Mini Dome IP Camera

Installation Guide

LATCH®

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Things you should know

- The Latch Camera must be installed and protected in a location that is not easily accessible and away from possible impacts or heavy vibrations.

  For example, look to install in a location where the surveillance cameras are looking down or installed in high positions such as on a ceiling or wall, or at least 10 feet (3 meters) above the ground.

- Maintenance and repair work must always be carried out by a Latch Certified Channel Partner.

  Disconnect power from the unit when performing a maintenance task.

Included in the Box

- Mini Dome IP Camera
- L Tool
- Mounting Screws
- Mounting Template Sheet

Not Included in the Box

- Ethernet cable

Tools Required

- #2 Phillips head screwdriver
- TR10 Torx security screwdriver
- 1”-1.5” drill bit for cable routing hole

Product Details

Details and recommendations for power, wiring, and product specifications.

Wiring

PoE

Firewalls

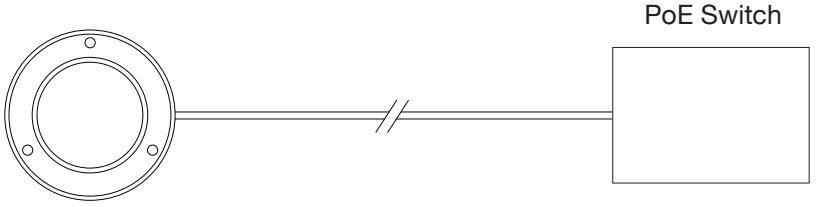
If camera video feed issues are occurring and the network has a firewall, please move the camera to a network without a firewall to repeat testing.

If the camera must be installed permanently on a firewalled network, check that the following firewall settings are set as follows (if the firewall has them):

Enable Fragmented Packet Handling is checked
Ignore DF Bit is unchecked
Enable NAT Traversal is checked

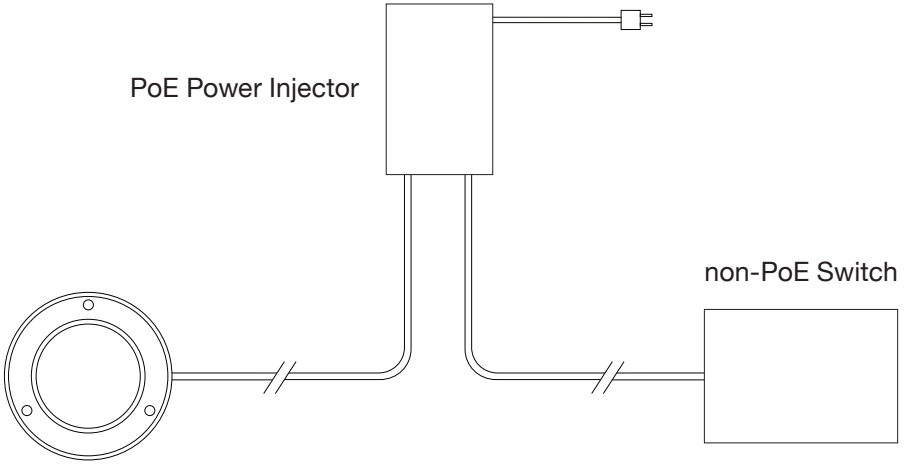
Firewalls when using PBX receivers

If the PBX that the SIP Server communicates with is located behind the firewall then SIP transformations should be disabled in most deployments. Consult with your VoIP vendor.



When using a PoE-enabled switch

The Latch Camera is PoE-compliant, allowing transmission of power and data via a single Ethernet cable. Connect the camera to a PoE enabled switch via Ethernet cable.



