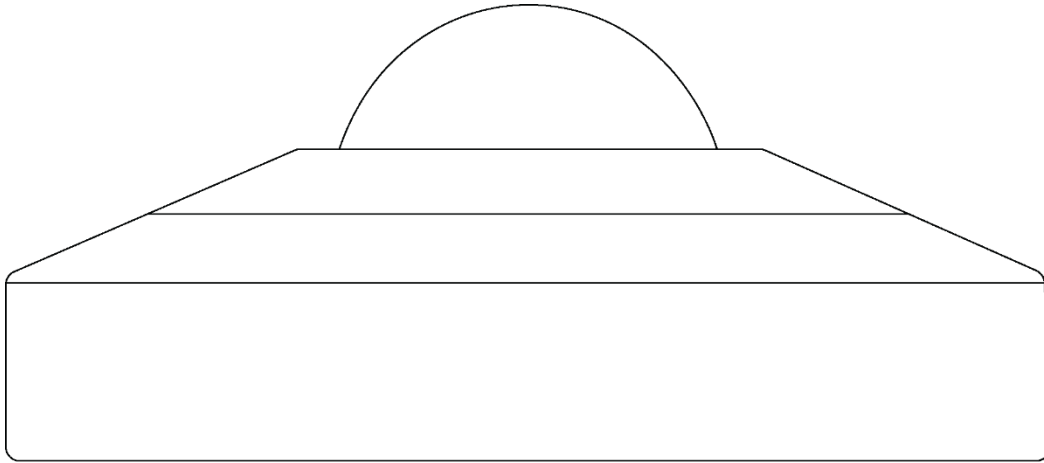


## R360S Fisheye Camera

User Manual – Engineering Draft



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Date	Revision	Notes
05/07/2025	1.0	Initial Draft

### **Federal Communication Commission Interference 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. 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 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 Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body or nearby persons.

### **Industry Canada statement:**

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference
- (2) This device must accept any interference, including interference that may cause undesired operation of the device

Cet appareil contient des émetteurs / récepteurs exempts de licence qui sont conformes au (x) RSS (s) exemptés de licence d'Innovation, Sciences et Développement économique Canada. L'opération est soumise aux deux conditions suivantes:

- (1) Cet appareil ne doit pas causer d'interférences
- (2) Cet appareil doit accepter toute interférence, y compris les interférences pouvant provoquer un fonctionnement indésirable de l'appareil

### **Radiation Exposure Statement:**

This equipment complies with Canada 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.

### **Déclaration d'exposition aux radiations:**

Cet équipement est conforme Canada limites d'exposition aux radiations dans un environnement non contrôlé. Cet équipement doit être installé et utilisé à distance minimum de 20cm entre le radiateur et votre corps.

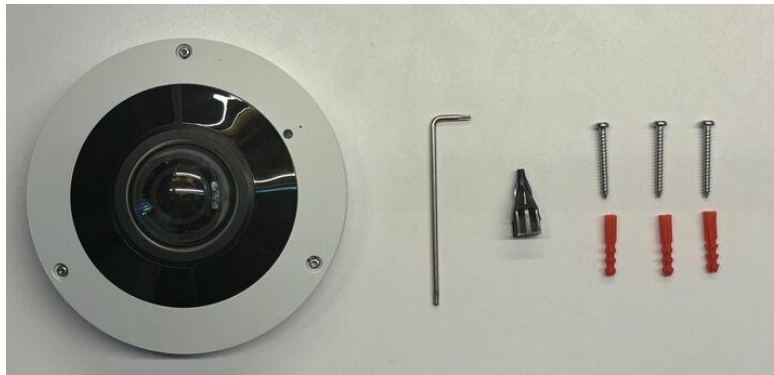
EU Importer/Distributor: Schillingweg 64, 2153 PL Nieu-Vennep, Amsterdam, The Netherland

# Prerequisites

Before you can register a Rhombus camera, you will need:

