GeoVision inc.
The Vision of Security

GV-A/T/EBD Series IP Camera Mount

Installation Guide

- GV-Mount107
- GV-Mount211-12
- GV-Mount211P
- GV-Mount213
- GV-Mount300-2 / 310-2
- GV-Mount312
- GV-Mount420
- GV-Mount440
- GV-Mount504
- GV-Mount511
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July 2024

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Contents

Preface

Welcome to the *GV-A/T/EBD Series IP Camera Mount Installation Guide*.

This Installation Guide is designed for the following models:

Model	Model Number
Bullet IP Camera	GV-TBL2718
Multi-Sensor IP Camera	GV-TMS8800
Panoramic IP Camera	GV-EBDP5800 / 8800
	GV-TBLP5800 / 8800
Vandal Proof IP Camera	GV-TVD2712

Chapter 1 Installing Multi-Sensor Camera

1.1 Pendant Mounting

The mounting requires GV-Mount107 and Mount 511.

GV-Mount107

GV-Mount511

GV-Mount107 Packing List

1. GV-Mount107	2. Pendant Mount Bracket
3. Pendant Tube	4. Tube Connector
5. Torx Wrench	

Applicable Models:

- GV-TMS8800

Note: Before installing GV-Mount107, note the following:

- Prepare 3 long screws for securing the Pendant Bracket to the ceiling.
- GV-Mount107 optionally extends with GV-mount704.

GV-Mount107 + GV-Mount511 Installation

1. Place GV-Mount107 on the ceiling and mark the location for the center socket and the 3 screws.

2. Drill the marks and secure the Pendant Bracket onto the ceiling.

3. Attach one end of the Pendant Tube to the Pendant Bracket, and the other end to the Tube Connector.

4. Thread the necessary wires from the ceiling through the Pendant Tube.

5. Mount and tighten GV-Mount511 onto the Tube Connector of GV-Mount107.
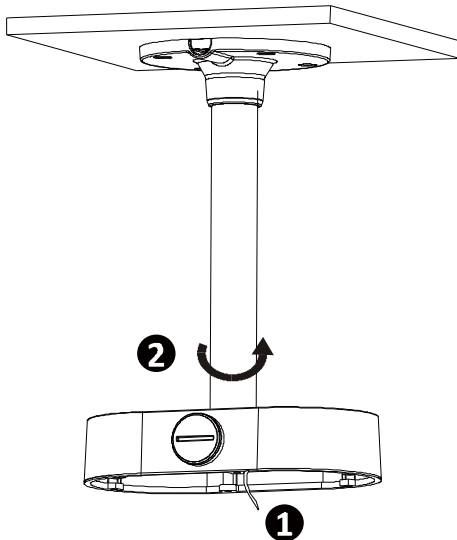
6. Connect the camera tail cables with the wires led out at *Step 4.*

7. Fix the camera base to GV-Mount511, adjust the lens angle, and fix the housing to the camera base.
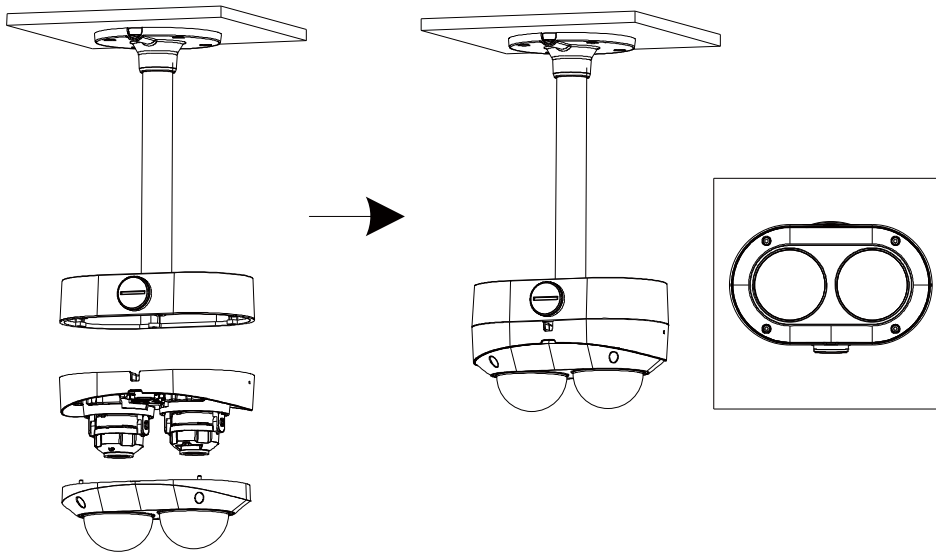
Caution: Do not pull hard when leading the tail cables; otherwise, it will cause loose or disconnected tail cables.

1.2 Wall Mounting

The mounting requires GV-Mount211-12.
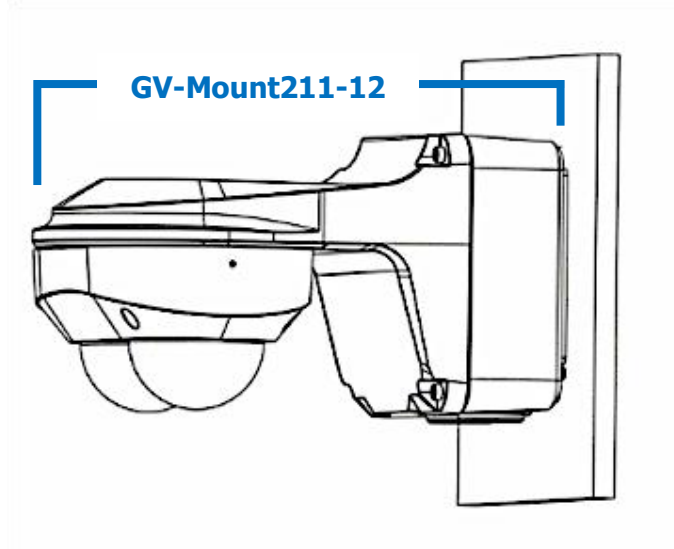
GV-Mount211-12 Packing List

1. GV-Mount211-12	2. Long Screw (47 mm) x 5
3. Short Screw (10 mm) x 4	4. Screw Anchor x 5
5. Drill Template Paster	

Applicable Models:

• GV-TMS8800

GV-Mount211-12 Installation

1. Unscrew the bottom of GV-Mount211-12 to separate the two parts.
2. Drill 4 mounting holes on the wall using the drill template paster.
3. Secure the bottom of GV-Mount211-12 to the wall using the supplied long screws.
4. Unscrew the four screws of the camera to remove the housing from the camera base.
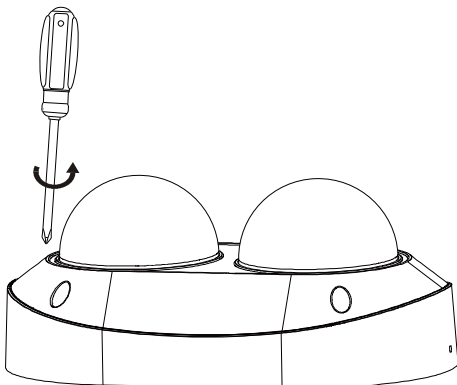
5. Thread the necessary wires through GV-Mount211-12.

