



# Quick Installation Guide

PMAX-0233 / PMAX-0234





2025/08/04



**ACTi**  
Connecting Vision

## Package Content

The carton should contain the following items:

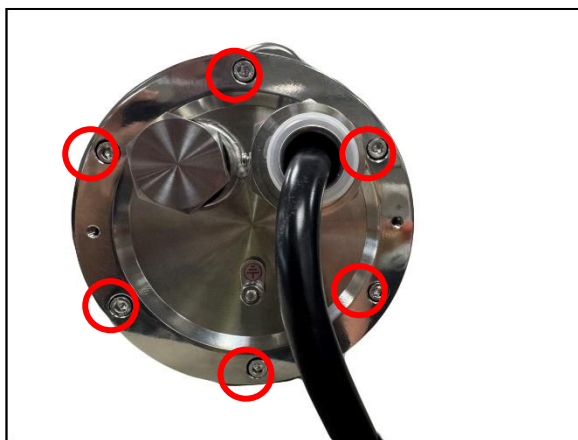
Housing	Camera Screws & Washers	Cover Screw Wrench
		
<p>Tray Screw Wrench (PMAx-0233 only)</p>		
		

**NOTE:** The pictures are for reference only; actual items may slightly vary in appearance.

## Prepare the Housing

This installation should be completed by a qualified installer and should conform to all local codes and regulations.

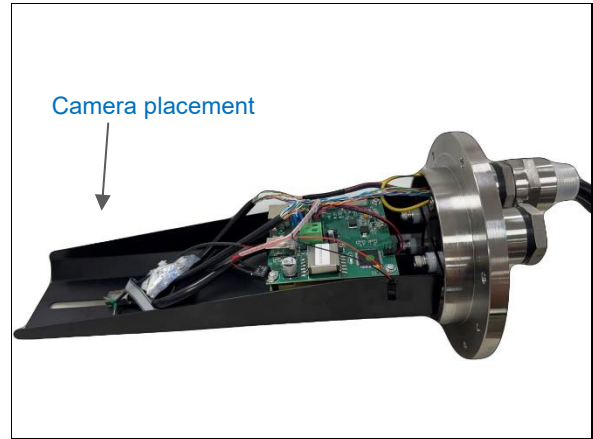
1. Open the housing using the bundled cover screw wrench.



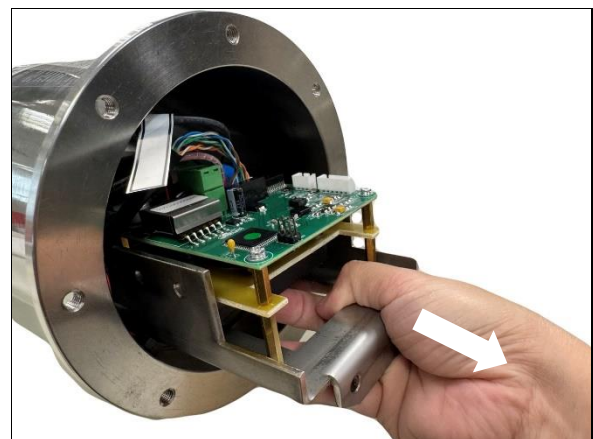
**NOTE:** PMAx-0233 has eight (8) back cover screws while PMAx-0234 has six (6).

2. Slowly pull the back cover to open it. Cable connections are connected inside, detach the cable connections to completely detach the back cover.

a. For PMAX-0234, the camera tray is mounted on the back cover, so it slides out together with the back cover.

