




**THERMALTM
RADAR**

Visionary Thermal Detection

INSTALLATION GUIDE

More Information :

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Introduction

This document is intended to serve as a guide for installing Thermal Radar™ and/or Hydra™ Systems.

The steps in this guide are required before configuring Thermal Radar™ and the associated Pan-Tilt-Zoom (PTZ) camera.

Upon successful installation of the system, refer to the Thermal Radar™ Configuration Guide,
or the Thermal Radar™ Settings Guide.

If you have any additional questions, please contact our support team using the information below:

support@thermalradar.com | **1 (801) 762-6800** | **thermalradar.com**



Installation and Configuration Steps

The following 14 steps serve as a quick reference for installing Thermal Radar™ and Hydra™ systems. For detailed instructions, refer to the **Thermal Radar™ Configuration Guide**.

SECTION

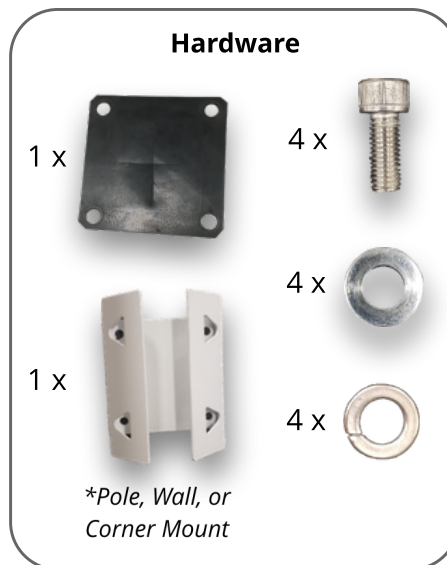
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Step 1: Install Desired Mount onto Hydra Base Box

Install the provided pole mount, wall mount, or corner mount onto the base box using the included mounting plate hardware: four (4) socket cap bolts, four (4) flat washers, four (4) lock washers, and a rubber gasket.

Note: The mounting plate hardware may vary depending on the mount used.





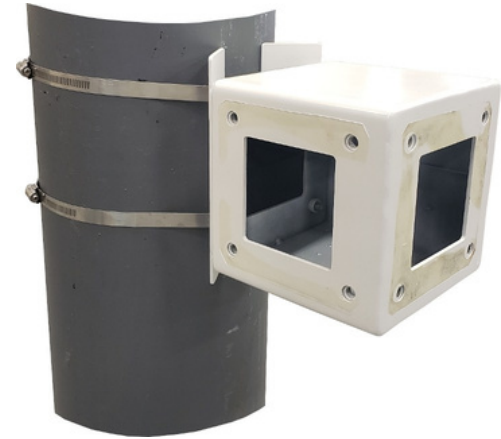
Step 2: Mount Base Box to Pole or Mounting Surface

Mount the base box to a pole or other mounting surface using the provided hose clamps.

Note: The provided hose clamps are suited for poles 9 3/8" to 12 1/4". For larger poles, obtain larger clamps.

Hardware

2 x

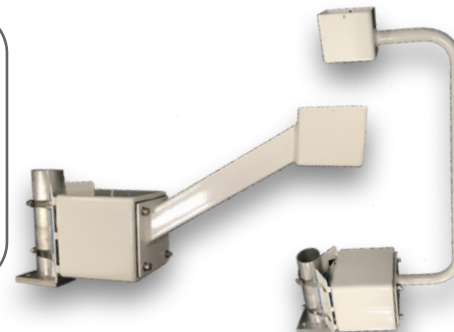
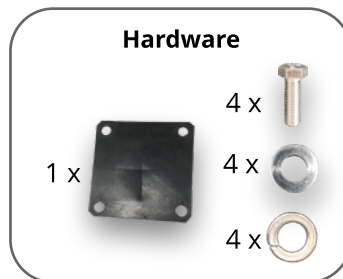




Step 3: Mount Arm or Gooseneck to Base Box

A. Place the rubber gasket between the mounting arm and the base box.

B. Use the four (4) bolts and washers to secure the mounting arm to the base box.



Step 4: Level Camera Box

Position a level on top of the camera box and adjust the mount as needed.

