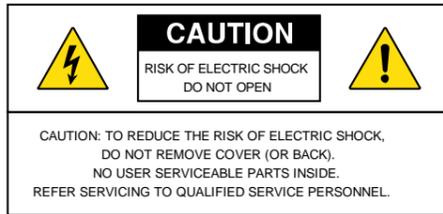


# HDZ Series IP PTZ Dome Quick Installation Guide

800-11874V5 - Rev A - 01/2015

## Cautions and Warnings



**WARNING** Installation and servicing should be performed only by qualified and experienced technicians to conform to all local codes and to maintain your warranty.

**WARNING** To ensure compliance with electrical safety standards, CSA Certified/UL Listed Class 2 power adapters are required. Power over Ethernet (PoE+) shall be supplied by listed Information Technology Equipment meeting the IEEE 802.3at-2009 PoE+ standard. The PoE is not intended to be connected to exposed (outside plant) networks.

### IMPORTANT NOTE Regarding PoE operation of models HDZ22HDE(X), HDZ36E(X) and HDZ30HDE

A high power PoE injector capable of supplying at least 60 W is required for proper operation of outdoor camera models HDZ22HDE(X), HDZ36E(X) and HDZ30HDE, as PoE to IEEE802.3af or IEEE802.3at will not support this model.

## FCC Statement of Compliance

**Information to the User:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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

This Class A digital apparatus complies with Canadian ICES-003.  
Cet appareil numérique de la Classe A est conforme à la norme NMB-003 du Canada.

## Manufacturer's Declaration of Conformance

The manufacturer declares that the equipment supplied with this guide is compliant with the European Parliament and Council Directive on the Restrictions of the use of certain Hazardous Substances in electrical and electronic equipment (2011/65/EU), General Product Safety Directive (2001/95/EC) and the essential requirements of the EMC Directive (2004/108/EC), conforming to the requirements of standards EN 55022 for emissions, EN 50130-4 for immunity, and EN 60950-1 for electrical equipment safety.

**CAUTION** This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

**WARNING** To comply with EN50130-4 requirements, a UPS should be employed when powering the camera from 24 V AC.

## Waste Electrical and Electronic Equipment (WEEE)



**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.

## Safety Instructions

Before installing or operating the unit, read and follow all instructions. After installation, retain the safety and operating instructions for future reference.

- HEED WARNINGS** - Adhere to all warnings on the unit and in the operating instructions.
- INSTALLATION**
  - Install in accordance with the manufacturer's instructions.
  - Installation and servicing should be performed only by qualified and experienced technicians to conform to all local codes and to maintain your warranty.
  - Do not install indoor rated models in outdoor locations.
  - Any wall or ceiling mounting of the product should follow the manufacturer's instructions and use a mounting kit approved or recommended by the manufacturer.
- POWER SOURCES** - This product should be operated only from the type of power source indicated on the marking label.
- HEAT** - Situate away from items that produce heat or are heat sources such as radiators, heat registers, stoves, or other products (including amplifiers).
- MOUNTING SYSTEM** - Use only with a mounting system recommended by the manufacturer, or sold with the product.

- ATTACHMENTS** - Do not use attachments not recommended by the product manufacturer as they may result in the risk of fire, electric shock, or injury to persons.
- ACCESSORIES** - Only use accessories specified by the manufacturer.
- CLEANING** - Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- SERVICING** - Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- REPLACEMENT PARTS** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards. Using replacement parts or accessories other than the original manufacturers may invalidate the warranty.

**CAUTION** Risk of explosion if Battery is replaced by an incorrect type. Dispose of used batteries in accordance with local laws.