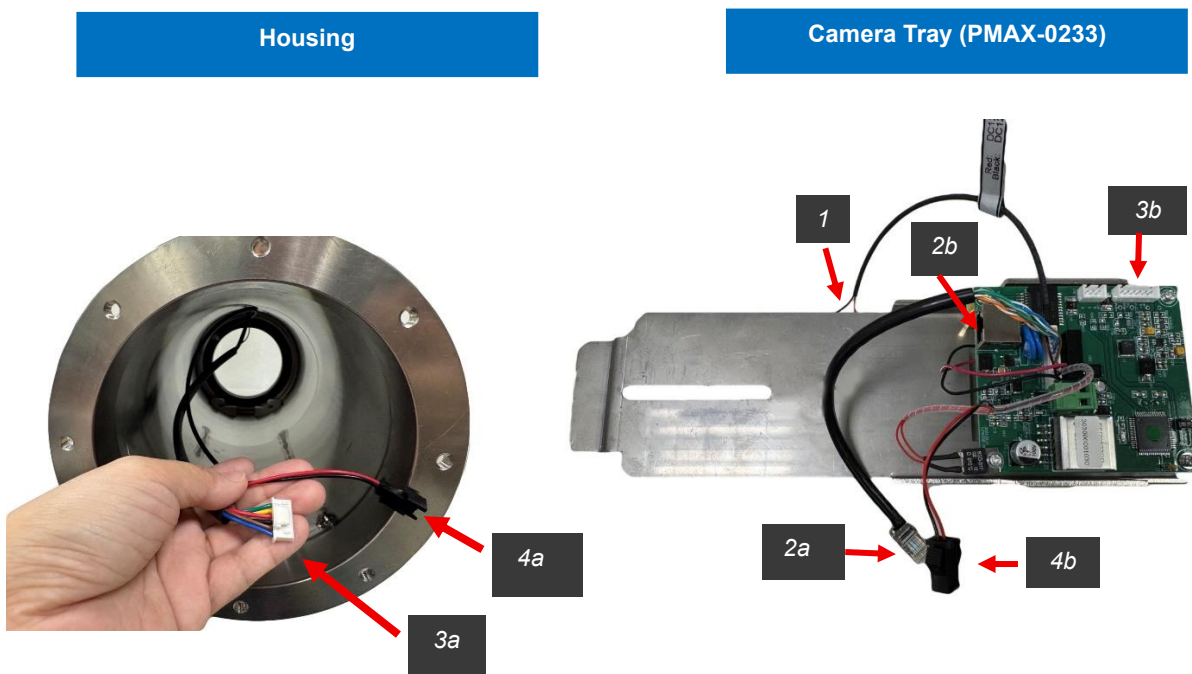


b. For PMAX-0233, remove the two (2) screws securing the camera tray. Then slide to remove the tray.



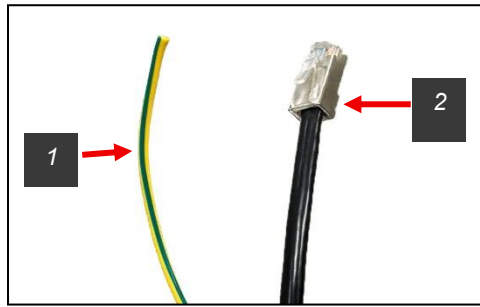
## Cable Connections

Identify the cables and ports on the housing. Below is the image of motherboard of PMAX-0233, similar board is on PMAX-0234.



No.	Item	Description
1	DC 12V Power Cable	Connect to provide power to the camera. Map the wires to the terminal block of the camera.
2	Ethernet Port / Cable	There are two (2) Ethernet cables inside the housing: short and long. Connect the short cable (2a) to the Ethernet port (2b) of the motherboard. Then, connect the long Ethernet cable to the camera to send and receive data over the network. <i>Note:</i> The long Ethernet cable on PMAX-0233 is attached to the back cover.
3	Heater Cable	Connect the Heater cable (3a) to the motherboard (3b).
4	IR Cable	Connect the IR cable (4a) to its connector (4b).

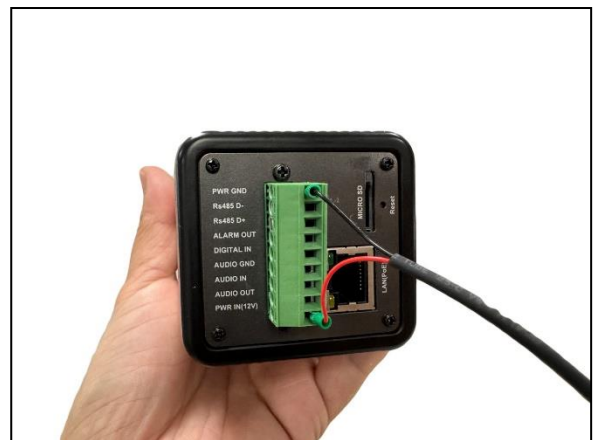
### Camera Pigtail



No.	Item	Description
1	Ground Cable	On the network end, use to connect to ground.
2	Ethernet Cable	Connect to a Power-Over-Ethernet network. This connection powers up the housing. The housing then provides power to the camera, heater, fan, and IR.

### DC 12 Power Cable Connection

The housing provides power to the camera through DC 12V connection. Map the power cable pins using the bundled terminal block of the ACTi camera, as shown below:



### Ethernet Connection

Connect the long Ethernet cable inside the housing to the camera to transmit and receive data over the network.

