Quick Installation Guide

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FD8362/62E

Network Camera

2 MP • Smart Focus System • Vandal-proof
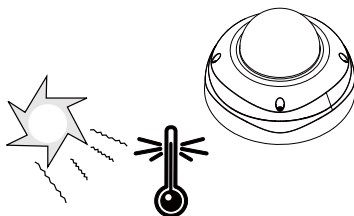

SUPREME
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⚠ **Warning Before Installation**

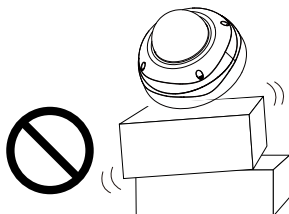● **Power off the Network Camera as soon as smoke or unusual odors are detected.**

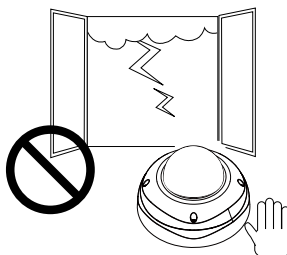⚠ Contact your distributor in the event of occurrence.

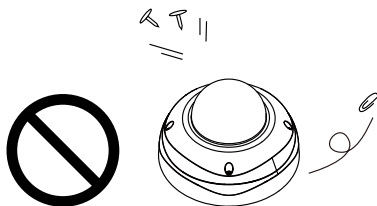● **Refer to your user's manual for the operating temperature.**

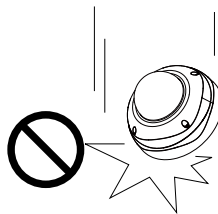● **Do not place the Network Camera on unsteady surfaces.**

● **Do not touch the Network Camera during a lightning storm.**

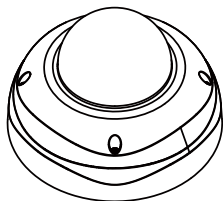● **Do not insert sharp or tiny objects into the Network Camera.**

● **Do not drop the Network Camera.**

1 Package Contents

FD8362/62E

Mounting Plate

Alignment Sticker / Ceiling Hole Template Sticker

Drill hole

Alignment Sticker

At least drill 2 pilot holes symmetrically on each side to avoid falling.

L-type Hex Key Wrench / Silica Gel / Screws / Hex Nut / DC Power Cable / Double-sided Tape
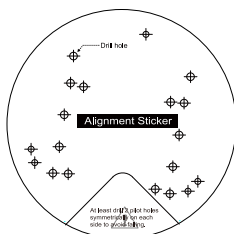
Quick Installation Guide / Warranty Card

Software CD

Waterproof Connector & Bushing

DC Power Adapter (Optional, for indoor use only)
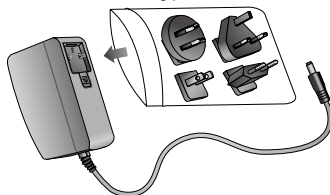
2 Physical Description

● **Inner View**

Light Sensor

Vari-focal Lens

Black Cover

Tilt Adjustment Screw

Micro SD/SDHC Card Slot

Jumpers

Microphone Internal	Video Output NTSC 60Hz
↕	↕
External 1	PAL 50Hz 2

Reset Button

Audio/Video Out (green)

Microphone In (pink)