## Before You Begin

The Honeywell HDZ Series True Day/Night IP PTZ dome camera is a high resolution network camera PTZ series designed for use in a wide range of applications. The camera supports H.264 compression and quad video streaming. Streaming options include:

- HDZ30HD, HDZ22HD(X), HDZ30HDE and HDZ22HDE(X):** Up to 30 frames per second (NTSC) or 25 fps (PAL) in 1080p resolution (1920 x 1080). Up to 60 fps (NTSC) or 50 fps (PAL) in 720p resolution (1280 x 720).
- HDZ30(X), and HDZ36E(X):** Up to 60 frames per second (NTSC) or 50 fps (PAL) at D1 resolution (720 x 486 NTSC; 720 x 576 PAL).

Before you begin, check that you have received all of the parts listed below. If any parts are missing or damaged, contact your dealer immediately.

### Indoor models: HDZ30HD HDZ22HD(X) HDZ30(X)

- PTZ dome camera
- Indoor mount kit
- Honeywell logo label
- Lubricant
- Installation CD
- Quick Installation Guide
- Torx driver

### Outdoor models: HDZ30HDE HDZ22HDE(X) HDZ36E(X)

- PTZ dome camera
- Outdoor mount kit
- Honeywell logo label
- Lubricant
- Installation CD
- M5 security and standard screws (1 each)
- Quick Installation Guide
- Torx driver

## Assembling the Camera

Camera assembly is quick and easy. To assemble the camera:

- Take the camera and all other components out of the packaging.
- Rotate and remove the protective cover bag from the camera body.
- Use the torx driver to remove the dome cover.
- Remove the foam and tape from inside the dome.
- Remove the lens cap from the camera lens.
- Use the torx driver to fasten the dome cover to the camera body.

**Note** Optional: Use the lubricant on the dome cover's rubber ring to make it easier to re-attach to the housing and seal the PTZ dome cover and housing without water coming in. Be careful to not get any lubricant on the dome as it may interfere with viewing PTZ images.

- Leave the protective film on the dome cover until installation is complete.

## Mounting the Camera

You can install the camera to a ceiling, wall, pole, parapet, or roof using the following Honeywell products:

Model No.	Description	Indoor	Outdoor
HDZINBKT	In-Ceiling Bracket	✓	
HDCM1	Ceiling Mount	✓	
HDXWM2	Wall Mount	✓	✓
HDPRM2	Parapet/Flat Roof Mount	✓	✓
HDXCMA1	Corner Mount Adapter for HDXWM2	✓	✓
HDXPMA2	Pole Mount Adapter for HDXWM2	✓	✓

Refer to the installation instructions included with the mounts for more detailed instructions on installing the mount and camera. See the following sections for more information on installing the HDZ series camera with the HDCM1, HDXWM2, and HDPRM2 mounts.

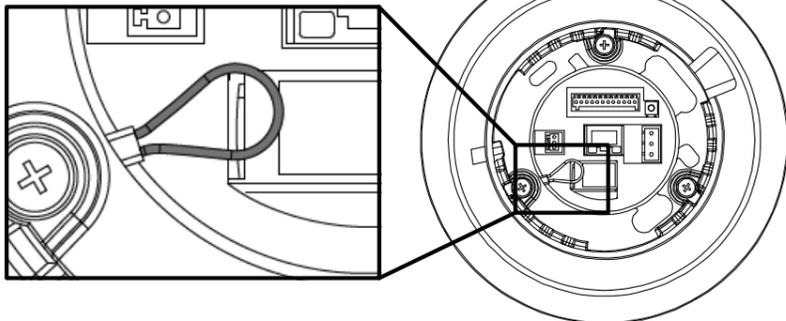
**Note** If you are installing the camera with the HDZINBKT in-ceiling bracket, follow the installation instructions included with the bracket.

## Using Safety Cable During Installation

The HDZ Series camera includes an eyelet for attaching a safety cable to securely fix the camera to the mounting structure. It is recommended that you install a safety cable (such as a 3/32-in. [2.4 mm] plastic coated aircraft cable) to secure the camera to the building structure. This will prevent the camera from falling during installation. The cable must be strong enough to support the weight of the camera (4.9 lb [2.2 kg] for the indoor model, 5.7 lb [2.6 kg] for the outdoor model).

