Quick Install Guide

ΛΝΛVIO Fisheye Camera

VA-DFE12A-1TB

VICON
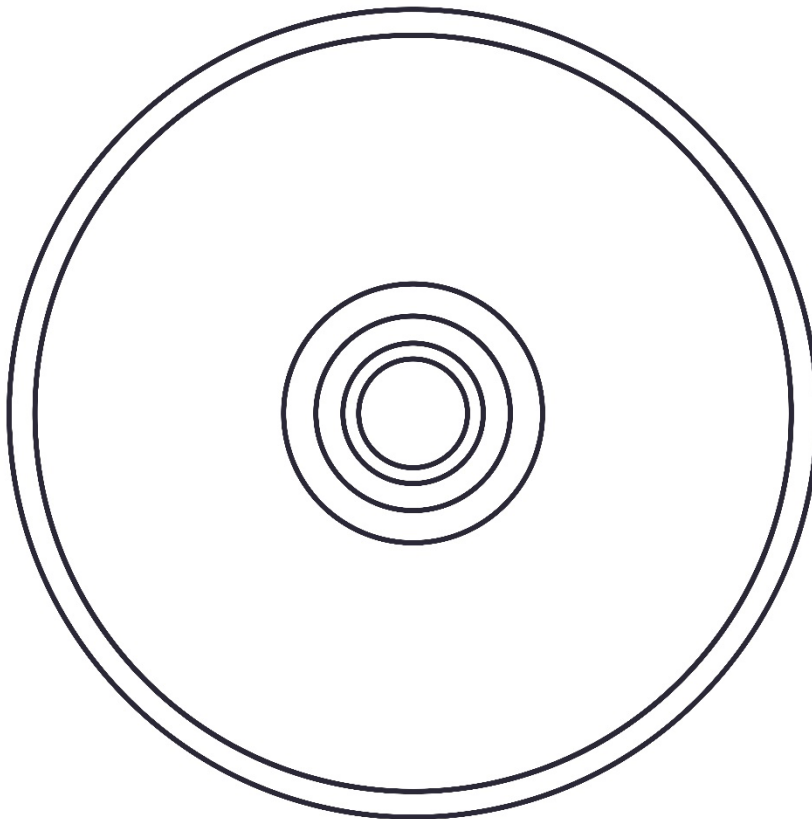
WARNING

- This camera operates at 24 VAC/PoE+ (IEEE 802.3at Class 4).

- Installation and service should be performed only by qualified and experienced technicians and comply with all local codes and rules to maintain your warranty.

- We are NOT liable of any damage arising either directly or indirectly from inappropriate installation which is not depicted within this documentation.

- To reduce the risk of fire or electric shock, do not expose the product to rain or moisture.

- Wipe the camera with a dry soft cloth. For tough stains, slightly apply a diluted neutral detergent and wipe with a dry soft cloth.

- Do not apply benzene or thinner to the camera, which may cause the surface to melt or lens to fog.

- Avoid aligning the lens with extremely bright objects (e.g., light fixtures) for long periods of time.

- Although this camera is waterproof and suitable for both indoor and outdoor usages, please do not immerse the camera into water.

- Avoid operating or storing the camera in the following locations:

    o Extremely humid, dusty, or hot/cold environments
      (recommended operating temperature: -40 to 122° F/-40°C to +50°C)

    o Close to sources of powerful radio or TV transmitters

    o Close to fluorescent lamps or objects with reflections

    o Under unstable or flickering light sources

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THE UNIT.
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	THIS SYMBOL INDICATES THAT IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS ACCOMPANY THIS UNIT.

WEEE (Waste Electrical and Electronic Equipment). Correct disposal of this product (applicable in the European Union and other European countries with separate collection systems). This product should be disposed of, at the end of its useful life, as per applicable local laws, regulations, and procedures.