Ethernet 10/100 RJ45 Socket

General I/O Terminal Block
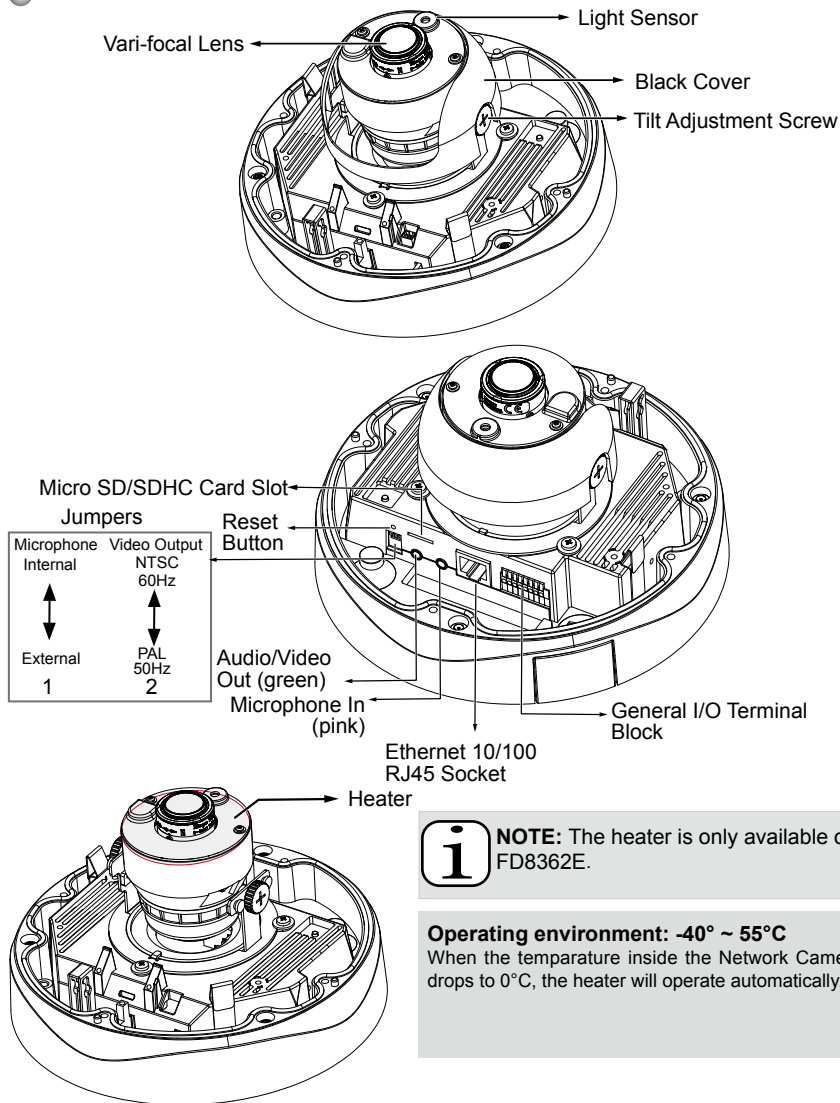
Heater

ⓘ NOTE: The heater is only available on FD8362E.

Operating environment: -40° ~ 55°C
When the temparature inside the Network Camera drops to 0°C, the heater will operate automatically.

Outer View

IP66-rated Vandal-proof
Dome Cover
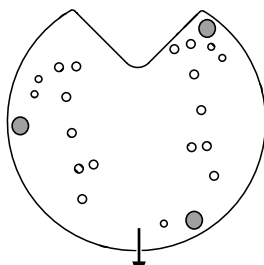
Mounting Plate

ⓘ Record the MAC address
under the camera base
before installing the camera.
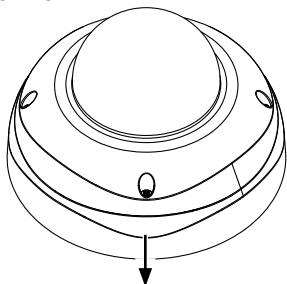

ⓘ Replace the side opening cover with the
included side outlet bushing if you want to
route cables from the side of camera. The
1/2" protection conduits and tubing are
separately purchased.