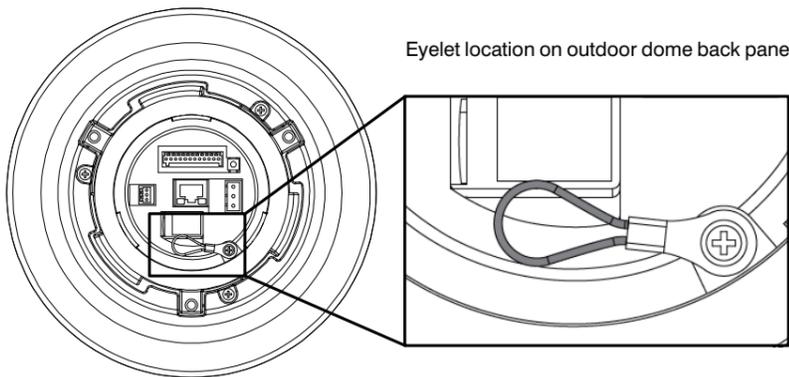
HDZ Indoor Model Back Plate

Eyelet location on indoor dome back panel



HDZ Outdoor Model Back Plate

Eyelet location on outdoor dome back panel



## Installing an Indoor Ceiling Mount (HDCM1)

The HDCM1 ceiling mount weighs 4 lb (1.8 kg) and can be installed directly to a load-bearing ceiling. HDCM1 has a maximum load rating of 26 lb (11.7 kg) and is for indoor use only.

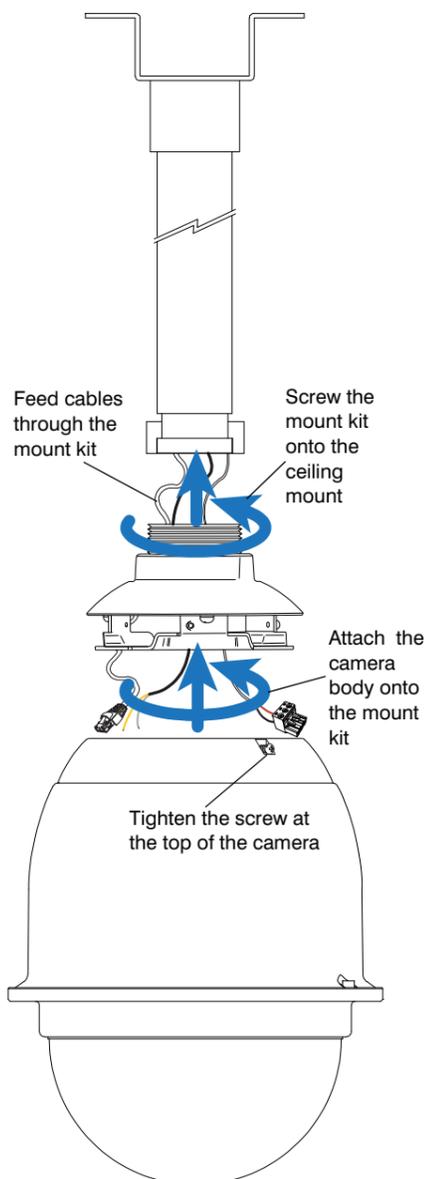
1. Ensure that the ceiling can support the combined weight of the camera and the mount (at least 8.8 lb [4.0 kg]).
2. Make a cable entry hole in the ceiling.
3. Feed the cables through the mount, leaving approximately 1 ft (0.3 m) extending past the end of the mount.

**Note** If you are using the recommended safety cable, feed it through the mount and attach one end to the camera eyelet and the other end to the building structure.

4. Attach the mount to the ceiling using appropriate hardware.
5. Screw the indoor mount kit to the ceiling mount.
6. Connect the cables to the camera (see [Cable Connections](#), below). If you are using a Micro SD card, install it before connecting the cables.

**Note** Check that the eyelet cable connection is secure and carrying all of the load of the camera after making all cable connections.