When using a non-PoE switch

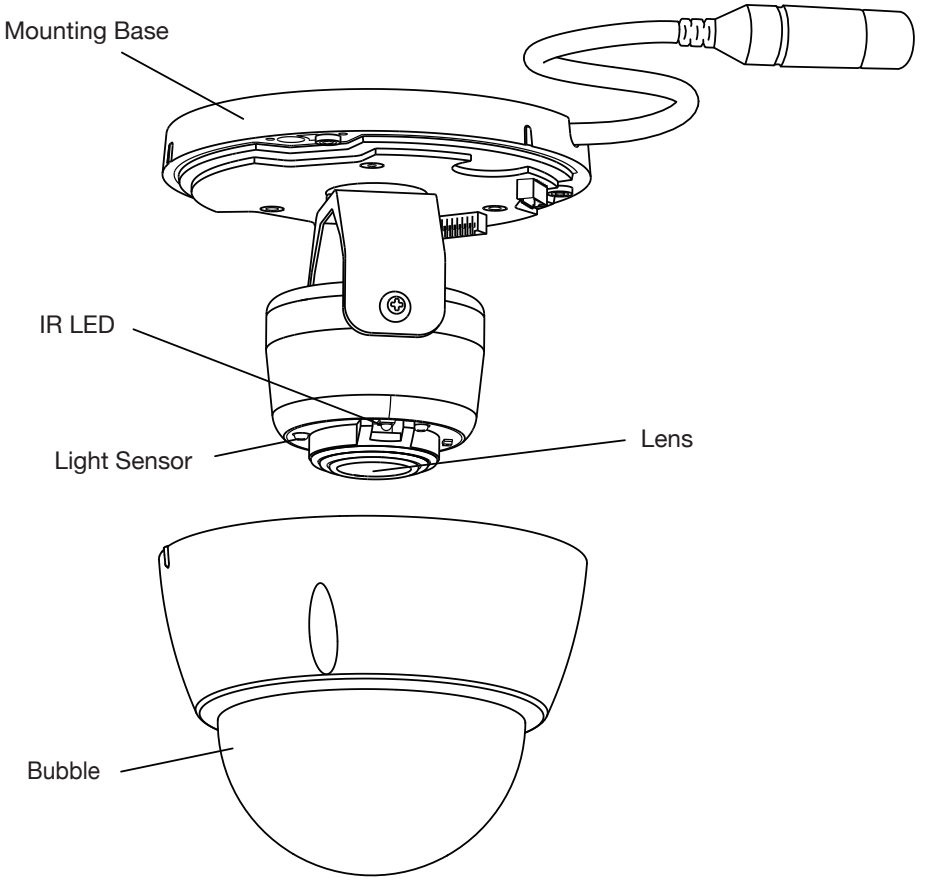
Use a PoE power injector to connect between the Latch Camera and a non-PoE switch.

Note:

1. Connect the camera to a PoE switch only and avoid external power supplies.
2. For PoE connection, use only UL listed I.T.E. with PoE output.

Product Details

Inner View



Product Details

IR LEDs. These are used to provide illumination for night time viewing. Ensure that the two IR LEDs are not obstructed beneath the transparent dome bubble.

Light Sensor. This is a hardware sensor to detect lux. Ensure that the light sensor is not obstructed beneath the transparent dome bubble.

Lens. No physical adjustment is required for the lens. Ensure that the lens cover remains clean.

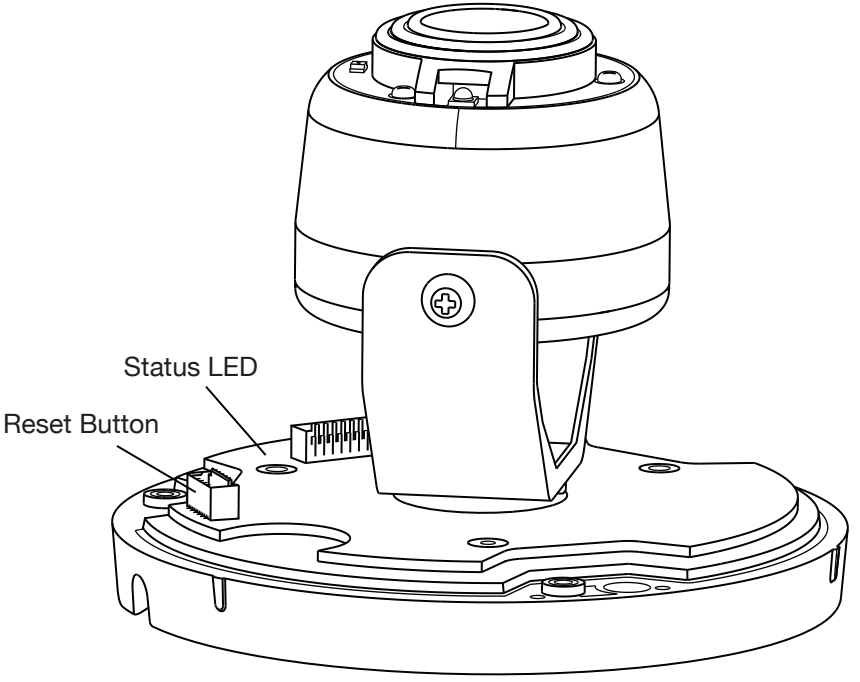
LAN Port. Use a standard Ethernet cable (not included) to connect the LAN port of the supplied cable to the gateway. This port supports PoE which provides both power and network connectivity via a single Ethernet cable.