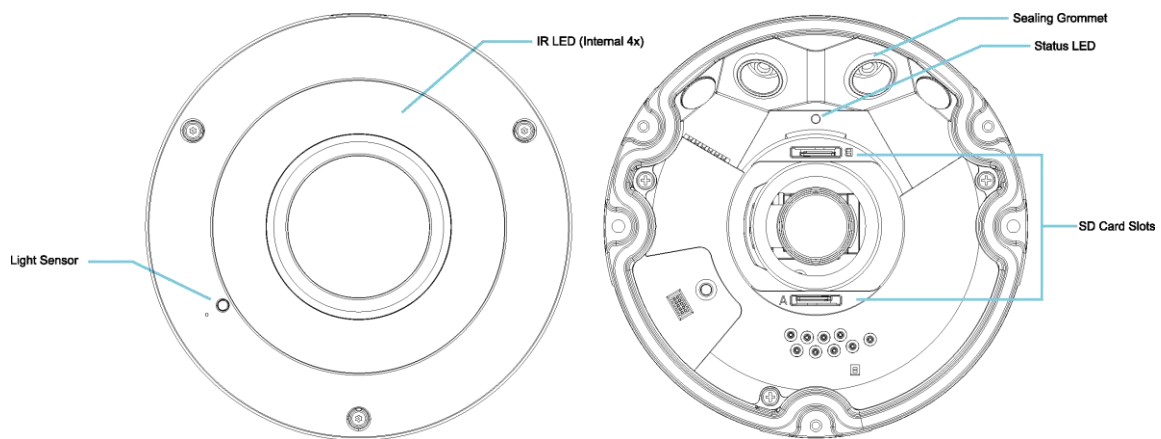
- 802.3at compliant injector or switch
- Rhombus Console Account
- Mobile phone with downloaded Rhombus App (Android or iOS)
- Camera connected to network and power (PoE+)

## R360S Overview



Included in the box:

- R360S camera
- (2) Sealing grommets (attached to camera)
- T10 Torx security key
- Grommet piercing tool
- (3) Wall screws and anchors (wood, drywall, masonry)


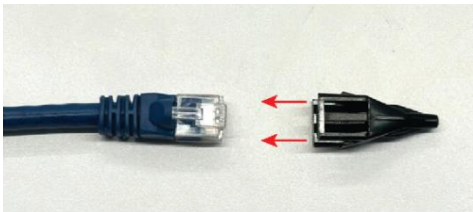
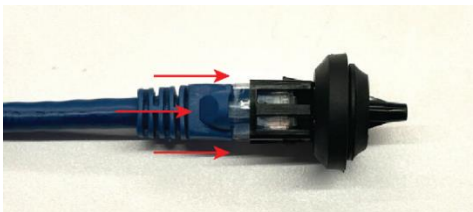



# Installation

## Waterproofing

Following the waterproofing guidelines is essential to ensure your product is covered under the Rhombus End User License Agreement and Hardware Warranty. Failure to complete the waterproofing steps as outlined in the product manual may void product warranty and limit our liability for related damages. For more information, please refer to our EULA.

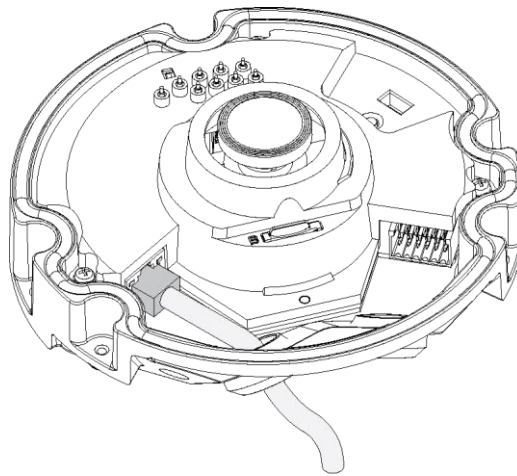
Use the included accessories to waterproof the cable connection as described below. After mounting the camera, ensure all three housing screws are firmly tightened to prevent water ingress. Dessicant packet should be replaced whenever the camera dome is removed.

Remove sealing grommet from the camera	
If PoE cable is already crimped, attach the grommet piercing tool on the cable	
Pierce the grommet with the piercing tool to create a hole for the cable  Push the cable through the grommet as shown	
Attach the sealing grommet to the camera.  Ensure that there are no gaps and all openings are sealed	

## Connecting the device

The R360S should be powered by a PoE 802.3at (also referred to as PoE+) compliant source. Ensure the cable has been properly waterproofed prior to powering on. To complete registration, a camera needs power and should be connected to a local network that has access to the internet.

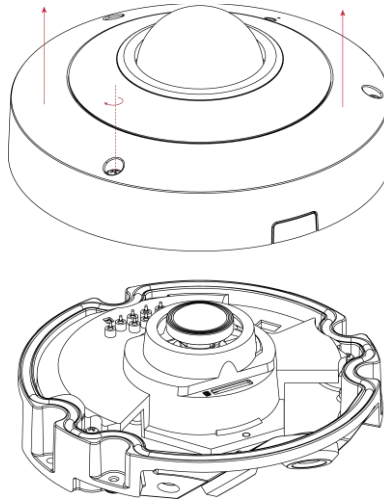
Connect the PoE cable to the device as shown, following the waterproofing steps listed above.