Caution: Failure to level the camera box will negatively impact Thermal Radar's detection analytics.





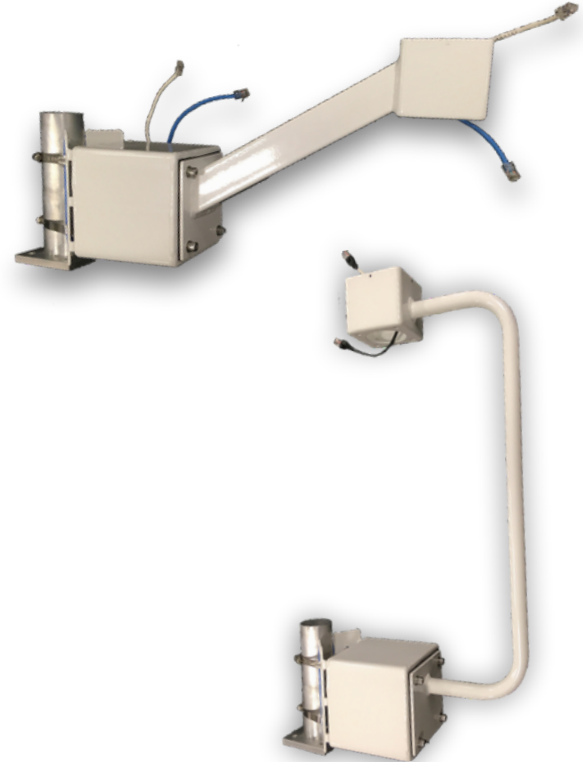
Step 5: Run Network Cables

Required: Two (2) Cat5e (or Cat6) network cables (one for Thermal Radar™ and one for the PTZ)

Optional: One(1) 18/2 cable to power the PTZ (for non-PoE installations)

- Run the wires into the base box and through the mounting arm to the camera mounting box.
- Leave sufficient slack to install RJ-45 connectors and have enough cable remaining to connect each camera.

Note: Please reference the PTZ manufacturer's guide for additional camera-specific installation instructions (for all steps in this guide).





Step 6: Terminate PTZ Network Cables

- Terminate the PTZ network cable based on PTZ manufacturer and industry standards.
- Use weather-tight connectors, as necessary, or based on PTZ manufacturer recommendations.

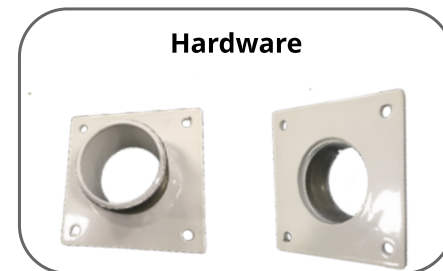
Note: The Thermal Radar™ network cable will not be terminated until Step 12.



Step 7: Install PTZ Mounting Adapter and Plate

Connect the PTZ manufacturer-provided adapter to the Thermal Radar™ provided mounting plate.

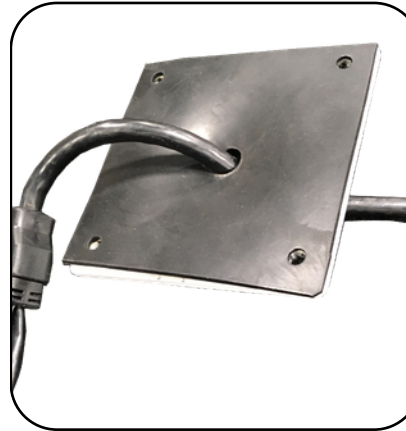
Note: PTZ mounting varies depending on the camera brand and model.





Step 8: Attach PTZ to the Mounting Adapter and Plate

- A. Attach the PTZ to the mounting adapter, and secure.
- B. Run the PTZ network cable through the provided mounting plate rubber gasket.
- C. Attach the rubber gasket to the PTZ mounting plate, in preparation for PTZ installation to the mount.