![GeoVision Inc. logo]

6. Secure the camera bottom onto the upper part of GV-Mount211-12 using the supplied short screws as indicated below.
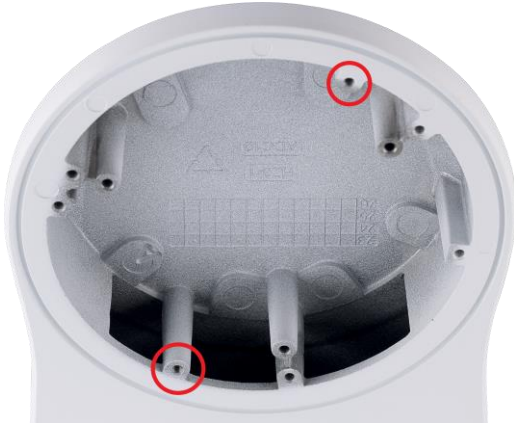
7. Fix the housing to the camera base and assemble GV-Mount211-12 to complete the installation.

1.3 Corner Mounting

The mounting requires GV-Mount211-12 + GV-Mount312.
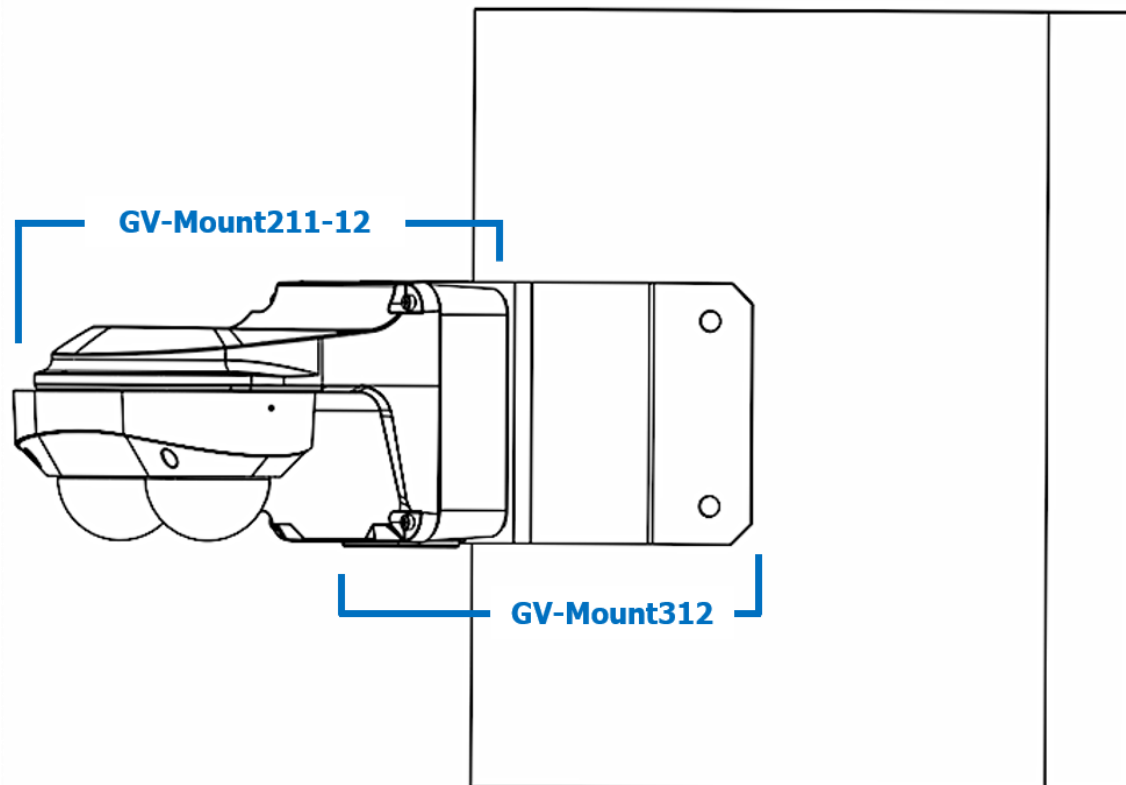
GV-Mount312 Packing List

1. GV-Mount312	2. M4 Screw (20 mm) x 4
3. M8 Screw (80 mm) x 4	

Applicable Models:

- GV-TMS8800

Note: GV-Mount312 must be used in conjunction with GV-Mount211-12.

GV-Mount211-12 + GV-Mount312 Installation

1. Drill 4 mounting holes on the corner using the drill template paster.
2. Secure GV-Mount312 to the corner using the supplied screws.
3. Unscrew the bottom of GV-Mount211-12 to separate the two parts.

4. Secure the bottom of GV-Mount211-12 onto GV-Mount312 using the supplied screws as indicated below.
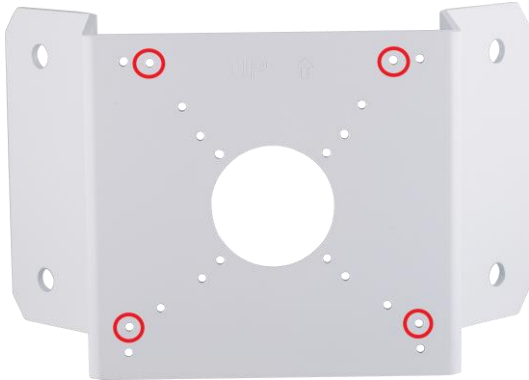
Note: Make sure the direction of the UP ↑ indicators on the 2 parts are placed pointing upward.