3 Hardware Installation

First, use the included T20 hex key wrench to loose the four screws and detach the dome cover from the camera base. Follow the steps below to install the camera either to a ceiling or a wall.
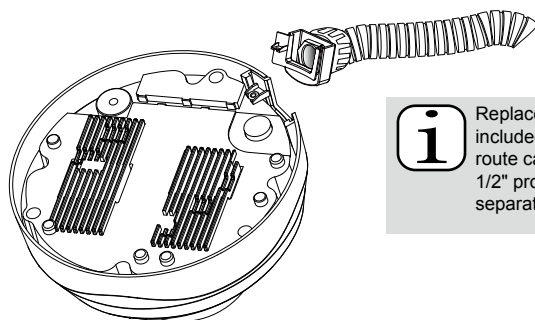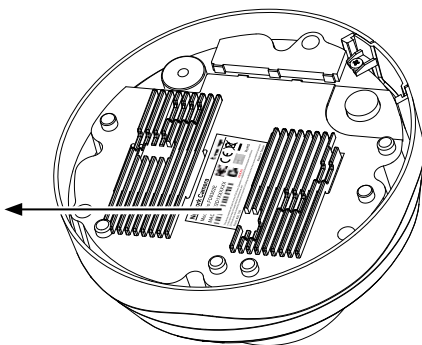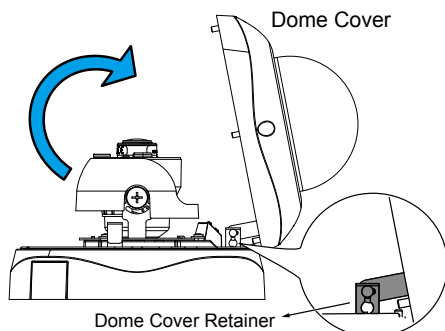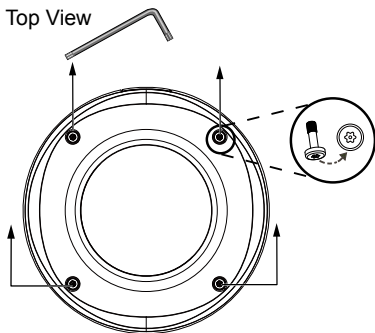
⚠️ **IMPORTANT!** Dome cover should be removed because if it should fall during the installation process, physical injury could occur to your co-workers.

Top View

Dome Cover

Dome Cover Retainer

Cabling Assembly

Connect power lines and if you have external devices such as sensors and alarms, make the connection from the general I/O terminal block.

Top View

● **Pin Definitions**
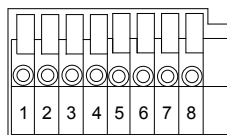
1	DC 12V-
2	DC 12V+
3	AC 24V_2
4	AC 24V_1
5	DI- (GND)
6	DI+
7	DO-
8	DO+ (12V)

Power and IO cables pass through a waterproof connector. The Ethernet cable should be routed through a rubber seal plug. All cables are user-supplied.

📝 **NOTE:**

The max. output load from pins #7 and 8 is 400mA.
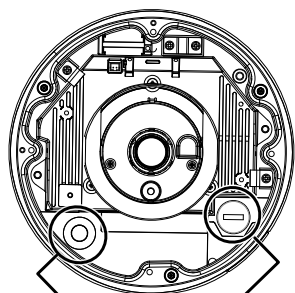
For Ethernet Cable   For Power & IO Cables

Waterproof Connector

- Sealing Nut (A)
- Housing (B)
- Seals (C)
- Seal (D)
- Screw Nut (E)
- Hex Nut (F)

- (A)
- (B)
- (D)
- (E)
- (F)

◯ Assembling Steps

1. Disassemble the components of the waterproof connector into parts (A) ~ (F) as shown above.

2. Place the screw nut (E) on the Power and GPIO opening.

3. Feed the power cables through the waterproof connector (F --> E --> D --> B --> A) as the illustration shows. Then connect the power cables to the power source. Note: There are 8 holes on the seal (D), and the widest holes with a crack on the side are specific for power cables.
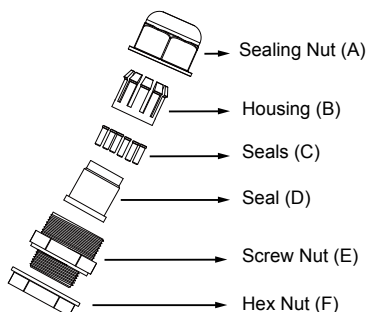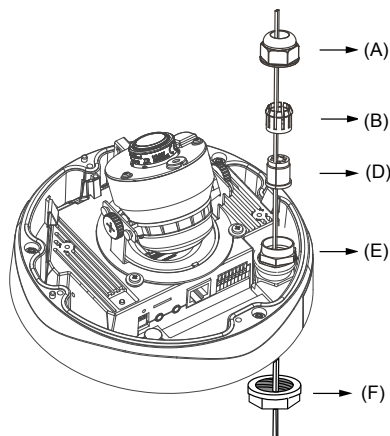
4. If you have external devices such as sensors and alarms, feed the cables through the waterproof connector (F --> E --> D --> B --> A) as previously described. Refer to the pin definition to connect them to the general I/O terminal block. Note: The recommended cable gauge is 2.0 ~ 2.8 mm.