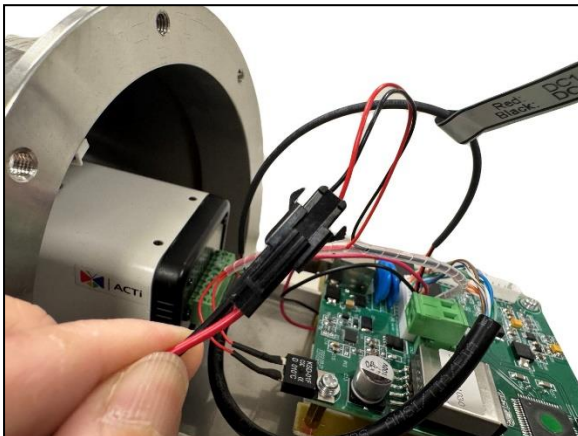
## Mount the Camera

1. Mount and secure the camera by fixing the screw through the bottom hole.

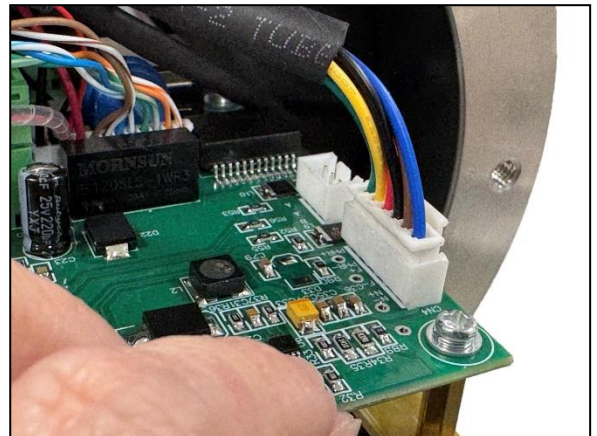


**NOTE:** The bundled camera screws come in different lengths, check which one is suitable for your camera; use with washers as applicable.

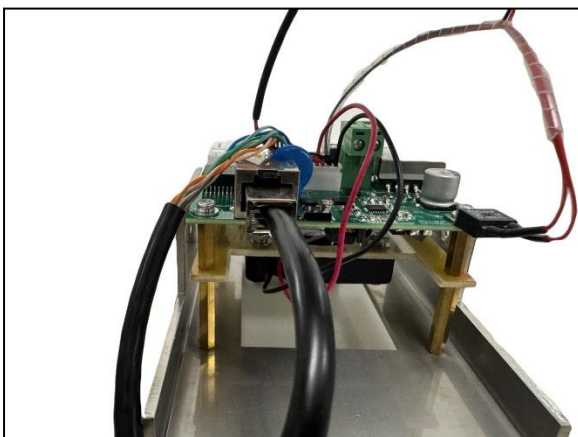
2. If you have not done so, connect the necessary cable connections. You need to slide the camera tray into the housing to complete all the connections.