5. Follow *Step 4 ~ 7* in *2. Wall Mounting with GV-Mount211-12* to complete the installation.

1.4 Pole Mounting

The mounting requires GV-Mount211-12 + GV-Mount420.

GV-Mount420 Packing List

1. GV-Mount420	2. M4 Screw x 4
3. Additional Screw Kit • M6 Screw x 4 • M6 Nut x 4 • M6 Plain Washer x 4 • M6 Split Washer x 4	

Applicable Models:

• GV-TMS8800

Note: GV-Mount420 must be used in conjunction with GV-Mount211-12.

GV-Mount211-12 + GV-Mount420 Installation

1. Unscrew the bottom of GV-Mount211-12 to separate the two parts.

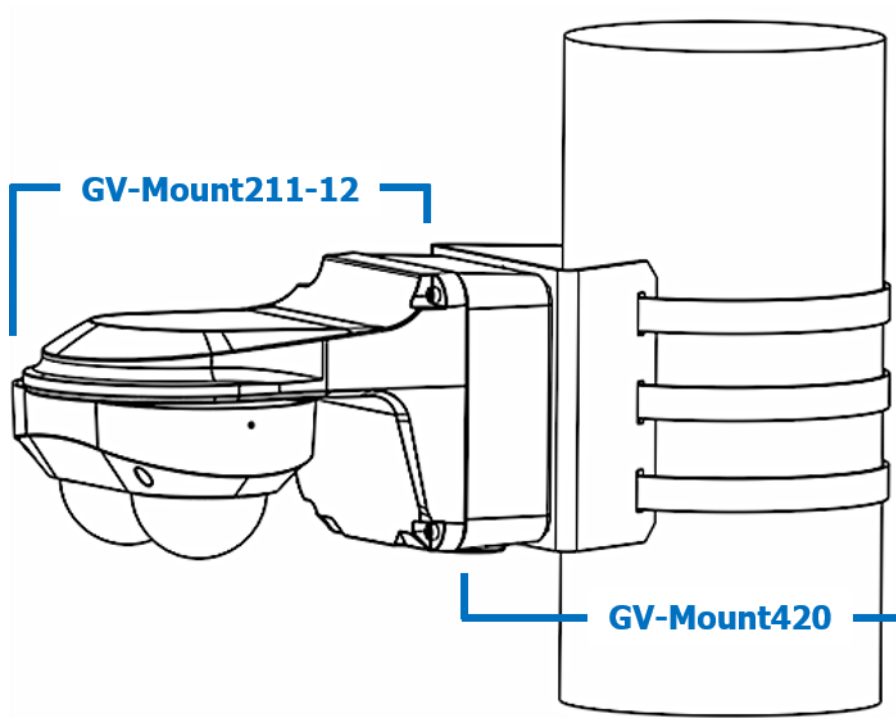2.   Align and attach the bottom of GV-Mount211-12 to GV-Mount420 using the supplied screws as indicated.
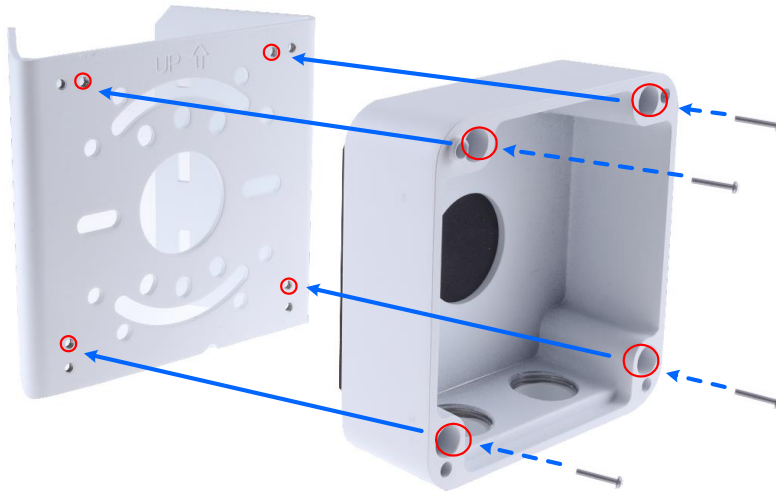
Note: Make sure the direction of the UP ↑ indicators on the 2 parts are placed pointing upward.

3.   Thread the 3 steel straps onto the back plate.
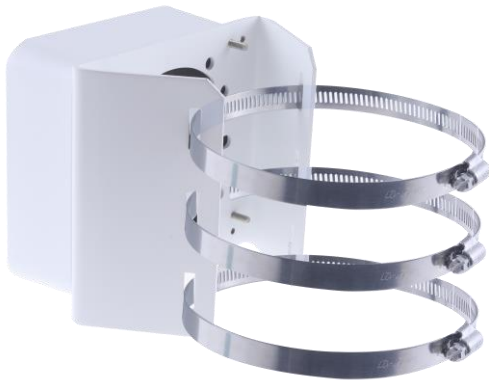
4.   Follow *Step 4 ~ 7* in *2. Wall Mounting with GV-Mount211-12* to assemble GV-Mount211-12.

5.   Secure the camera onto the desired pole by tightening the steel straps.

1.5 Wall Box Mounting

The mounting requires GV-Mount511.

GV-Mount511 Packing List

1.	GV-Mount511	2.	M3 Screw (25 mm) x 4
3.	M3 Screw (12 mm) x 2	4.	Screw Anchor x 4
5.	Drill Template Paster		

Applicable Models

• GV-TMS8800

GV-Mount511 Installation

1. Drill 4 mounting holes and a hole at the center socket location on the wall using the drill template paster.
2. Insert 4 screw anchors to the mounting screw location and secure GV-Mount511 to the wall with the supplied screws. Note that the knobs should point down.

Knobs point down

3. Unscrew the four screws of the camera to remove the housing from the camera base.
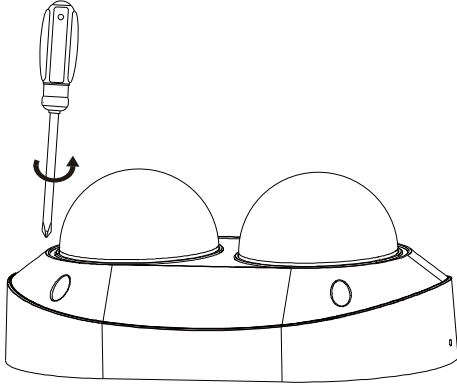
4. Cut open GV-Mount511 base and thread the camera cables through the center socket and waterproof the Ethernet cable. For details, see *1.10 Waterproofing the Cable* in the User's Manual.