7. Attach the camera to the mount kit, and then tighten the security screw on the top of the camera.



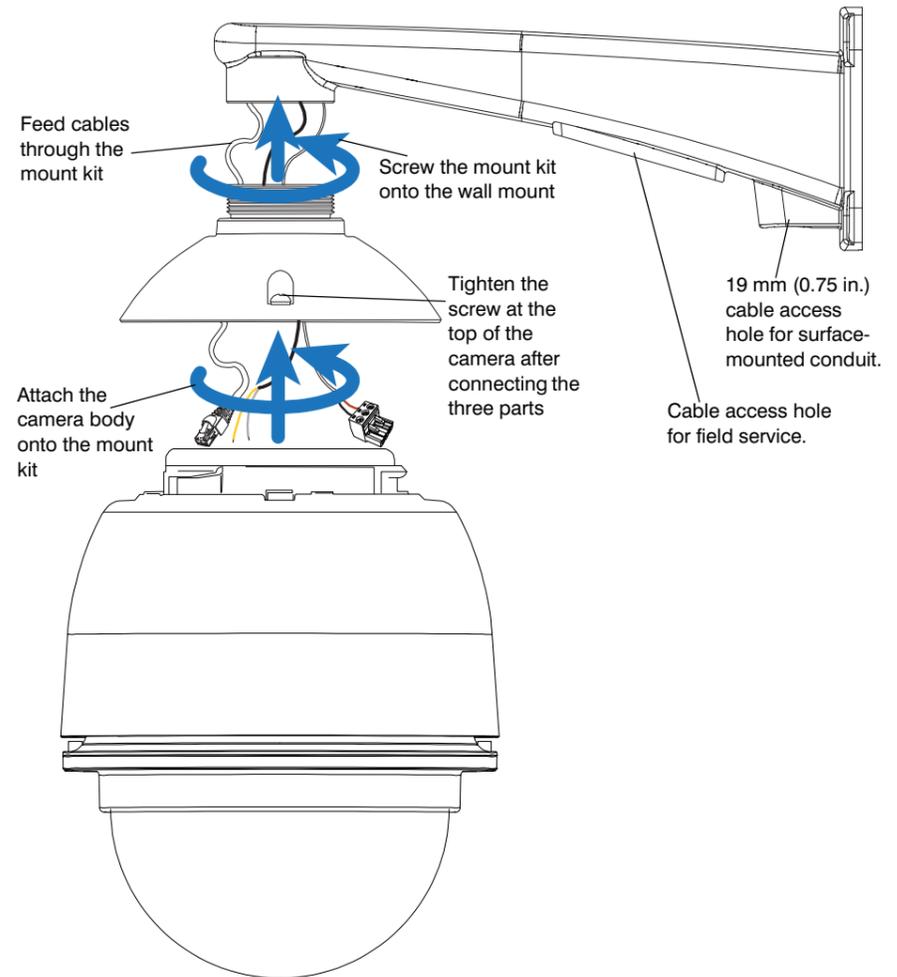
## Installing an Indoor/Outdoor Wall Mount (HDXWM2)

The HDXWM2 wall mount weighs 3.2 lb (1.45 kg) and can be installed directly to a load-bearing wall, or to a corner or pole using an appropriate adapter. The mount has a maximum load rating of 26 lb (11.7 kg) and can be installed indoors or outdoors.

1. Ensure that the mounting surface can support the combined weight of the camera and the mount (at least 8.9 lb [4.05 kg]).
2. If you are using a corner or pole adapter, feed the cables through the cable access hole of the adapter, and then attach the adapter to the mounting surface using appropriate mounting hardware.
3. Feed the cables through the mount, leaving approximately 1 ft (0.3 m) extending past the end of the mount.

Optionally, you can feed the cables through the 0.75 in. (19 mm) conduit hole at the base of the mount arm (see illustration).