Status LED (Green, Amber, Blue). The color statuses are provided in a chart in the Troubleshooting section at the end of this document.

Note: If data is being transmitted via LAN, the color of the LED is blue.

Product Details

Reset Button

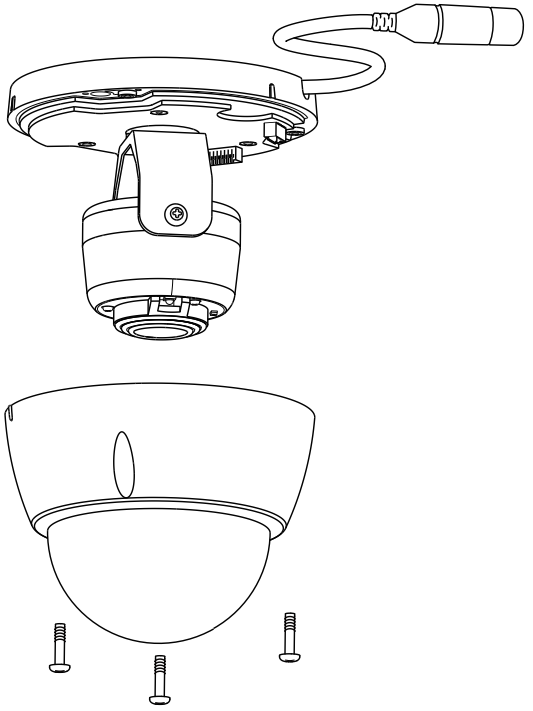


Reset button. When pressed and held over 15 seconds, the camera reboots and the settings are restored to default values.

Installation

Follow these steps to proceed with installation.

1.



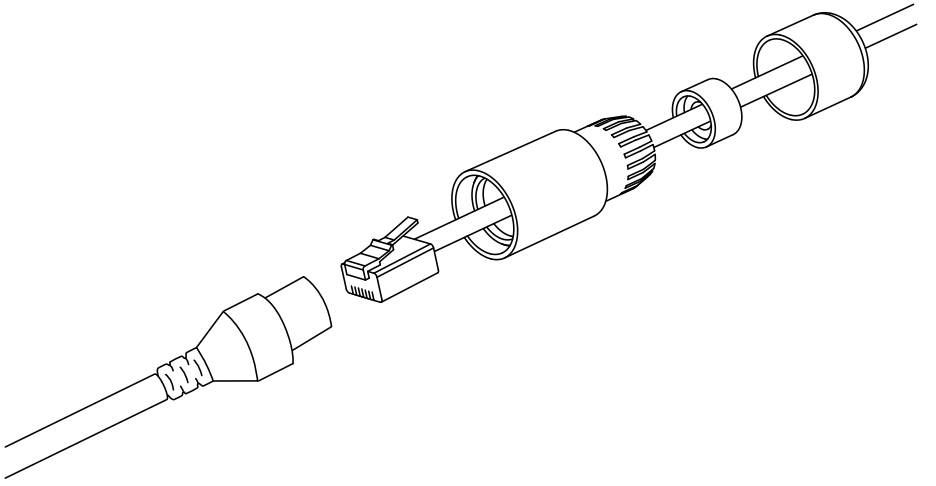
L Tool

Remove Bubble and Protective Foam.
Use the L tool to remove the three retaining screws and bubble.
Remove the protective foam.

Note: Leave the bubble detached until after camera has been mounted.

2.

Note: Please use the water-proof caps where the Ethernet cable needs to be run outdoors. Tighten up the caps after connecting the Ethernet cable to the port of the camera.