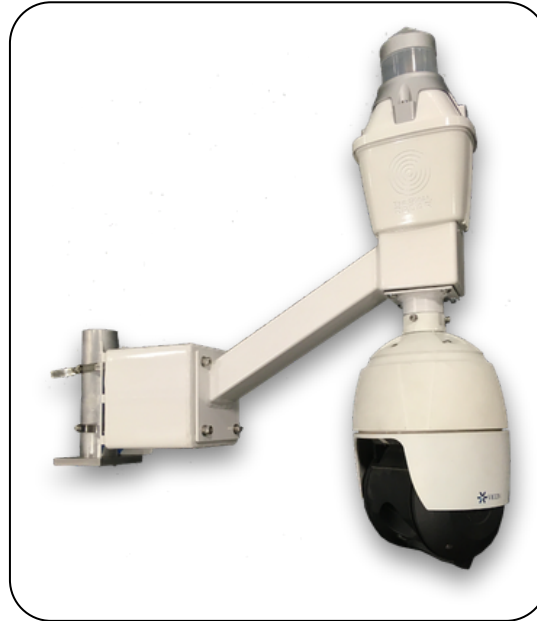
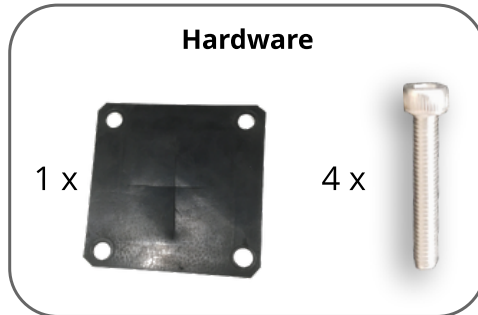




Step 9: Mount PTZ to Standard or Gooseneck Arm

A. Attach the PTZ to the camera box using the provided four (4) bolts.

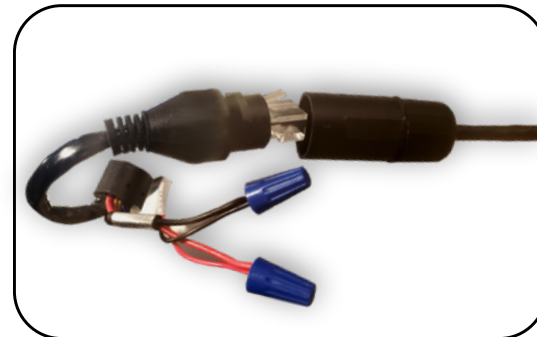
B. Verify the rubber gasket is evenly placed between the mounting plate and the camera box





Step 10: Connect Cables to PTZ

- A. Connect the network cable from the PTZ to the network cable in the camera box.
- B. If the PTZ is not PoE capable, or the PTZ requires a separate power source, connect the power wires to the PTZ.



Step 11: Place the PTZ Cabling into the Camera Box

- A. Secure the PTZ cabling inside the camera box.
- B. Allow the Thermal Radar™ network cable to remain outside the camera box, as it will be secured in Step 12.





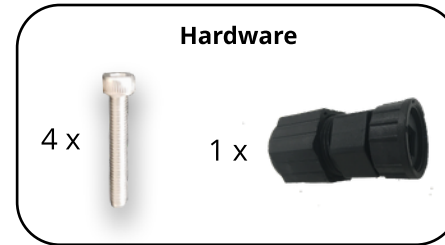
Step 12: Mount Thermal Radar™

A. Terminate the Cat5e (or Cat6) network cable and install the weather-tight connector.

B. Connect the network cable to the bottom of the Thermal Radar™ camera.

C. Place the Thermal Radar™ camera on top of the camera box, such that the holes on the camera base plate align with the holes on the camera box.

D. Use the provided four (4) bolts to secure the Thermal Radar™ camera by threading the bolts through the Thermal Radar into the camera box.





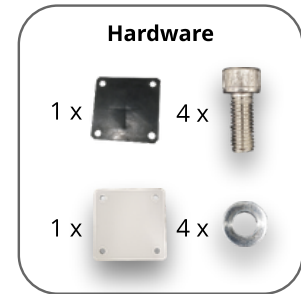
Step 13: Check IR Lens Window

Verify the IR window has not been wrinkled or damaged during shipping or installation.