**Note** If you are using the recommended safety cable, feed it through the mount and attach one end to the camera eyelet and the other end to the building structure.



4. Attach the mount to the wall or, if applicable, to the adapter using appropriate mounting hardware.
5. For outdoor wall mount installations, apply sealant (not supplied) to any gaps between the mount and the mounting surface, and ensure that the conduit hole plug is in place when the conduit hole at the base of the mount arm is not in use.
6. Screw the mount kit into the wall mount.
7. Connect the cables to the camera (see [Cable Connections](#), below). If you are using a Micro SD card, install it before connecting the cables.

**Note** Check that the eyelet cable connection is secure and carrying all of the load of the camera after making all cable connections.

8. Attach the camera to the mount kit, and then tighten the security screw on the top of the camera.

**Note** Optional: Use the lubricant on the dome cover's rubber ring to make it easier to re-attach to the housing and seal the PTZ dome cover and housing without water coming in. Be careful to not get any lubricant on the dome as it may interfere with viewing PTZ images.

## Installing a Parapet/Flat Roof Mount (HDPRM2)

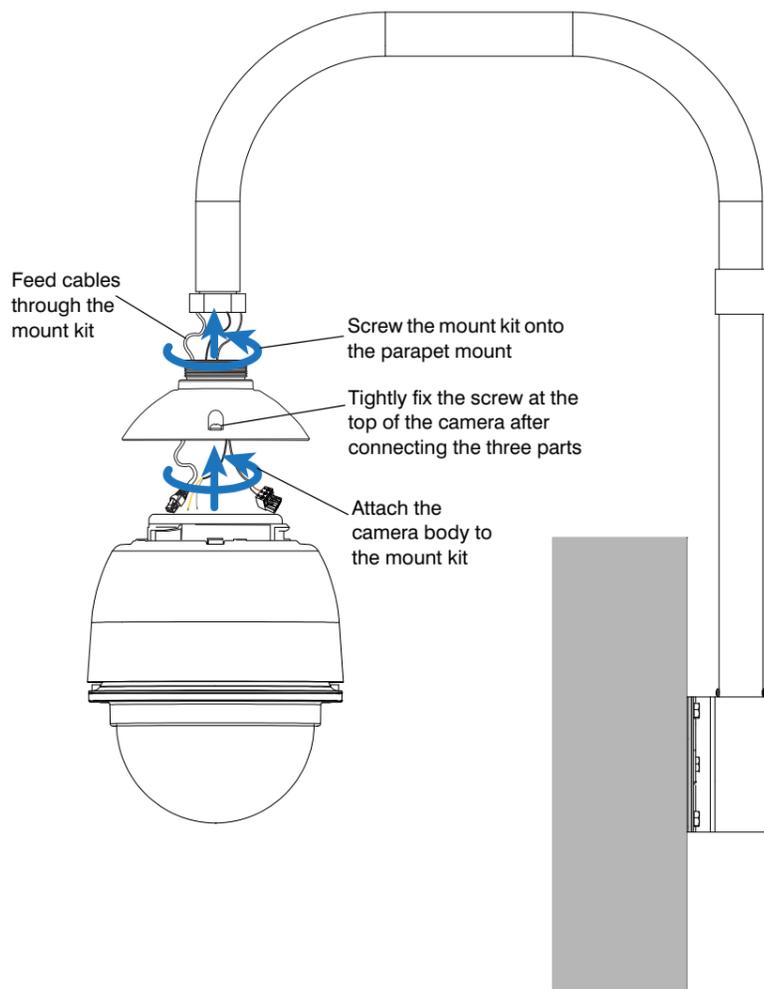
The HDPRM2 parapet/flat roof mount weighs 22 lb (10.2 kg) and can be installed directly to a vertical (parapet) or horizontal (flat roof) load-bearing surface. The mount has a maximum load rating of 20 lb (9.1 kg) and can be installed indoors or outdoors. The mount can withstand winds up to 75 mph (121 km/h) when properly fastened to a support structure.