5. Fit the cables into GV-Mount511.

6. Secure the camera base onto GV-Mount511 using the 2 supplied screws as indicated below:

7. Adjust the camera lens angles if necessary, and fix the housing to the camera base.
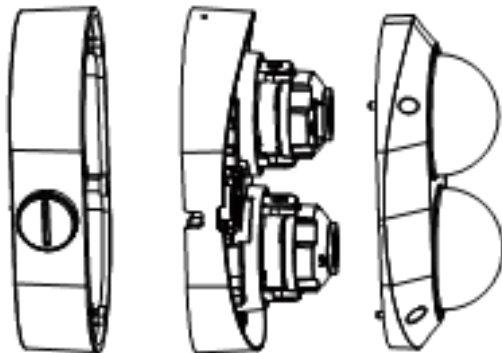
Chapter 2   Installing Eyeball Dome / Vandal Proof Dome

2.1 Pendant Mounting

The mounting requires GV-Mount107 and GV-Mount213 / 212P.

GV-Mount213 is for eyeball domes, while GV-Mount212P is for vandal proof domes.

The following illustration uses GV-Mount213 as an example:
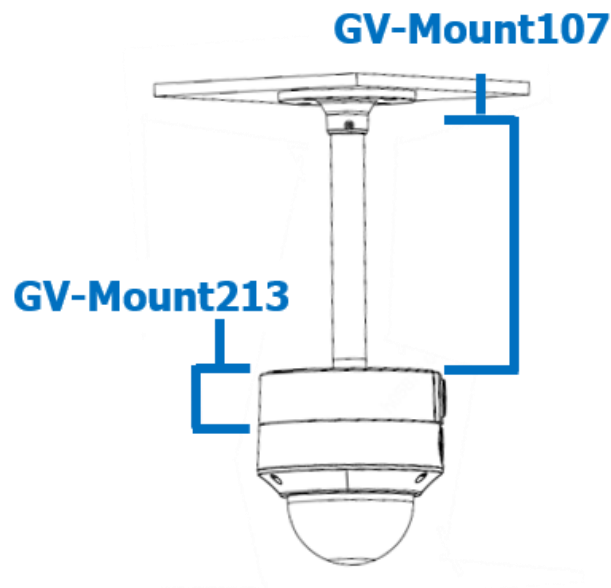
GV-Mount107 Packing List

1.	Pendant Bracket	2.	Pendant Tube
3.	Tube Connector	4.	Torx Wrench

GV-Mount213 / 212P Packing List

1.	GV-Mount213 / 212P	2.	Long Screw x 3
3.	Short Screw x 3	4.	Screw Anchor x 3

Applicable Models:

- Eyeball Dome: GV-EBDP5800 / 8800
- Vandal Proof Dome: GV-TVD2712

1. Place GV-Mount107 on the ceiling and mark the location for the center socket and the 3 screws.

2. Drill the marks and secure the Pendant Bracket onto the ceiling.

3. Attach one end of the Pendant Tube to the Pendant Bracket, and the other end to the Tube Connector.

4. Connect the wires from the ceiling to the camera through the Pendant Tube.

5. Push and arrange the connected wires inside Mount213 / 212P.

6. Secure the camera onto the Tube Connector.

2.2 Junction Box Mounting

The mounting requires GV-Mount211P.

GV-Mount211P Packing List

1.	GV-Mount211P	2.	Long Screw x 5
3.	Short Screw x 4	4.	Screw Anchor x 5
5.	Plastic PG21 Conduit Connector	6.	Drill Template Paster

Applicable Models:

Eyeball Dome

- GV-EBD2702 / 2704 / 2705 / 4700 / 4701 / 4704 / 4711 / 4712 / 4813 / 8700 / 8711 / 8800 / 8813

- GV-EBDP5800 / 8800

- GV-EBFC5800

Vandal Proof Dome

- GV-TVD2712

GV-Mount2111P Installation

1.   Unscrew the bracket.

2.   Loosen the indicated area by turning it anticlockwise.

Power Box

3.   Stick the drill template paster to the wall with the arrow pointing up.

4.   Drill 4 holes according to the sticker and insert the 4 screw anchors to the 4 holes.

5.   Secure the power box to the wall with 4 long screws.
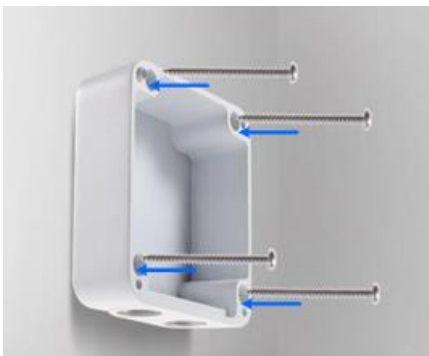
6.   Remove the bottom ring by turning it anticlockwise.

Bottom Ring
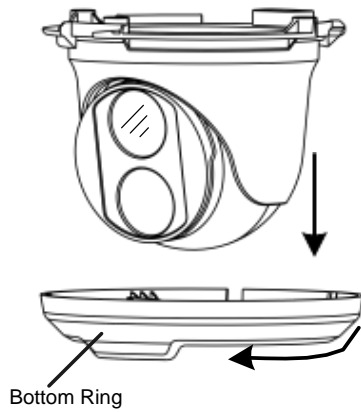
7.   Secure the camera to the wall mount bracket with the provided short screws according to the screw position for each model:

GV-EBDP5800 / 8800
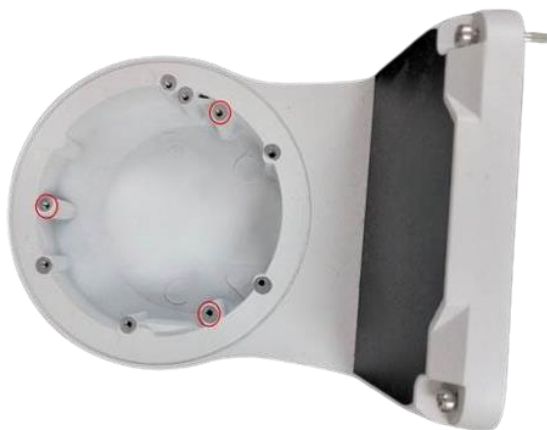
GV-EBD2702 / 2704
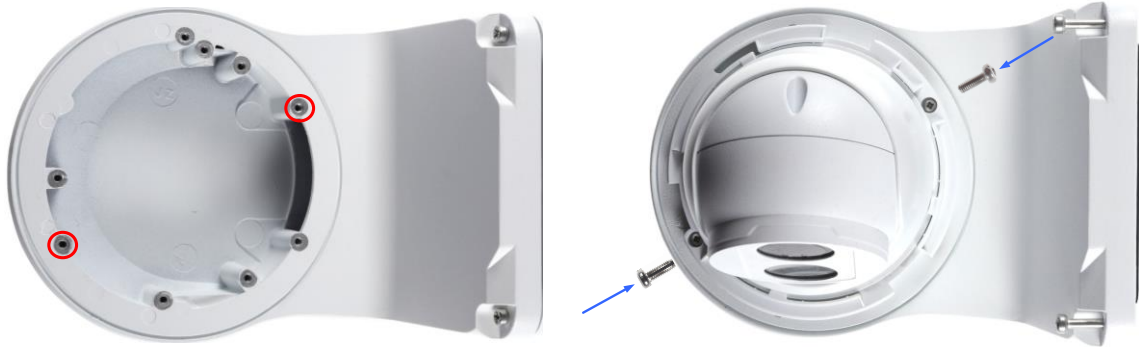
8. Thread the Ethernet cable through the PG21 conduit connector and the power box as shown in No. 8, *Step 10*. Then connect the cable to the camera.

9. Rotate the plastic ring to secure the conduit connector to the power box. Screw in the cap as shown in No. 9, *Step 10*.

10. Screw the wall mount bracket to the power box as shown in No. 10 in the figure below.

Plastic Ring

Cap
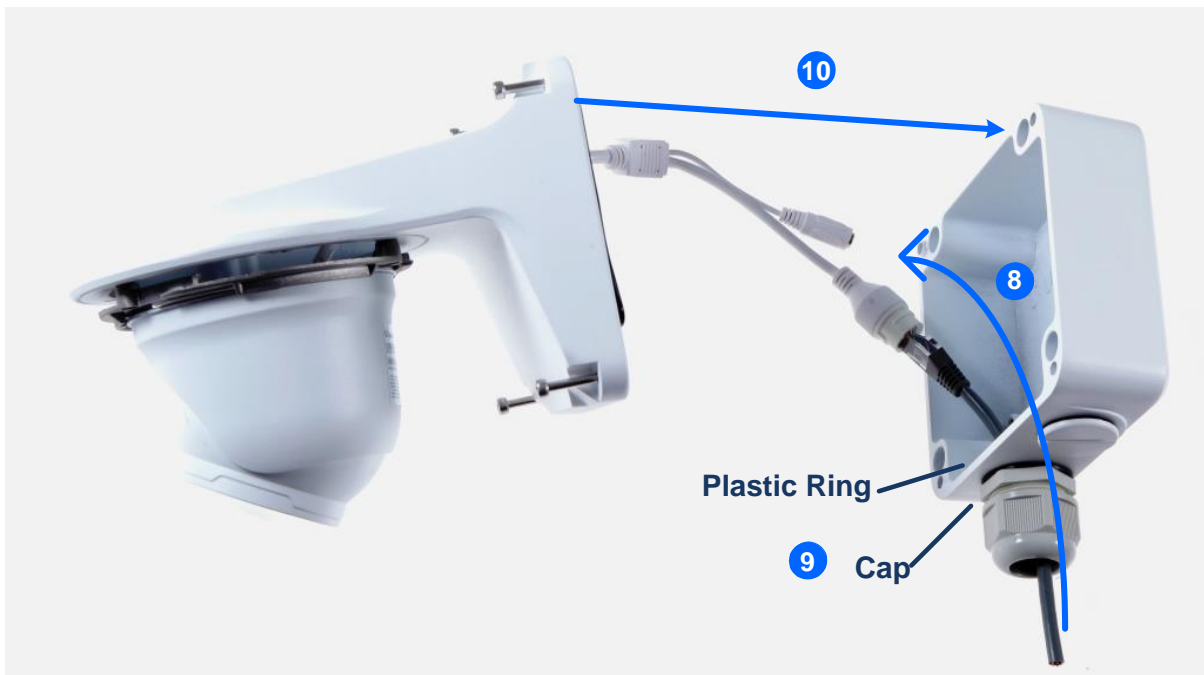
11. Mount the bottom ring.

![GeoVision Inc. logo]

2.3 Convex / Concave Corner Mounting

The mounting requires GV-Mount211P and GV-Mount300-2 / 310-2.

GV-Mount300-2 is for convex corner mounting, while GV-Mount310-2 is for concave corner installation.

GV-Mount300-2 / 310-2 Packing List

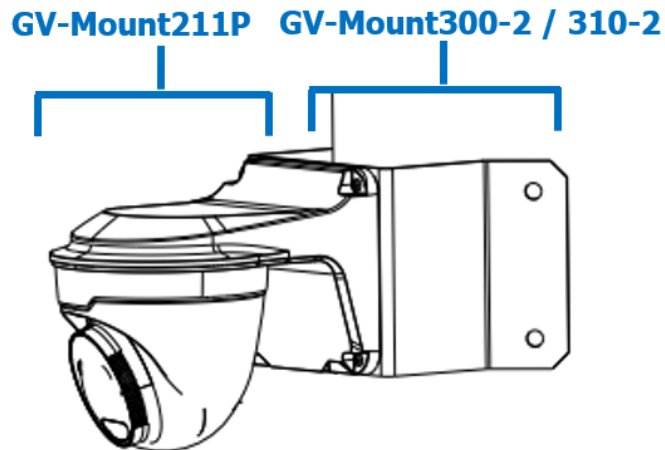| 1.	Mounting Bracket	2.	Convex / Concave Mounting Plate x 2
3.	Carriage Bolt x 6	4.	1/4" Plain Washer x 6
5.	1/4" Flange Nut x 6	6.	M4 Screw (25 mm) x 4
7.	M4 Plain Washer x 4	8.	M4 Flange Nut x 4
9.	M3 Screw (15 mm) x 4	10.	M3 Plain Washer x 4
11.	M3 Flange Nut x 4		

Applicable Models:

- Eyeball Dome: GV-EBDP5800 / 8800
- Vandal Proof Dome: GV-TVD2712

GV-Mount211P + GV-Mount300-2 / 310-2 Installation

1. To install the camera to the GV-Mount211P junction box, see *2.2 Junction Box Mounting*.
2. Assemble the GV-Mount300-2 / 310-2, by attaching the two mounting plates onto the mounting bracket with the supplied carriage bolts, 1/4" plain washers, and 1/4" flange nuts.