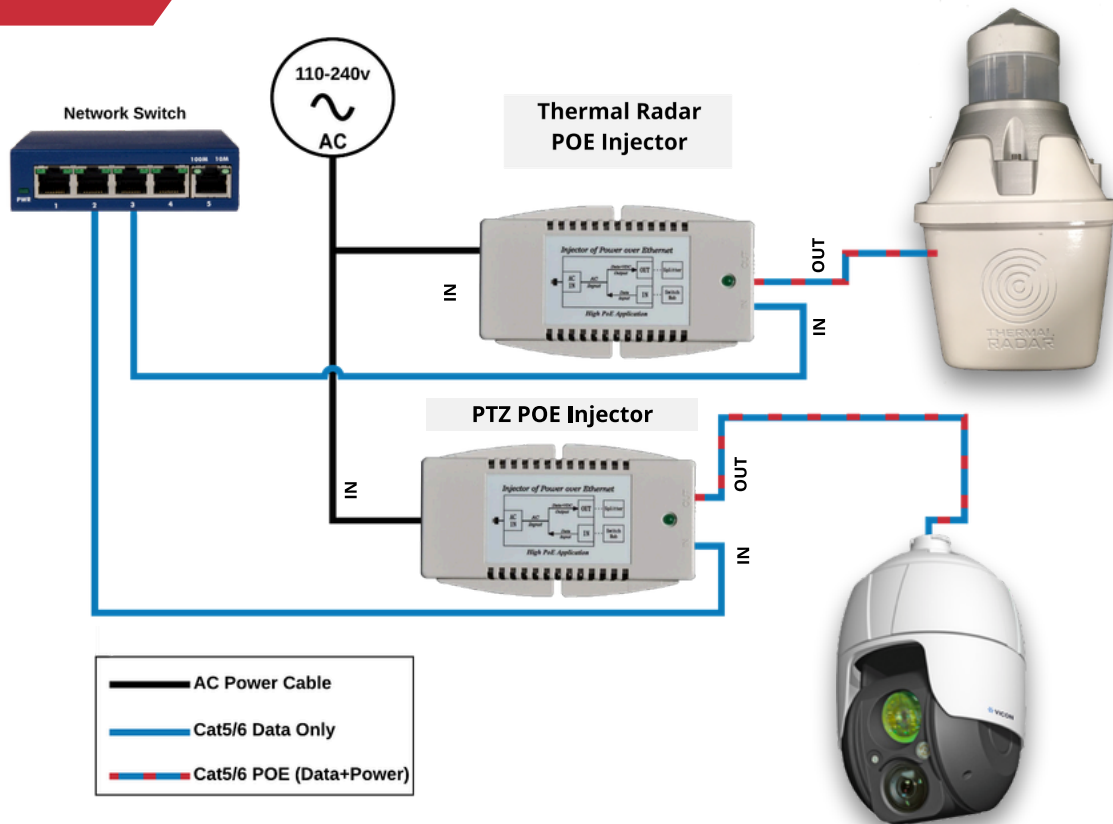
Step 14: Install Mounting Box Plate Covers

- Use the provided rubber gasket and four (4) bolts & flat washers to secure the plate covers to the open sides of the mounting box.
- Ensure the rubber gasket is evenly spaced between the mounting plate and the mounting box, before tightening the bolts.
- Verify all gaskets on the base box and camera box are properly seated and provide a solid seal, such that moisture does not enter the boxes.





System Wiring Diagram and Instructions





Step 1: Wire Thermal Radar™ for Network and Power

- A. Connect the Thermal Radar™ network cable to the OUT (Power + Data) port of the PoE injector.
- B. Use a Cat5e (or Cat6) network cable to connect the IN (Data Only) port of the PoE injector to the network switch.
- C. Connect the Thermal Radar™ PoE injector to an AC power source.
- D. After applying power to the PoE injector, verify Thermal Radar™ turns to its home position and begins continuously rotating (after approximately 30 seconds).

Step 2: Wire PTZ for Network and Power

- A. Connect the PTZ network cable to the OUT (Power + Data) port of the PoE injector.
- B. Use a Cat5e (or Cat6) network cable to connect the IN (Data Only) port of the PoE injector to the network switch.
- C. Connect the PTZ PoE injector to an AC power source. D. After applying power to the PoE injector, verify the PTZ moves / begins its start-up process.



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