1. Ensure that the mounting surface can support the combined weight of the camera and the mount (at least 28 lb [12.8 kg]).
2. Feed the cables through the mount, leaving approximately 1 ft (0.3 m) extending past the end of the mount.

**Note** If you are using the recommended safety cable, feed it through the mount and attach one end to the camera eyelet and the other end to the building structure.

3. Attach the mount to the mounting surface using as many of the mounting holes as possible (a minimum of five fasteners on each side of the mounting plate is recommended).

- Apply sealant (not supplied) to the bottom of the vertical pipe and around the bolt holes to prevent water or other contaminants from entering the mount.
- Screw the mount kit to the parapet/flat roof mount.
- Connect the cables to the camera (see [Cable Connections](#), below). If you are using a Micro SD card, install it before connecting the cables.



**Note** Check that the eyelet cable connection is secure and carrying all of the load of the camera after making all cable connections.

- Attach the camera to the mount kit, and then tighten the security screw on the top of the camera.

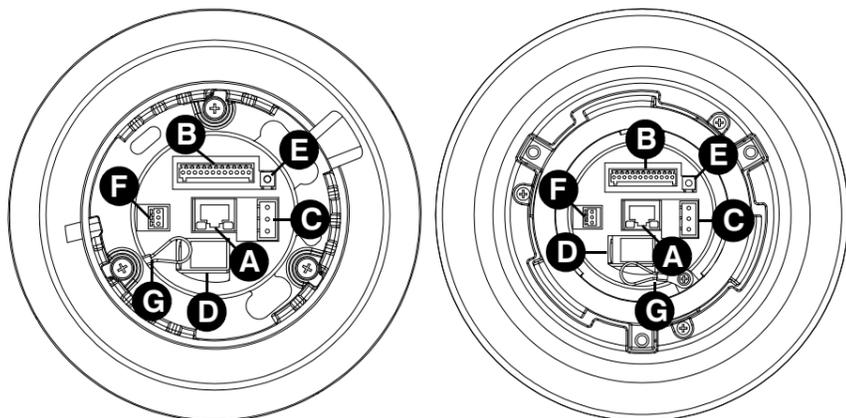
**Note** Optional: Use the lubricant on the dome cover's rubber ring to make it easier to re-attach to the housing and seal the PTZ dome cover and housing without water coming in. Be careful to not get any lubricant on the dome as it may interfere with viewing PTZ images.

## Cable Connections

Before connecting the cables, take a minute to familiarize yourself with the camera's back plate connectors, switches, and buttons, as shown in the figures and table below.

HDZ Indoor Dome Cameras

HDZ Outdoor Dome Cameras



<b>A</b>	RJ45 connector	<b>E</b>	Factory reset button <sup>a</sup>
<b>B</b>	Alarm input/output <sup>b</sup>	<b>F</b>	Audio input/output <sup>b</sup>
<b>C</b>	Power <sup>b</sup>	<b>G</b>	Eyelet for attaching security cable
<b>D</b>	Micro SD memory card slot <sup>c</sup>		

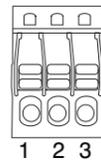
a. Press the factory reset button to restore the factory default settings to the camera.

b. Alarm, power, and audio connections are made with removable connectors.

c. It is recommended that you use a high quality micro SD card (up to 64 GB; microSDXC 64 GB support tested with SanDisk SDXC 64 GB) that has a class 10 minimum write speed (8 GB MLC/16 GB MLC or TLC/32 GB TLC). Insert the card before finishing camera installation. The card must be formatted using the Honeywell Web GUI before it can be used for recording.

## Connecting Audio

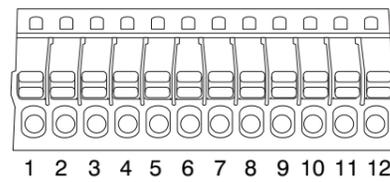
Refer to the following figure and table when making audio connections to your camera.