5. Push the seal (D) into the housing (B).

6. Insert the seals (C) into unused holes on the seal (D) to avoid moisture.

7. Secure the sealing nut (A) tightly and hex nut (F) from the bottom of the camera.

Connecting RJ45 Ethernet Cable

◯ RJ45 Cable Dimension (unit: mm)

Recommended cable gauge: 24AWG (0.51 mm)

◯ Assembling Steps

Rubber Seal Plug

12 mm
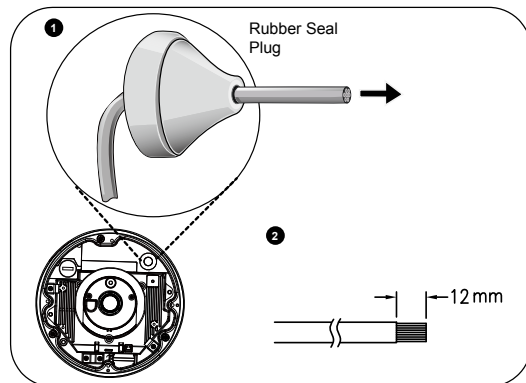
1. Drill a hole on the rubber seal plug and insert an Ethernet cable through the opening.

2. Strip part of the sheath from the Ethernet cable.

o: white/orange stripe
O: orange solid
g: white/green stripe
B: blue solid
b: white/blue stripe
G: green solid
br: white/brown stripe
BR: brown solid

3. You will need an RJ45 crimping tool to attach the Ethernet wires to a connector. When done, connect the cable to the camera's Ethernet RJ45 socket.

4. Press the Ethernet cable into the routing path at the bottom of the camera so that the cable will not get in the way when the metal mounting plate is attached.
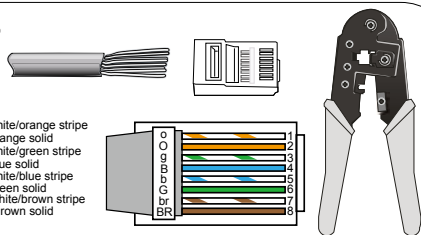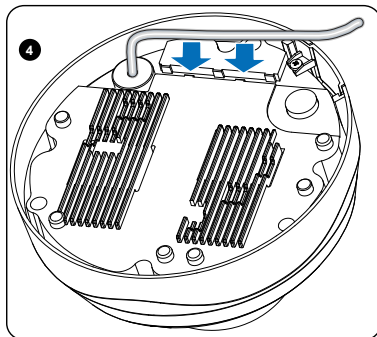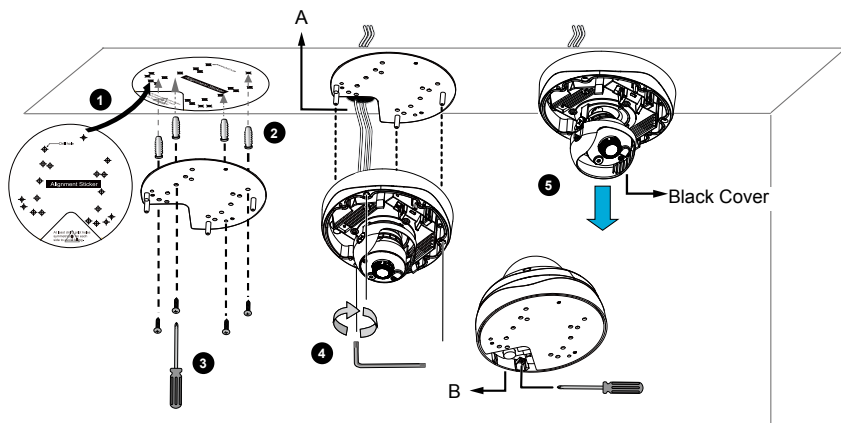