FCC COMPLIANCE STATEMENT

Information to the user: This unit has been tested and found to comply with the limits for a Class A digital device pursuant to 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. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This unit generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this unit does cause harmful interference to radio or television reception, which can be determined by turning the unit 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 unit and receiver.

- Connect the unit to 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.

CAUTION   Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the unit.

CE STATEMENT

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. The manufacturer declares that the unit supplied with this guide is compliant with the essential protection requirements of EMC directive and General Product Safety Directive GPSD conforming to requirements of standards EN 55022 for emission and EN 50130-4 for immunity.

This product is IP67 rated for outdoor environments and IK10 rated for impact protection. The camera also meets regulations required to be NDAA, GSA schedule and TAA approved.

TABLE OF CONTENTS

1. PRODUCT OVERVIEW

PHYSICAL CHARACTERISTICS

1.9 (49.19)

2.2 (56.99)

.76 (19.35)

Ø5 (150)

0.6 (14.88)

0.9 (23) 0.9 (23)
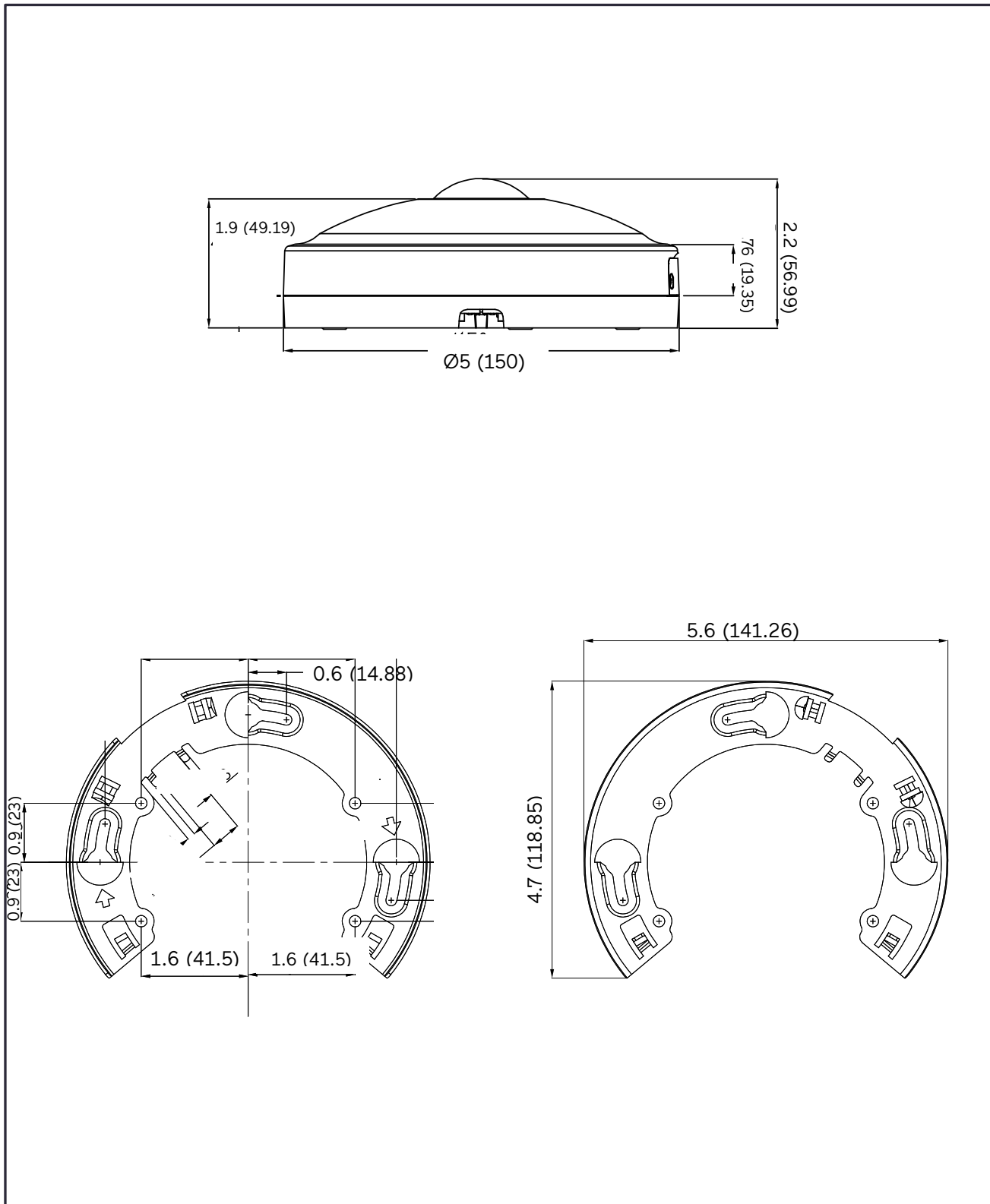
1.6 (41.5)   1.6 (41.5)