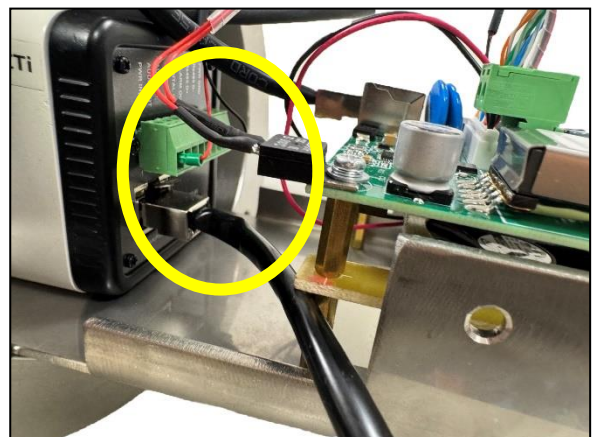
IR cable connection



Heater cable connection

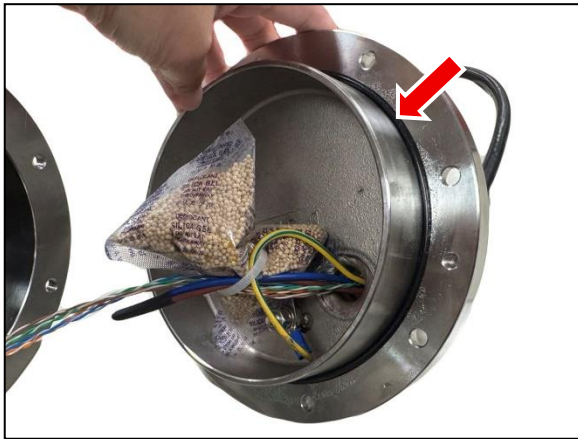


Network to Housing Ethernet power cable connection

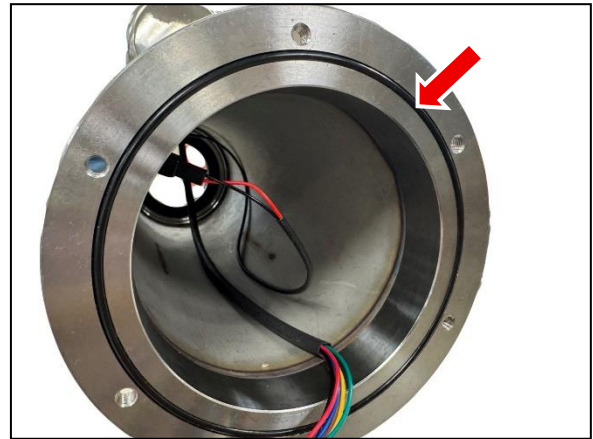


Camera data and power cable connections

3. Make sure the rubber ring inside the housing is secure in its place. This is to block off water from going into the housing.

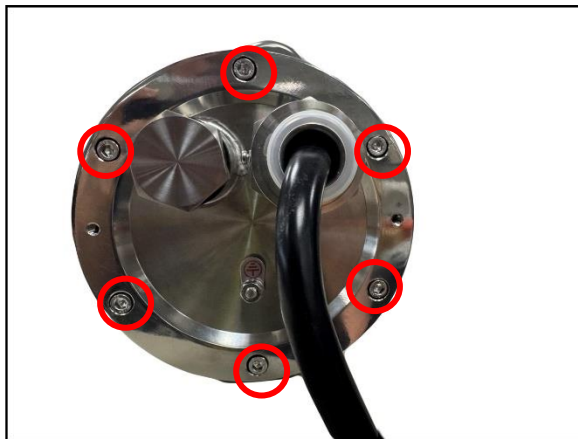


PMAX-0233 rubber ring on the back cover



PMAX-0234 rubber ring on the back of the housing

4. Close the housing back cover and attach the screws to secure it in place.



## Safety Information

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This section provides safety instructions for installing both **standard stainless housings** and **explosion-proof stainless housings**. Always follow these precautions to ensure safe installation and reliable performance.

### General Safety Precautions (For All Housings)

- **Qualified Personnel Only:** Installation and maintenance must be performed by trained technicians.
- **Power Isolation:** Always switch off and lock out power before installation or servicing.
- **Stable Mounting:** Ensure the mounting structure can support the weight of the housing and camera.
- **Cable Protection:** Route cables to prevent cuts, sharp bends, or strain. Use appropriate cable management.
- **Weather Protection:** Confirm seals and gaskets are properly fitted to maintain the IP (Ingress Protection) rating.
- **No Unauthorized Modification:** Do not drill, weld, or alter the housing.

### Additional Safety for Explosion-Proof Housings

Explosion-proof housings are designed for hazardous areas where flammable gases, vapor, or dust may be present. Extra precautions must be observed:

- **Certification Match:** Verify that the housing's rating matches the site classification.
- **Explosion-Proof Cable Glands:** Use only certified cable glands compatible with hazardous area.
- **Grounding:** Properly bond and ground the housing to prevent static discharge.
- **Flame Path Integrity:** Keep all threads, joints, and sealing surfaces clean and undamaged. Tighten according to manufacturer torque specifications.
- **Do Not Open Under Power:** Never open the housing when energized or when the area is classified as hazardous.
- **Regular Inspections:** Check bolts, seals, and flame paths for damage, wear, or corrosion.

## Maintenance & Cleaning

- **Routine Checks:** Inspect for loose fasteners, damaged seals, or signs of corrosion.
- **Cleaning:** Use only a damp cloth. Avoid solvents that may damage stainless steel or seals.
- **Seal Replacement:** Replace O-rings or gaskets immediately if worn or damaged.
- **Record Keeping:** Maintain an installation and inspection log, especially for explosion-proof units.

## Emergency Precautions

- **Explosion-Proof Units:** If unusual heat, sparks, or damage is detected, disconnect power immediately and report to the site safety authority.
- **All Units:** Follow facility emergency protocols and never attempt field repairs that compromise housing integrity.



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