3. Position and secure GV-Mount211P to GV-Mount300-2 / 310-2 as indicated below.

4. Secure your camera to the GV-Mount211P to complete the installation.

2.4 Pole Mounting

The mounting requires GV-Mount211P and Mount420.

GV-Mount420 Packing List

1. GV-Mount420	2. M4 Screw x 4
3. Additional Screw Kit • M6 Screw x 4 • M6 Nut x 4 • M6 Plain Washer x 4 • M6 Split Washer x 4	

Applicable Models:

• Eyeball Dome: GV-EBDP5800 / 8800
• Vandal Proof Dome: GV-TVD2712

GV-Mount211P + Mount420 Installation

1. Unscrew the bracket.

2. Loosen the indicated area by turning it anticlockwise.

Power Box

3. Align and attach the power box to the back plate using the 4 supplied M4 screws as indicated.
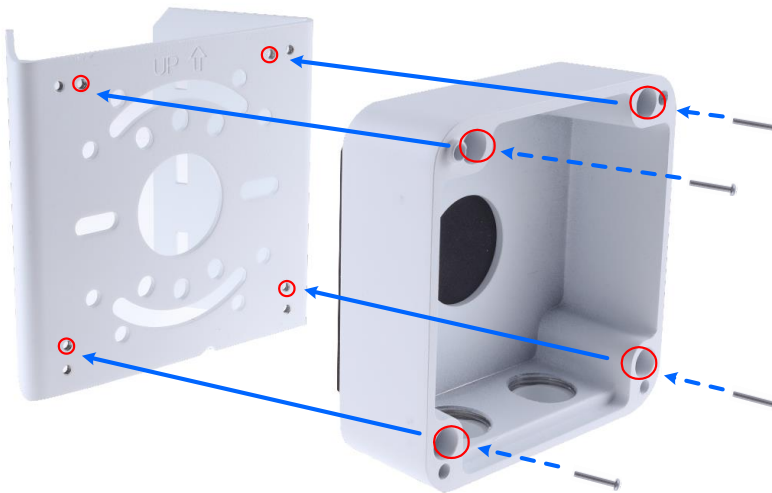
Note: Make sure the direction of the "up ↑" indicator on the back plate match that of the power box.

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4. Thread the 3 steel straps onto the back plate.
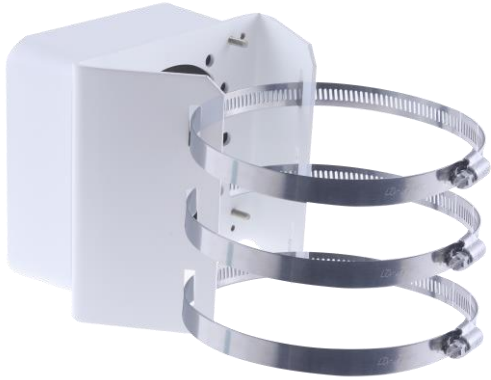
5. To install the camera to the GV-Mount211P junction box, follow Step 6 ~ 12 in *2.2 Junction Box Mounting.*

6. Secure the camera onto the desired pole by tightening the steel straps.

2.5 Wall / Ceiling Box Mounting

The mounting requires GV-Mount213 or GV-Mount211P.

GV-Mount213 is for eyeball domes, while GV-Mount211P is for vandal proof domes.

The following illustration uses GV-Mount213 as an example:

GV-Mount213

GV-Mount213 / 212P Packing List

1. GV-Mount213 / 212P	2. Long Screw x 3
3. Short Screw x 3	4. Screw Anchor x 3

Applicable Models:

- Eyeball dome: GV-EBDP5800 / 8800
- Vandal Proof Dome: GV-TVD2712

GV-Mount213 / 212P Installation

1. Attach the GV-Mount to the wall / ceiling and use a marker to mark the location for the center socket and the 3 screws.

2. Drill 3 holes according to the screw locations. Then, drill a bigger hole at the center socket location for the Ethernet cable.
3. Insert 3 screw anchors to the screw locations and secure GV-Mount to the wall / ceiling with 3 long screws.
4. Thread the Ethernet cable through the center socket and waterproof the Ethernet cable.

5. Fit the cable into the GV-Mount.
6. Remove the camera cover and fasten the camera to the wall box mount as indicated below using the supplied short screws.


7. Secure the camera cover.

Note: In addition to the abovementioned standard installation, you can also choose to run the Ethernet cable through a corrugated tube. To do this, you will have to purchase your own conduit connector and corrugated tube. 3/4" NPS is the recommended type of connector. After you secure the wall box to the desired location, remove the knob at the bottom and connect the conduit connector with a self-prepared corrugated tube to the wall box. Then, thread the Ethernet cable through the corrugated tube and waterproof the cable.
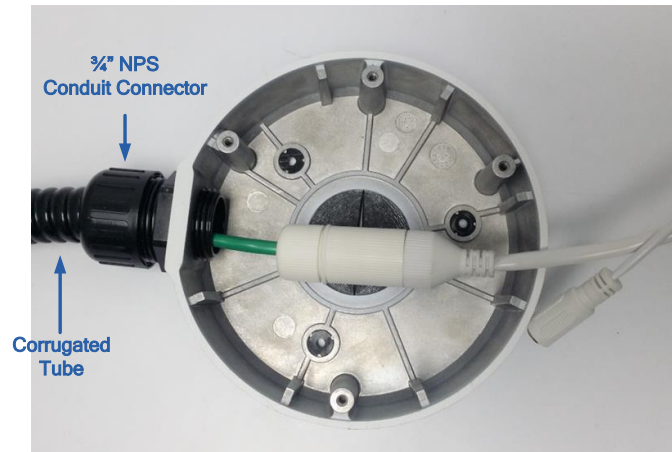
2.6 Power Box Mounting

The mounting requires GV-Mount924.
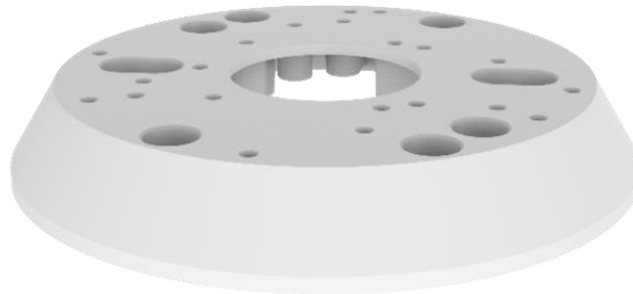
GV-Mount924 Packing List

1. GV-Mount924	2. M3 8 mm Screw x 4

Applicable Models

- GV-EBDP5800 / 8800

The mounting is only for eyeball domes.