5.6 (141.26)

4.7 (118.85)
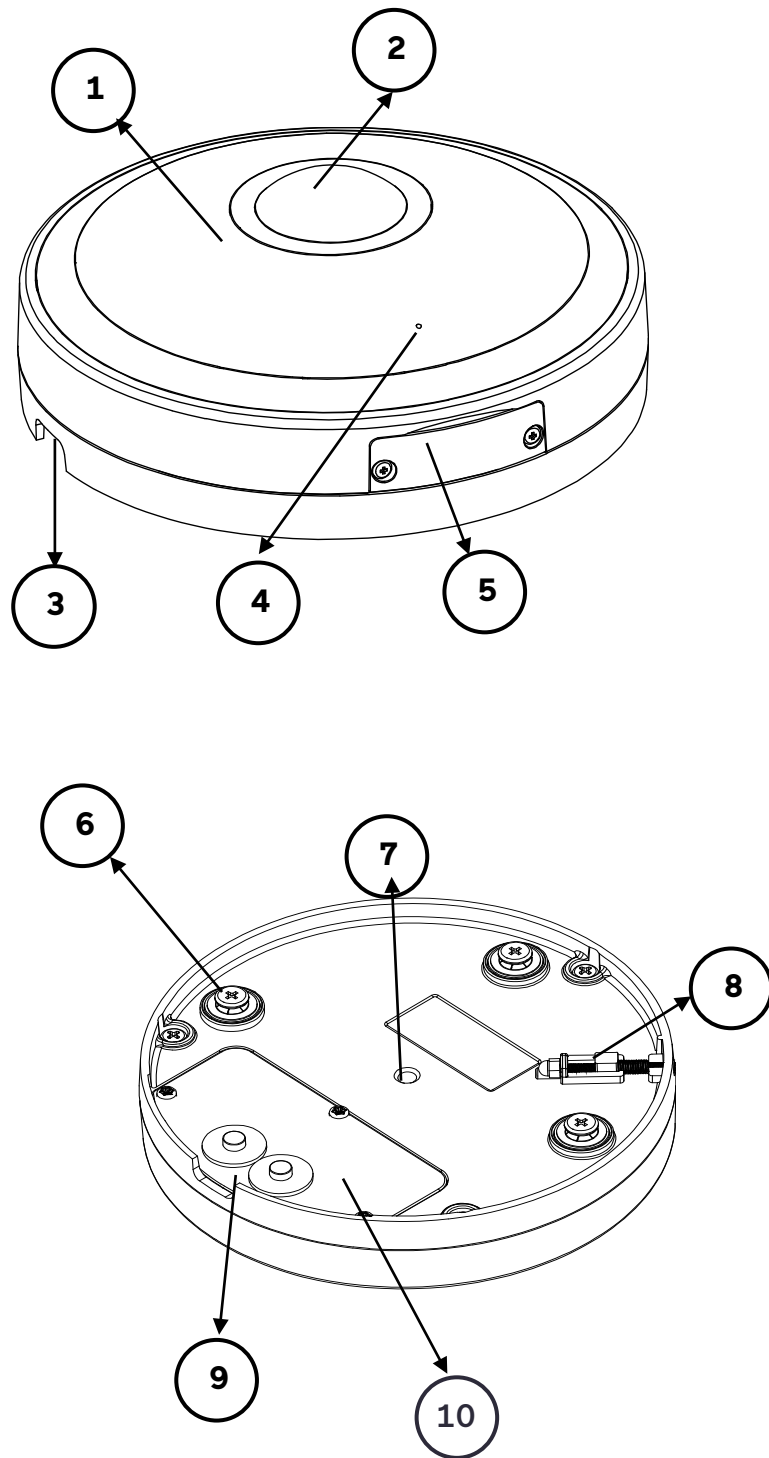
FIGURE 1-1: PHYSICAL DIMENSIONS [IN. (MM)]