Ceiling mount

1. Attach the supplied alignment sticker to the ceiling.
2. Using the circle marks on the sticker, drill at least 2 pilot holes symmetrically on each side into the ceiling. Then hammer the four supplied plastic anchors into the holes.
3. Through three or four holes on the mounting plate, insert the supplied screws into the corresponding holes and secure the mounting plate with a screwdriver.
4. Feed the cables through the triangular cutout A or side opening B. If you want to use hole B, remove the side cover using a screwdriver. Secure the camera base to the mounting plate with three supplied screws.
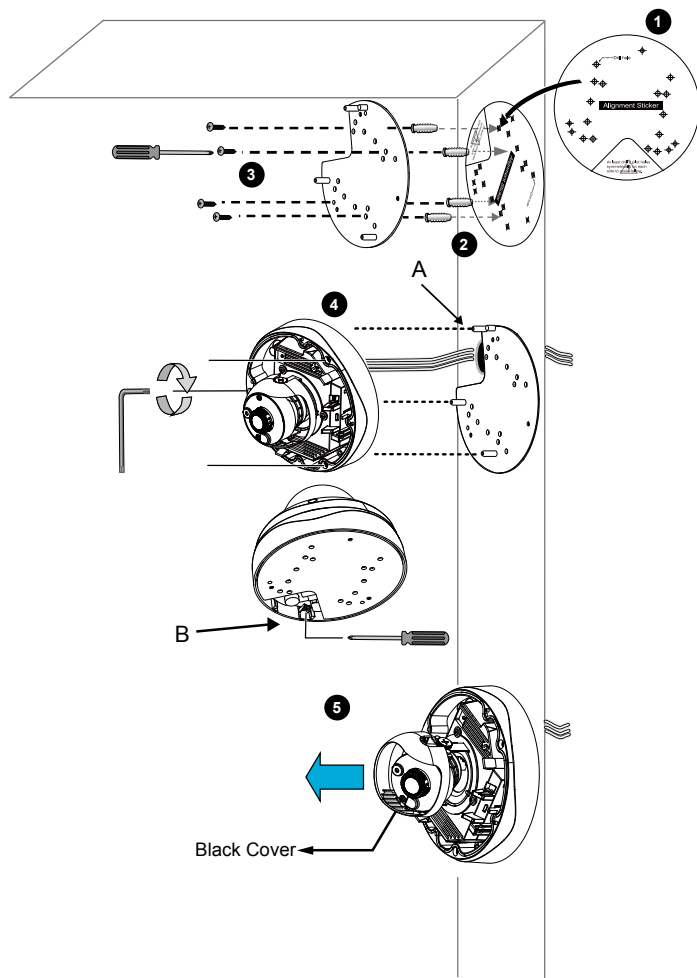5. Remove the black cover.

Black Cover

Wall mount

1. Attach the supplied alignment sticker to the wall.
2. Using the circle marks on the sticker, drill at least 2 pilot holes symmetrically on each side into the wall. Then hammer the four supplied plastic anchors into the holes.
3. Through three or four holes on the mounting plate, insert the supplied screws into the corresponding holes and secure the mounting plate with a screwdriver.
4. Feed the cables through the triangular cutout A or side opening B. If you want to use hole B, remove the side cover using a screwdriver. Secure the camera base to the mounting plate with three supplied screws.
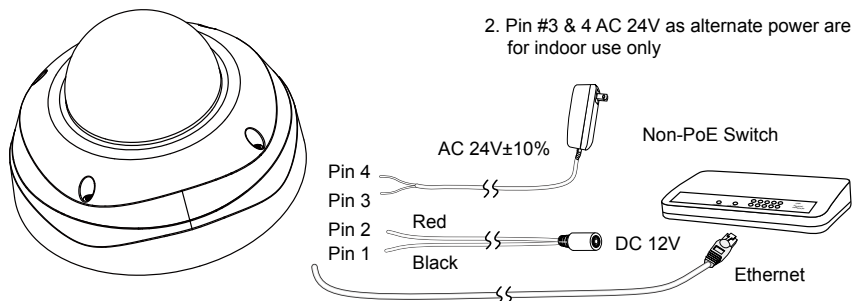5. Remove the black cover.