GV-Mount924 installation

1. Secure the gang box onto the back of GV-Mount924 using the ports indicated below.

US Double Gang Box   US Single Gang Box

2. Thread the camera's cables through GV-Mount924 and secure the camera onto the mount using the ports indicated below using the supplied screws.
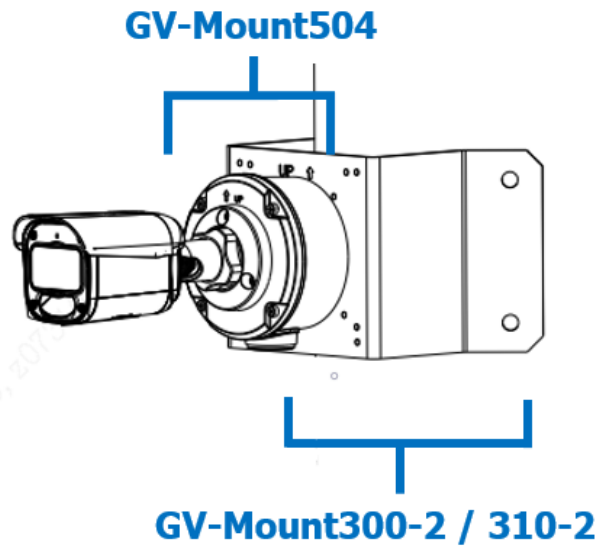
Chapter 3   Installing Bullet Camera

3.1 Convex / Concave Corner Mounting

The mounting requires GV-Mount504 and GV-Mount300-2 / 310-2.

GV-Mount300-2 is for convex corner mounting, while GV-Mount310-2 is for concave corner installation.

GV-Mount300-2 / 310-2 Packing List

1. Mounting Bracket	2. Convex / Concave Mounting Plate x 2
3. Carriage Bolt x 6	4. 1/4" Plain Washer x 6
5. 1/4" Flange Nut x 6	6. M4 Screw (25 mm) x 4
7. M4 Plain Washer x 4	8. M4 Flange Nut x 4
9. M3 Screw (15 mm) x 4	10. M3 Plain Washer x 4
11. M3 Flange Nut x 4	

Applicable Models:

- GV-TBL2718
- GV-TBLP5800 / 8800

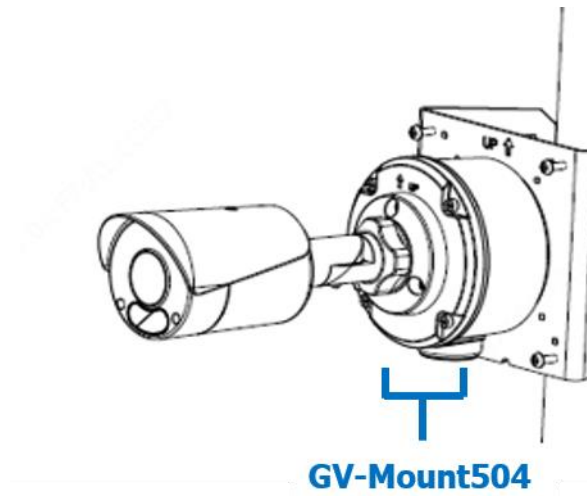**GV-Mount300-2 / GV-Mount310-2 + GV-Mount504 Installation**

1. Follow the instructions in *3.2 Wall Box Mountin* to install the camera onto GV-Mount504.

2. Assemble the GV-Mount300-2 / 310-2, by attaching the two mounting plates onto the mounting bracket with the supplied carriage bolts, 1/4" plain washers, and 1/4" flange nuts.

3. Position and secure GV-Mount504 to GV-Mount300-2 / 310-2 as indicated below.

4. Secure your GV-IP Camera to the GV-Mount211P to complete the installation.

![GeoVision Inc. logo]

3.2 Wall Box Mounting

The mounting requires GV-Mount504.

GV-Mount504

GV-Mount504 Packing List

1.	GV-Mount504	2.	Long Screw x 4
3.	Short Screw x 3	4.	Screw Anchor x 4
5.	Drill Template Paster	6.	Waterproof Rubber Plug
7.	Plastic PG21 Conduit Connector		

Applicable Models:

• GV-TBL2718

• GV-TBLP5800 / 8800

GV-Mount504 Installation

1. Unscrew the box cover.
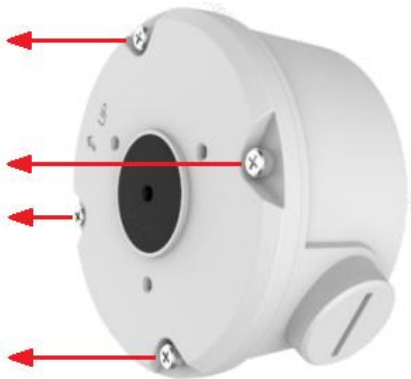
2. Stick the drill template paster to the wall with the arrow pointing up.

3. Drill the 4 mounting holes according to the drill template.

4. Insert the 4 screw anchors to the mounting holes.

5. Position the power box on the wall with the "up　↑" indicator pointing up and align the screw holes indicated below to the 4 mounting holes on the wall.


6. Secure the power box to the wall with the supplied long screws.

7. Connect the Ethernet cable using one of the two methods:

   A.   Thread the Ethernet cable through the center hole.

   B.   Thread the Ethernet cable through the PG21 conduit connector and the power box as shown in No 8 in the figure below.