FIGURE 1-2: OUTER VIEW

1 **Dome Cover**

The upper dome-shape cover provides protection.

2 **Lens**

Fisheye lens provides wide hemispheric view.

3 **Weep Hole**

Permits water drainage.

4 **Mic**

Built-in microphone.

5 **Access Cover**

Houses the RESET/DEFAULT button, Micro SD Card Slot, etc.

6 **Mounting Posts**

Three symmetrical posts for mounting with mounting plate.

7 **Mounting Thread Hole**

¼-20 mounting hole.

8 **Security Lock**

Security screw for locking camera to the bracket.

9 **Waterproof Grommet**

Two grommets for waterproof entry of network and I/O cables.

10 **Cable Access Cover**

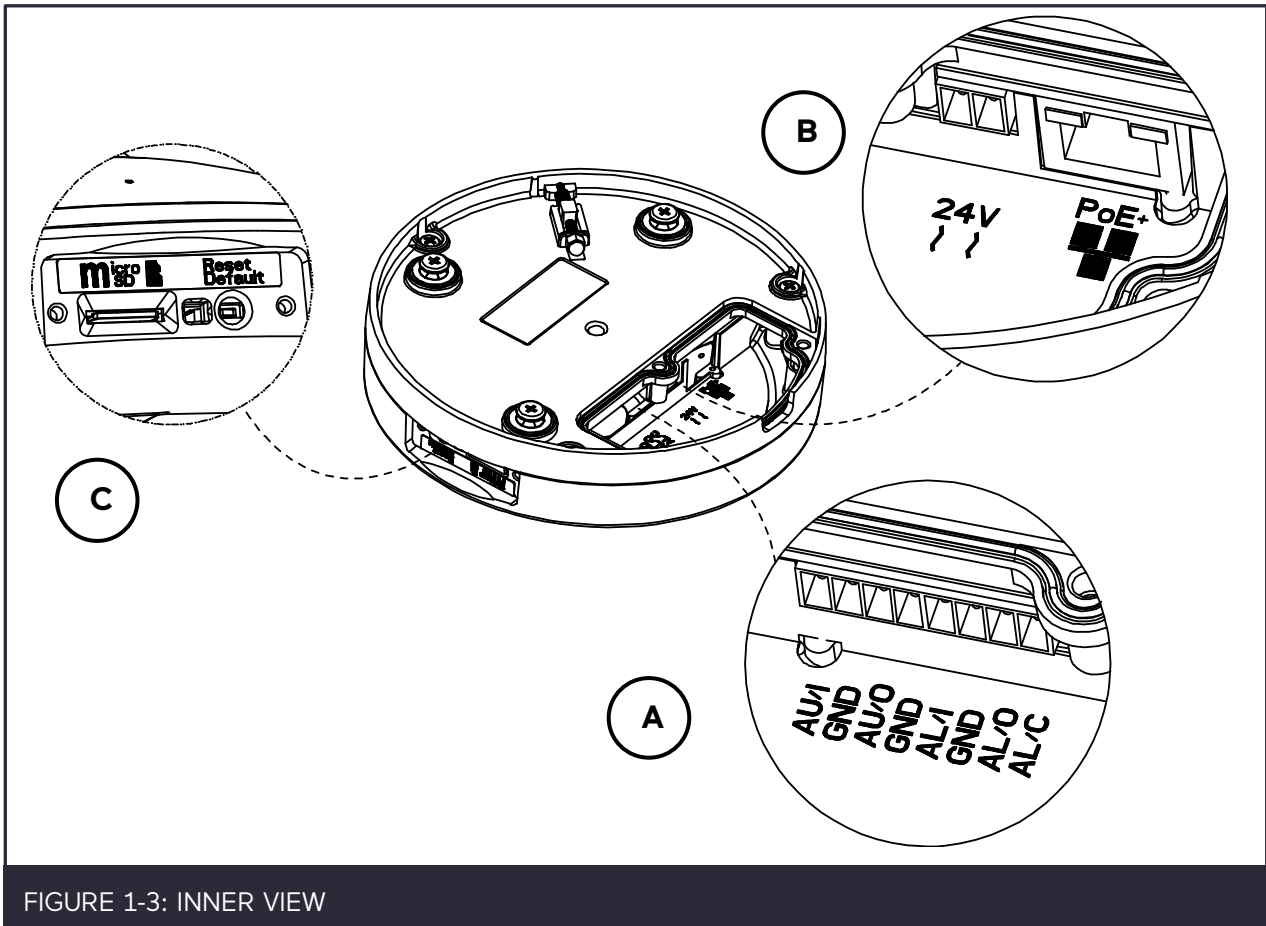Waterproof cover to protect network and I/O connections.