Alignment Sticker

A

B

Black Cover

4 Network Deployment

General Connection (without PoE)

NOTE:

1. The DC power adaptor, if used, should comply with: O/P: 12V DC, 1.5A min., L.P.S. certified.

2. Pin #3 & 4 AC 24V as alternate power are for indoor use only

AC 24V±10%

Non-PoE Switch

Pin 4
Pin 3
Pin 2   Red
Pin 1
Black

DC 12V

Ethernet

1. Connect RJ45 Ethernet cable to a switch.
   Use a Category 5 Cross Cable when your network camera is directly connected to PC.

2. Connect either the DC or AC cables from the terminal block. The IO cables are user-supplied.

Power over Ethernet (PoE)

● When using a PoE-enabled switch

The Network Camera is PoE-compliant, allowing transmission of power and data via a single Ethernet cable. Follow the below illustration to connect the Network Camera to a PoE-enabled switch via Ethernet cable.
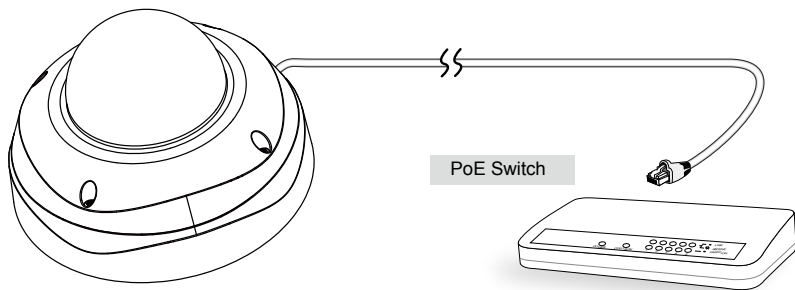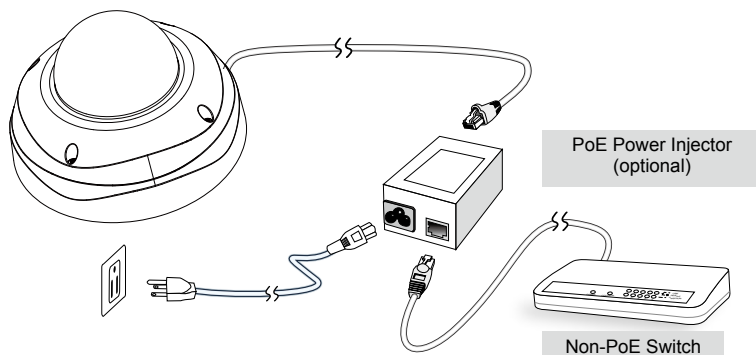
PoE Switch

NOTE:

1. This equipment is only to be connected to PoE networks without routing to outside plants.

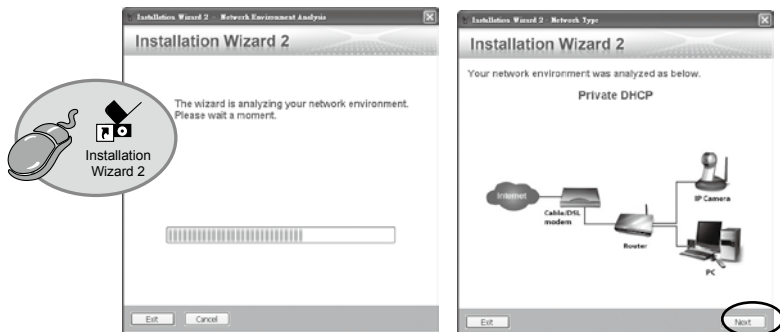2. For PoE input connections, use only UL listed I.T.E. with PoE output.

EN - 9

⬤ **When using a non-PoE switch**

Use a PoE power injector (optional) to connect between the Network Camera and a non-PoE switch.

PoE Power Injector (optional)

Non-PoE Switch

5   Assigning an IP Address

1. Install "Installation Wizard 2" from the Software Utility directory on the software CD.

2. The program will conduct an analysis of your network environment. After your network is analyzed, please click on the "Next" button to continue the program.