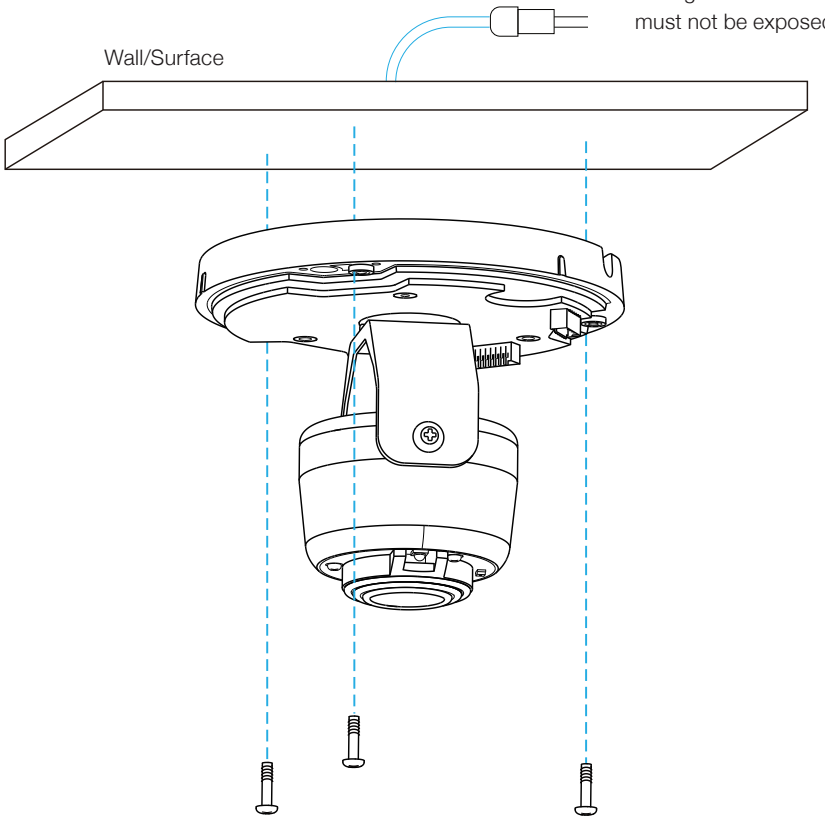


Power up.
Connect a standard Ethernet cable (not provided) to the LAN port of the camera cable and the LAN port on the gateway.

Check the Status LED.
The Status LED should be solid green during startup, which takes 60 to 90 seconds. After startup is completed, the LED begins to blink green. For location of the Status LED, refer to figure in Step 3.

3.

Note: Wires must be sealed/covered by conduit or tube when installed outdoors. Wires must be installed through wall/surface and must not be exposed.



Please ensure the Mini Dome Camera is configured and added to the network before mounting.

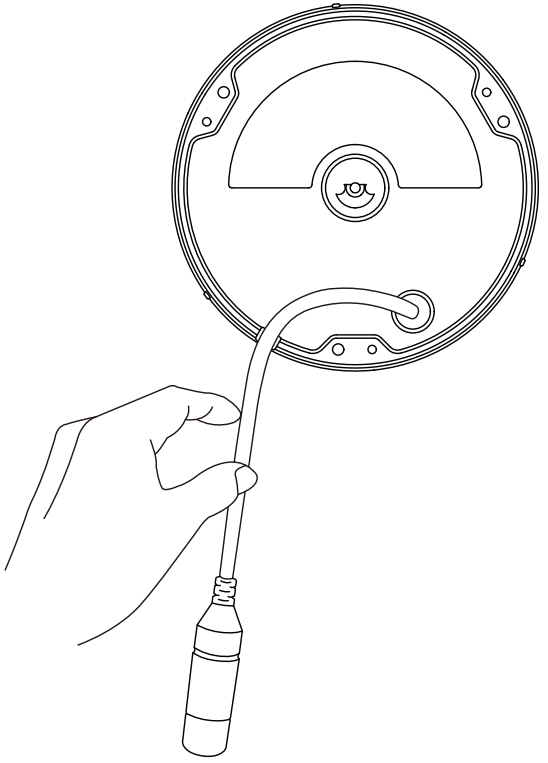
Mounting the Camera.

Identify the location where you would like to mount the camera. Using the mounting template included in the box as a guide, drill three mounting holes in the ceiling.

If using the anchors, insert them into the mounting holes.

Align the three mounting holes of the camera stand with the three holes, and then mount the camera stand onto the ceiling or wall using the provided screws.

4.



Note: The camera label will be adhered to the back of the camera.

To secure the bubble, please use the 3 included screws: 55mm (W) x 100mm (L).

Attach the bubble to the camera, and then secure it with the three screws by using the L tool. Make sure that the camera is firmly secured to the ceiling or wall.