FIGURE 1-3: INNER VIEW

(A) Alarm/Audio Inputs and Outputs

DI/DO (Digital Input/Digital Output) ports are provided for external devices, e.g., door contacts, smoke detector, audible alarm, etc.

- Alarm In: Via "AL/I" and "GND" ports; connect to external device that can trigger alarm input signals.

- Alarm Out: Via "AL/O" and "GND" ports; connect to external device to be triggered through alarm output signals.

Audio Input/Output ports are provided for connection of external microphone and speaker.

- Audio In: Via "AU/I" and "GND" ports; connect to external device, such as microphone.

- Audio Out: Via "AU/O" and "GND" ports; connect to device, such as speaker.

(B) RJ-45 Network Port/Power Terminals

Connect the RJ-45 connector to this port with a PoE+ (Class 4) compatible network device that supplies power through the Ethernet cable. To power the camera, connect 24 VAC external power source to corresponding 2-pin ports.

(C) Default and Reset Button

Press the button for less than 1 second to reboot the camera. Press the button for 6 seconds to restore the camera settings to factory default.

Micro SD Card Slot

Micro-SD card slot for recording and file storage.
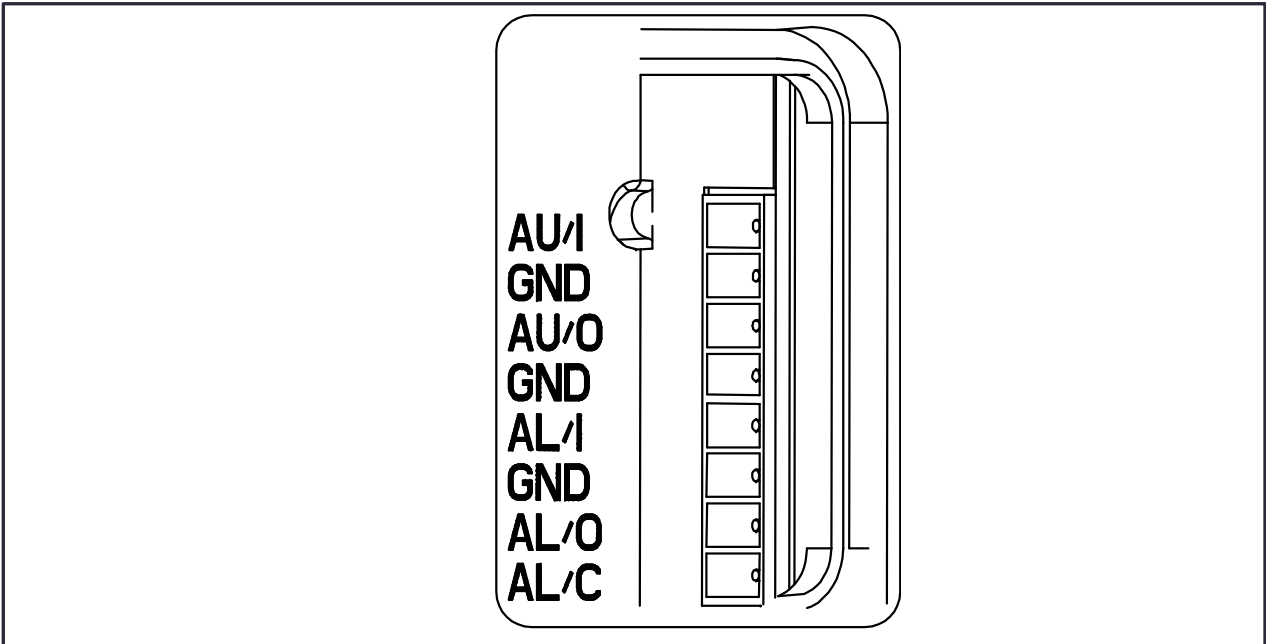Micro SD card, 1 TB, included.

FIGURE 1-4: I/O PORTS

Function	Port
Audio In	AU/I
	GND
Audio Out	AU/O
	GND
Alarm In	AL/I
	GND
Alarm Out	AL/O
	GND

NOTES:

Power supply terminal/adaptor for IO connectors and field wiring should comply with the Class 2 Circuit standard for ensuring safety from electrical fires and providing acceptable protection against electrical shock.

The Alarm Out pin is a 30 VDC output signal with a maximum load of 1 A. The Alarm In pin acts as a switch, which is either NO (Normal Open) or NC (Normal Closed).