Pin	Definition
1	Line out
2	GND
3	Line in

## Connecting Alarm Inputs/Outputs

Refer to the following figure and table when making alarm connections to your camera:



**Inputs (×4)** 5 V, 4700 ohms, pull up

**Outputs (×2)** Relay output, 120 V AC/30 V DC, 3 A MAX

**Note** Use alarm outputs for SELV circuits only.

Pin	Definition	Pin	Definition	Pin	Definition
1	Alarm Out NO 1	5	Alarm Out NO 2	9	Alarm In 4
2	Alarm Out NC 1	6	Alarm Out NC 2	10	Alarm In 3
3	Alarm Out COM 1	7	Alarm Out COM 2	11	Alarm In 2
4	GND	8	GND	12	Alarm In 1

## Connecting the Network Cable

To power the camera, either PoE or a 24 V AC power connection can be used. If using PoE, either a switch or PoE injector meeting the PoE+ standard (30 W) or High Power over PoE (60 W), depending on the model, must be employed (see table below).

HDZ Camera Model	PoE Requirement
HDZ22HD(X), HDZ30(X), HDZ30HD	PoE+ (30 W)
HDZ22HDE(X), HDZ30HDE, HDZ36E(X)	PoE++ (60 W)

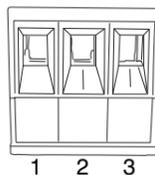
Connect an Ethernet cable to the RJ45 connector on the back plate of the camera (see figure above). The Ethernet cable should not be longer than 328 ft (100 m). After you have connected the cable, check the status of the LED indicators on the RJ45 connector. (If the LEDs are not lit, re-check the connection.)

- The green LED indicates a network connection.
- The orange LED indicates network activity.

**Note** You may need to use a crossover cable if you are connecting the camera directly to a PC.

## Connecting Power

Refer to the following figure and table when connecting power to your camera through the main power adapter.



Pin	Definition
1	24 V AC
2	FG
3	24 V AC

**Note** Please use the **minimum** power adapter for:

HDZ30(X): 24 V AC, ~1.0 A MAX / PoE+, 21.0 W

HDZ36E(X): 24 V AC, ~3.3 A MAX / PoE++, 57.0 W

HDZ22HD(X), HDZ30HD: 24 V AC, ~1.3 A MAX / PoE+, 25.5 W

HDZ22HDE(X), HDZ30HDE: 24 V AC, ~3.3 A MAX / PoE++, 60.0 W

**Important Note:**  
Regarding PoE Operation of models HDZ22HDE(X), HDZ36E(X) and HDZ30HDE

A high power PoE injector capable of supplying at least 60 W is required for proper operation of outdoor camera model HDZ22HDE(X), HDZ36E(X) and HDZ30HDE as PoE to IEEE802.3af or IEEE802.3at will not support these models.

## Before Logging In to the Camera

The Honeywell Viewer software will be automatically installed on your PC when you connect to the camera. Before logging in to the camera, ensure that Internet Explorer is set up to run ActiveX controls. You can enable ActiveX controls manually or by setting the browser's security settings to the default level.

### ActiveX Controls and Plug-ins Settings

1. Open Internet Explorer.
2. On the **Tools** menu, click **Internet Options**, and then click **Security**.
3. Click the **Internet** icon, and then click **Custom Level**.
4. Set all **ActiveX controls and plug-ins** to **Prompt** or **Enable**, and then click **OK**.

### Internet Security Level

1. Open Internet Explorer.
2. On the **Tools** menu, click **Internet Options**, and then click **Security**.
3. Click the **Internet** icon, click **Default Level** and click **OK**.
4. Close the browser window and open a new one to access the camera.

## Logging In to the Camera

1. Power up the camera (see [Connecting Power on page 3](#)).
2. Insert the installation disc into your disc drive and navigate to the Honeywell Device Search folder.

If you want, you can copy the Device Search executable file to your computer desktop (or other location) to run the Device Search application without the installation disc.