   Rotate the plastic ring to secure the conduit connector to the power box. Secure in the cap, as shown in No 9 in the figure below.
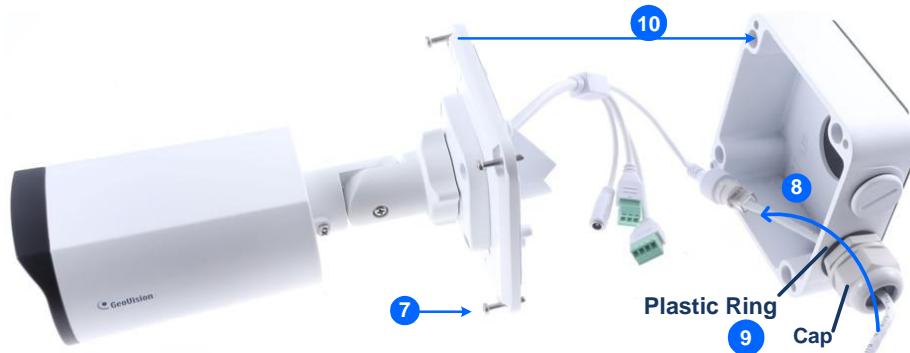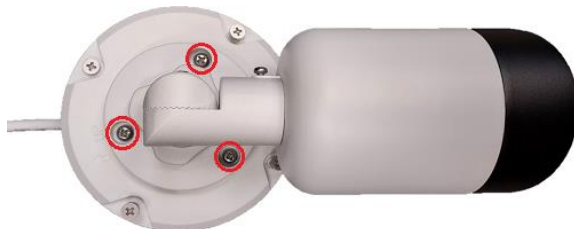

8. Thread the camera cable through the box cover from the top, and then attach the supplied waterproof rubber plug to the camera cable at around the camera base, as shown in the figure below.

9. Press firmly to embed the waterproof plug onto the box cover.

10. Use the supplied short screws to secure the camera to the box cover at the indicated holes below.

11. Connect the Ethernet cable to the camera cable, align the "up ↑" indicators on the box cover and power box, and then secure the box cover to the power box.

3.3 Pole Mounting

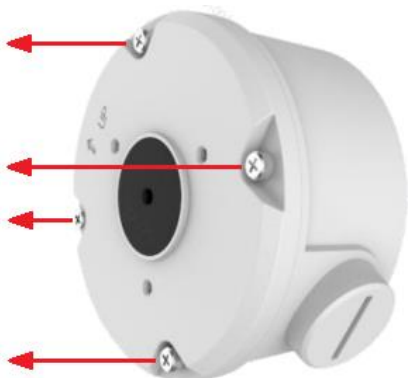The mounting requires GV-Mount440 and GV-Mount504.
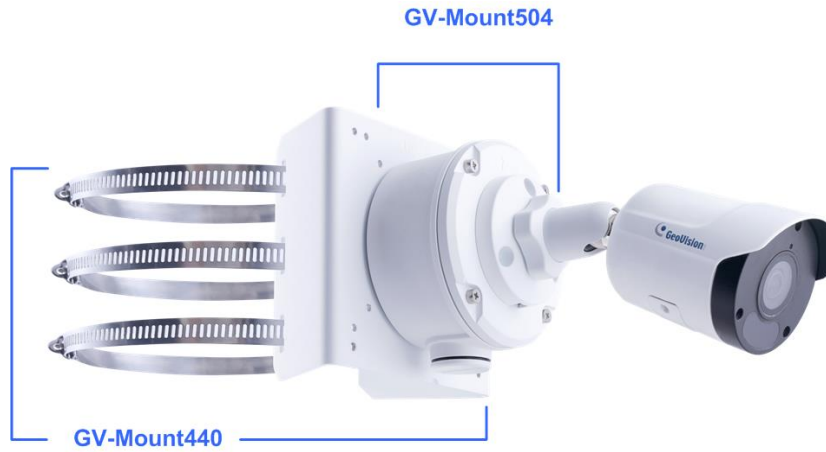
GV-Mount440 Packing List

1. GV-Mount440	2. M4 Screw x 4

Applicable Models:

- GV-TBL2718
- GV-TBLP5800 / 8800

GV-Mount440 + GV-Mount504 Installation

1. Unscrew the box cover.

2. Align and attach the power box to the back plate using the 4 supplied M4 screws as indicated.
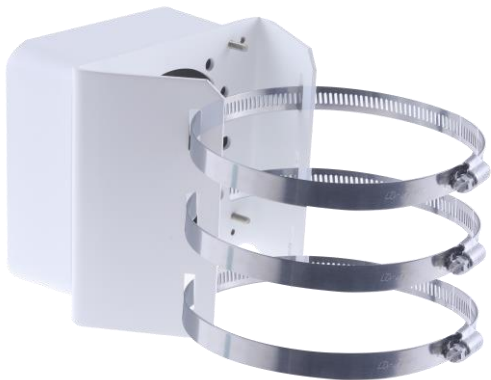

> **Note:** Make sure the direction of the "up ↑" indicator on the back plate matches that of the power box.
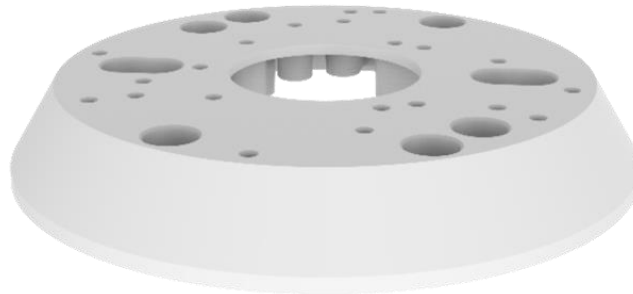
3. Thread the 3 steel straps onto the back plate.

4. To install the camera to the GV-Mount504 wall box, follow *Step 7 ~ 12* in *3.2 Wall Box Mounting*.

5. Secure the camera onto the desired pole by tightening the steel straps.

3.4 Power Box Mounting

The mounting requires GV-Mount924.

GV-Mount924 Packing List

1. GV-Mount924	2. M3 8 mm Screw x 4

Applicable Models

- GV-TBL2718
- GV-TBLP5800 / 8800

GV-Mount924 installation

1. Secure the gang box onto the back of GV-Mount924 using the ports indicated below.

US Double Gang Box   US Single Gang Box

2. Thread the camera's cables through GV-Mount924 and secure the camera onto the mount using the ports indicated below using the supplied screws.