2. INSTALLATION AND MOUNTING

PACKAGE CONTENTS

Ensure all items listed below are included in the packing box.

- Fisheye Camera (Qty 1)

- Mounting Bracket (Qty 1)

- Safety Wire (Qty 1)

- Plastic Anchor (Qty 4)

- Self-Tapping Screws (TP4) (Qty 4)

- Torx Wrench (Qty 1)

- 2-Pin Terminal Block (Qty 1)

- 8-Pin Terminal Block (Qty 1)

- Mounting Template (Qty 1)

INSTALLATION

The following tools might be helpful for completing the installation:

- Drill

- Screwdrivers

- Wire cutters

CHECKING APPEARANCE

When unpacking, check to see if there is any visible damage to the appearance of the camera and its accessories. Remove the protective materials from the camera after every item is properly checked in accordance with the list in **Package Contents.**

MOUNTING THE CAMERA

1. Place the supplied mounting template on a mounting surface.

2. Drill four Ø6.35 mm (0.25 in.) holes on a clean flat surface (ceiling or wall) and insert four plastic anchors into the drilled holes.

3. Affix the mounting bracket onto the surface using the four TP4 screws.

4. Remove the cable access cover.

5. Each rubber grommet supports one jacketed cable. Do not remove plug from unused grommets.

6. Pass cables through the grommet and terminate the connections:

    *   Network cable to the Ethernet port

    *   24 VAC power cord to the 2-pin power termina

    *   Audio and alarm input/output cables to the 8-pin terminal block

---

NOTE   To maintain IP67 rating, do not slit or alter the grommet.

Only use jacketed cables with a diameter between 0.165-0.2 in. (4.2- 5 mm).

---

7. Connect the wire loop of the safety wire to the hook of the mounting bracket and the other end to the ¼-20 mounting screw.