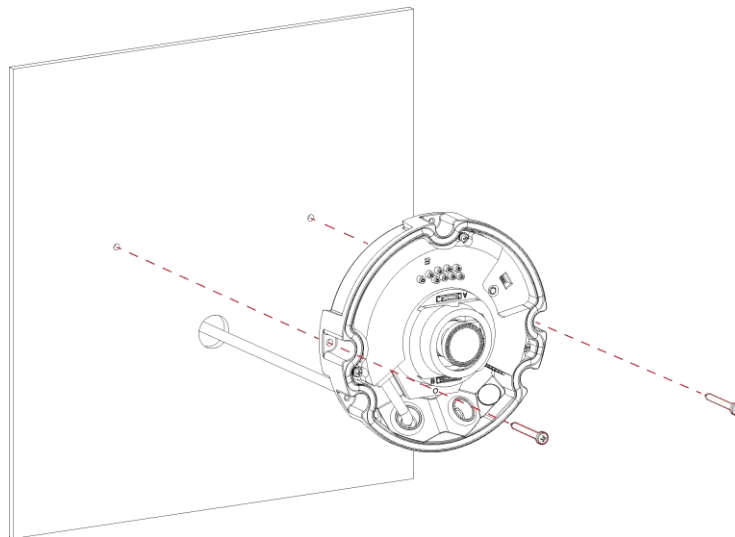
- Ensure the switch has power.
- Configure the network to comply with Rhombus requirements. Please reference the Rhombus Network Setup Guide for more details on network configuration:  
<https://support.rhombussystems.com/hc/en-us/articles/6319246804237-Network-Setup-Guide>
- Connect the camera to an 802.3at compliant PoE switch or injector for power and ethernet. The camera will automatically boot up and you can begin the registration process.

## Mounting the Camera

To install, use the provided T10 Torx security key to unscrew the three dome screws and remove the top cover.

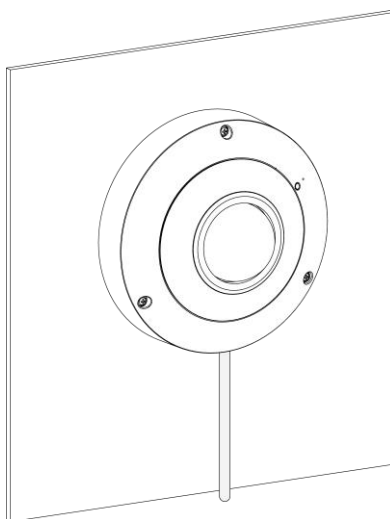


Use the camera as a mounting template to pre-drill pilot holes into the desired mounting surface. Fasten the device to the surface using the included mounting screws. Follow waterproofing steps to route PoE cable into the device and ensure that the sealing grommet is properly secured.



Once mounted, replace the top cover and secure the three dome screws using the included T10 Torx security key. Adequate fastening of cover screws is required to ensure proper sealing.

If mounting the device vertically outdoors and PoE cable is not routed through the mounting surface or a conduit box, ensure that the cable exits downward as shown to prevent water ingress.



## Compatible Accessories

The R360S is compatible with select Rhombus accessories to support various installation options. For a full list of accessories compatible with the device, please visit the R360S product page at: [PLACEHOLDER] <https://www.rhombus.com/cameras/fisheye-cameras/r360s/>

## Registration

The device can be registered once it is powered up and connected to the internet. Ensure the camera has the correct LED status that indicates it is ready for registration.

Camera Model	Connected to Rhombus Servers	Not Connected to Rhombus Servers	Registration Failure
R360S	[TBD]	[TBD]	[TBD]

For a full explanation of device status LED behavior, please visit: <https://support.rhombussystems.com/hc/en-us/articles/14793298069773-Device-LED-Statuses>

If the camera does not auto-register when brought online, you can register the device from the Rhombus Mobile App or via the Rhombus Web Console.



# Specifications

## General:

- Dimensions: Ø147 x 63 mm [Ø5.78 x 2.50 in]
- Weight: 0.69 kg [1.52 lb]
- IR Range: 15 m [49 ft]
- Vandal Resistance: IK10
- Storage: Supports up to 2 micro SD cards
- Mounting: Wood/drywall screws
- 10-Year Warranty

## Optical:

- Resolution: 12 MP Progressive CMOS sensor
- Field of View
  - Horizontal: 180°
  - Vertical: 180°
- Aperture: F2.0
- Iris: Fixed

## Connectivity/Power

- PoE IEEE802.3at
- Wireless Sensor Platform Enabled

## Environmental

- Weather Resistance: IP66
- Operating Temperature: [TBD]
- Operating Humidity: 10 – 90% RH non-condensing

## Compliance

- FCC, IC, CE, UKCA, RCM, LVD