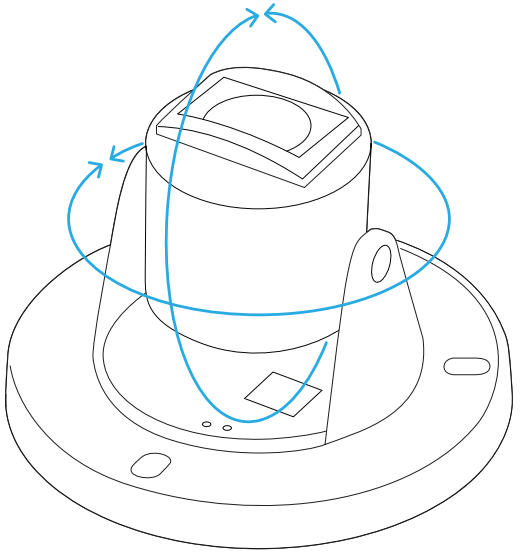
Note: Use the alignment marks to properly align the camera and bubble while attaching them together.

Mounting Suggestion.

The camera is very sensitive to motion and may even trigger a motion event with the movement of a small tree, bush or other object in the wind.

For this reason, be sure to mount the camera in a location where its field of view does not include small trees, bushes or other objects that could move and unintentionally trigger a motion event.

5.



Rotate or tilt the Latch Camera for desired optimal field of view.

6.

Scan the QR code on the label with the Latch Manager App and follow the steps in the app to configure.

Features

Dual Video Support. The camera supports H.264 and MJEPG video compression.

PoE Support. You can use PoE (Power over Ethernet) to provide power to the Mini Dome Camera, so only a single cable connection is required.

IR LED Support. The two built-in infrared LEDs can provide illumination for up to 20 meters.

Built-in Heater. The built-in heater ensures that the camera will continue to operate even in extremely cold outdoor climates. The heater turns on when the temperature falls below 42°F (6°C).

User Authentication. If desired, access to live video can be restricted to known users. Users will have to enter their username and password before being able to view the video stream.

Password-Protected Configuration. Configuration data can be password protected, so that it only can be changed by the Network Camera Administrator.

Specifications

Dimensions (DxH)
4.33" x 3.62" (110mm x 92mm)

Lens
F2.0 & DFOV 114∞

Video Compression
H.264 and MJPEG

Image Resolution
1080p

Operating Temperature
-4∞F to 122∞F (-20∞C to 50∞C)

Storage Temperature
-40∞F to 158∞F (-40∞C to 70∞C)

Network Protocol
TCP/IP, DHCP, SMTP, NTP, HTTP, FTP, RTP, RTSP, UPnP

Button
1 Reset Button

Status LED
1 Three-colored LED for Power/Network/Heater

IR LEDs
2

Micro-SD Slot
1

Power
PoE (Power over Ethernet)

Troubleshooting

- Make sure the camera is connected to power.
- If data is being transmitted via LAN, the color of the LED is blue.

Color	LED Status	Description
Green	On	Powered on.
	Off	No power.
	Slow blinking	System is booting up.
	Fast blinking	System is downloading.
Amber	On	Firmware upgrade failure or heater is on.
	Slow blinking	Device firmware is updating.
	Fast blinking	System has reset to default.
Blue	On	Powered on.
	Slow blinking	Data is transmitting/receiving via the network.

Cleaning Instructions

- If the camera image or video feed appears blurry, you should clean the lens and dome. Please follow the instructions below for proper cleaning.

Tools needed

A lint free cloth and glass cleaner.

Instructions

1. Remove the three screws holding the dome on
2. Clean the inside of the dome using the glass cleaner and cloth
3. Clean the lens using the glass cleaner and cloth
4. Re-attached the dome
5. Clean the outside of the dome using the glass cleaner and cloth

FCC Statement

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 equipment into an outlet on a circuit different from where the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This device complies with Part 15B 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.

CE Approvals

The Mini Dome Camera and the Ethernet Mini Dome Camera meet the guidelines of the European Union and comply with the 2014/30/EU and 2014/35/EU directives, including the following standards:

- EN62368-1
- EN55032/EN55035

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

This equipment is to be connected only to PoE networks without routing to the outside plant.

This equipment is intended to be supplied by an UL Listed PoE power supply suitable for use at Tma 50 degree C whose output meets ES1 (or SELV), LPS (or PS2) and is rated 48 Vdc, 0.25 A min. The external power supply device should be connected to a socket-outlet with earthing connection.

If you require additional assistance, please contact the retailer for further information.

This product is UL and cUL certified and comply with UL62368-1 Information Technology Equipment applicable requirement.

Note: Minimum network speed must be at least 10Mbps as tested by a network testing device.

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