8. Connect the RJ-45 and I/O cables as required.

9. Fully tighten screws of the cable access cover to ensure IP67 sealing of the camera.

10. Align the three mounting posts on the rear of the camera with the corresponding holes on the mounting bracket, as shown in figure below. Rotate the camera clockwise until it clicks into place so that camera will be firmly mounted.

11. To disassemble, rotate the camera counterclockwise and remove it from the mounting bracket.
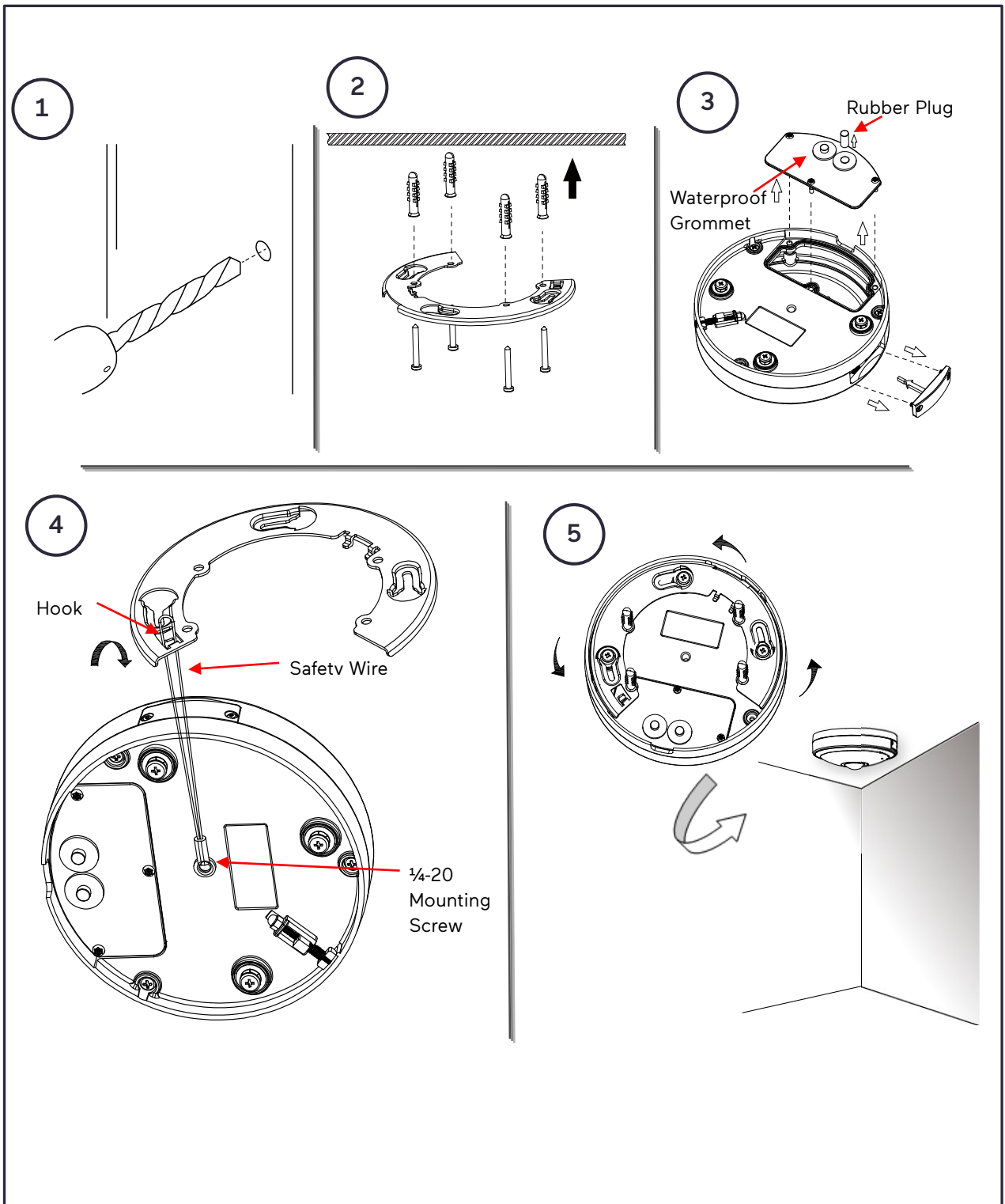
1

