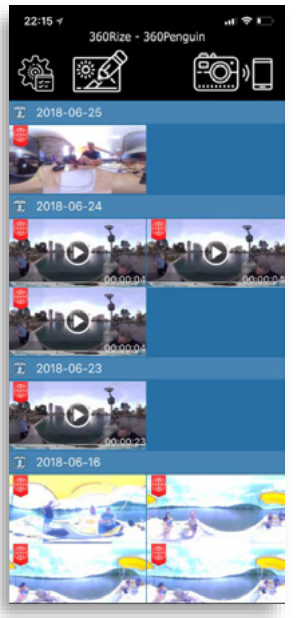


Figure 11: Camera Files located on Micro SD Card – Group File Management of Camera Files.

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

13 MOUNTING OPTIONS

Figure 1 **Figure 2** **Figure 3**

Figure 1: Camera mounted on included tripod.

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

Figure 3: Camera mounted on universal action mount.

14 SAFETY/CERTIFICATIONS

Statement

1. Please read and follow all instructions.
2. Please pay attention to all warnings.
3. Never operate the device near heat sources such as radiators, heaters, stoves, or other heat generating equipment.
4. Only use accessories and parts specified and provided by the manufacturer of 360Penguin.
5. All maintenance should be conducted by qualified personnel. Repairs are required in case of damage to the device, for example, power cord or plug damage, water damage, or damage because of falling.

Camera Security

Warning: *If you fail to take the following precautions, you may be seriously injured or killed by the electric shock or fire disaster, or your 360Penguin may be damaged. Please check before using the camera and accessories to make sure they are intact. For security, only 360Penguin accessories that are provided with the device or genuine ones purchased can be used. Using any other parts, accessories, or chargers not recommended by 360Rize may result in fire, electric shock, or casualties. Damage caused using unauthorized accessories or parts is not covered by the warranty. To learn about approved accessories, please visit the 360Rize website: www.360rize.com*

1. Never touch the plug or charger with wet hands while the camera is being charged, failure to do so may result in electric shock.
2. Do not place this product on an unstable surface, failure to do so could cause damage to the camera.
3. If using an external power connection, please follow all safety guidelines for third party power devices.
4. The 360Penguin camera lens is made of glass. In the event of being damaged, keep broken pieces away from children.
5. If the camera is getting abnormally hot during use and believed to be at risk of overheating, power the camera off immediately and let the device cool.
6. This product is not a toy and you are solely responsible for complying with all local laws, regulations, and restrictions.
7. Do not use 360Penguin for unauthorized monitoring, secret photography, or in any other way that violates personal privacy laws. Under normal circumstances, it is strictly forbidden to use the camera for such purposes; otherwise the operator may have to assume major responsibilities and suffer from criminal lawsuits.
8. Do not place the camera in extremely cold or extremely hot environments. These environments may shorten the battery life or cause the camera to temporarily malfunction.

Certifications

This symbol indicates that your product should be handled separately from household waste according to local laws and regulations. When the product life ends, please take it to the collection site designated by the local authority. The separate collection and recycling of discarded products are helpful to the protection of natural resources. Besides, please make sure that they are recycled in ways that are beneficial to the human health and environmental protection.

CE

360Heros Inc. hereby declares that 360Penguin of wireless device type complies with Directive 2014/53/EU.

Product Name: 360Penguin.

Product Model: 360Penguin v1

Software Version:

Hardware Version:

360Penguin transmits data in the frequency band 802.11b/g/n (HT20) 2412-2462MHz. Particular laws and regulations of some countries may prohibit or restrict the use of partial or all frequency bands listed above. The maximum antenna gain is 2 dBi.

FC

FCC ID: 2AQ3X-V1

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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 equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operation instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operation in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA). These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body (the test distance of SAR is 0mm).

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

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.