3. Double-click the Honeywell Device Search icon (  ) to run the application on your PC.



4. Click **Device Search** to find the camera with the Honeywell Device Search tool.  
By default, the camera has a dynamically assigned IP address (DHCP). After finding the camera with the Device Search tool, you can assign a static IP address to the camera, or otherwise modify the network settings, as needed (refer to the [HDZ Series IP PTZ Dome Camera User Guide](#) for more information).
5. Double-click the discovered camera, or enter the camera's IP address into the address bar of your web browser.
6. In the Login dialog box, enter the default user name (**admin**) and password (**1234**), and then click **OK**.

**Note** The user name is case sensitive.

## Using Honeywell Viewer for the First Time

When you connect to the camera, a request to install an ActiveX control will appear in the browser's information bar.

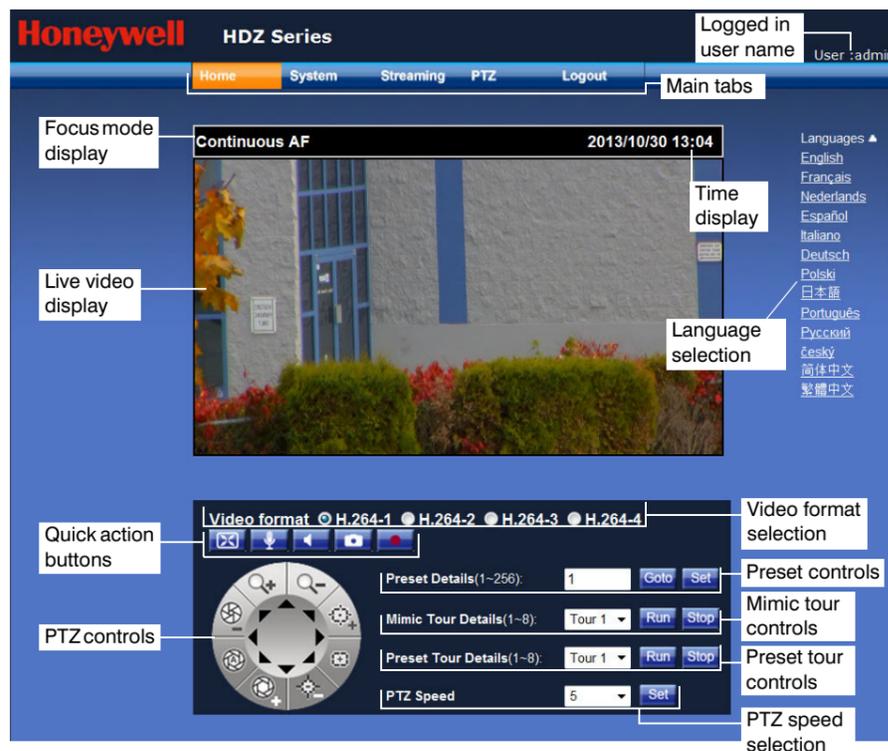
1. Right-click the information bar, and then click **Allow ActiveX control** to install the ActiveX control.
2. In the Security Warning window, click **Install** to start the Honeywell Viewer software installation.
3. When the installation is complete, click **Finish** to close the installation window.

The Honeywell Viewer is now installed and the Viewer home page will open in your browser when you log in to the camera. If the Viewer home page does not appear, check your browser's security settings and make sure that ActiveX controls and plug-ins are enabled.

**Note** If the live video pane does not appear in the Honeywell Viewer, you may need to upgrade the software. To upgrade the software, uninstall Honeywell Viewer using Control Panel, delete the temporary Internet Explorer files, and then go to the Honeywell website and download and reinstall Honeywell Viewer on your PC.

## Configuring the PTZ Dome

The following figure shows the basic controls on the Honeywell Viewer home page:



Refer to the [HDZ Series IP PTZ Dome Camera User Guide](#) for detailed instructions on how to configure the camera with the Viewer.

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