2

3
Rubber Plug
Waterproof
Grommet

4
Hook
Safety Wire
¼-20
Mounting
Screw

5

FIGURE 2-1: MOUNTING THE CAMERA

Security Lock

To secure the camera to the mounting bracket, turn the security screw counterclockwise. If it is necessary to remove the camera from mounting bracket, turn the security screw clockwise.
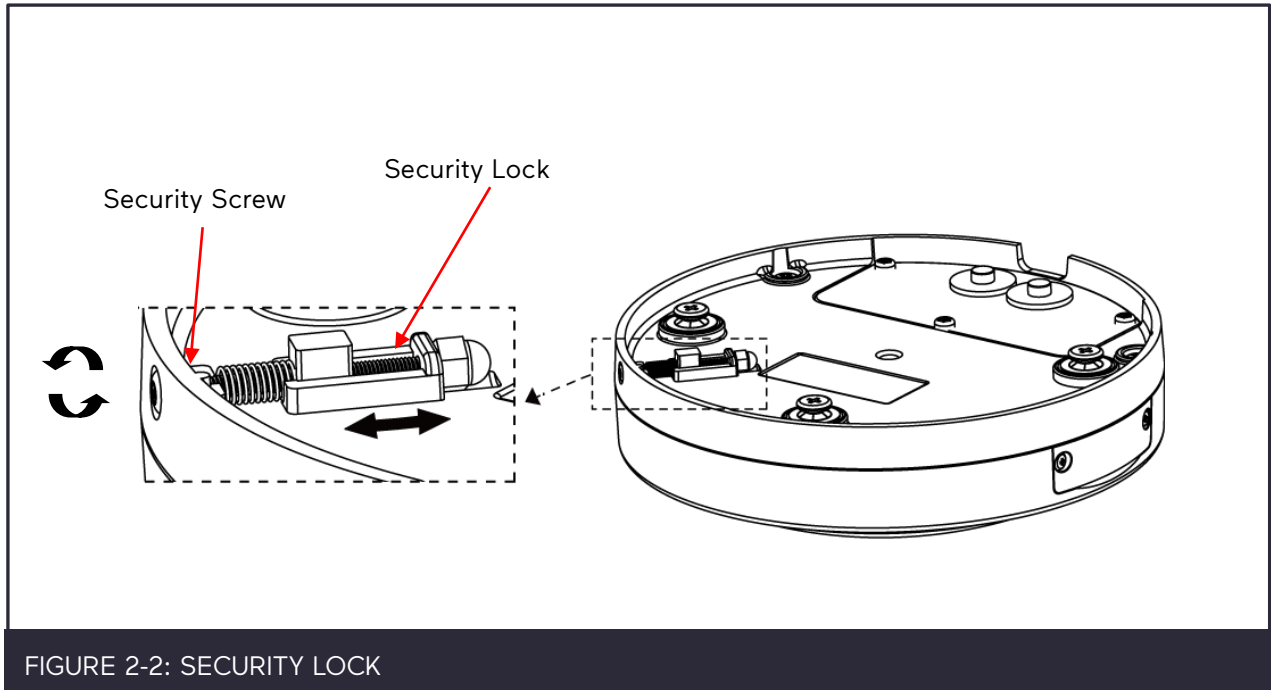

FIGURE 2-2: SECURITY LOCK

✕ VICON

24-Hour Technical Support:
800-34-VICON (800-348-4266)
UK: 44/(0) 1489-566300
Toll Free: 800-645-9116

T: 631-952-2288
F: 631-951-2288

vicon-security.com