Installation Wizard 2

Installation Wizard 2

The wizard is analyzing your network environment. Please wait a moment.

Exit   Cancel

Installation Wizard 2

Your network environment was analyzed as below.

Private DHCP

Internet

Cable/DSL modem

Router

IP Camera

PC

Exit   Next

3. The program will search for VIVOTEK Video Receivers, Video Servers, and Network Cameras on the same LAN.

4. After a brief search, the main installer window will pop up. Double-click on the MAC address that matches the one printed on the camera label or the S/N number on the package box label to open a browser management session with the Network Camera.
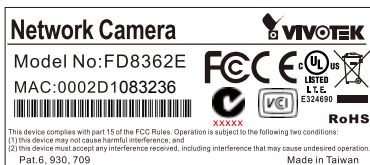
6 Ready to Use

1. A browser session with the Network Camera should prompt as shown below.

2. You should be able to see live video from your camera. You may also install the 32-channel recording software from the software CD in a deployment consisting of multiple cameras. For its installation details, please refer to its related documents.

For further setup, please refer to the user's manual on the software CD.

7 **Adjusting the Lens**

Based on the live image retrieved from the camera, adjust the camera lens by doing the following:

To adjust the viewing angle -- 3-axis mechanism design

1. Loosen the tilt adjustment screws and then turn the lens module up or down. Upon completion, tighten the screw.
2. Turn the lens to adjust the image orientation.

The sophisticated 3-axis mechanism design offers very flexible, easy hardware installation for either ceiling or wall mount.

❶ Tilt Adjustment Screws

❷ Vertical Tilt 80°

Lens Horizontal Pan 350°

Horizontal Pan 350°
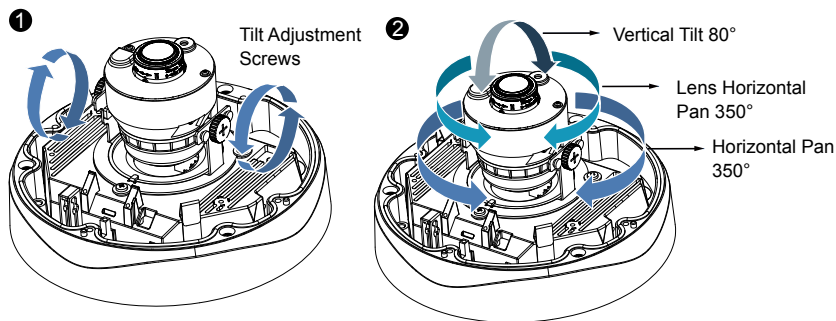
8 **Completion**

1. Install the black cover.
2. Attach the dome cover to the camera by combining it to the retainer and aligning with the mounting holes.
3. Secure the four dome screws with the supplied hex key wrench. Make sure all parts of the camera are securely installed.

❶ Black Cover

❷

❸

❸
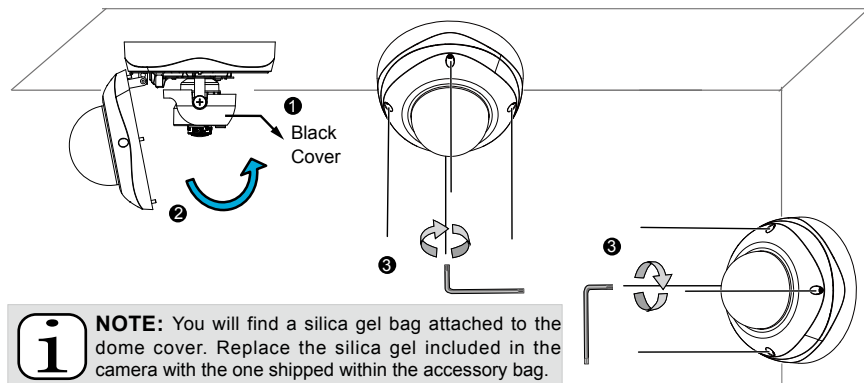
NOTE: You will find a silica gel bag attached to the dome cover. Replace the silica gel included in the camera with the one shipped within the accessory bag.

VIVOTEK

www.vivotek.com