

GV-Power Box

Installation Guide



GV-G1 Power Box

- GV-Mount211-1 / 211-12 / 211-16 / 503-1
- GV-Mount211-4
- GV-Mount706

Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.



© 2026 GeoVision, Inc. All rights reserved.

Under the copyright laws, this manual may not be copied, in whole or in part, without the written consent of GeoVision.

Every effort has been made to ensure that the information in this manual is accurate. GeoVision, Inc. makes no expressed or implied warranty of any kind and assumes no responsibility for errors or omissions. No liability is assumed for incidental or consequential damages arising from the use of the information or products contained herein. Features and specifications are subject to change without notice.

GeoVision, Inc.
9F, No. 246, Sec. 1, Neihu Rd.,
Neihu District, Taipei, Taiwan
Tel: +886-2-8797-8377
Fax: +886-2-8797-8335
<http://www.geovision.com.tw>

Trademarks used in this manual: *GeoVision*, the *GeoVision* logo and *GV* series products are trademarks of GeoVision, Inc. *Windows* is the registered trademark of Microsoft Corporation.

April 2026

Scan the following QR codes for product warranty and technical support policy:



[Warranty]



[Technical Support Policy]

Contents

Preface.....	1
Chapter 1 GV-G1 Power Box Overview	2
1.1 Introduction.....	2
1.2 Packing List	3
1.3 Hardware Overview	5
Chapter 2 Installation on a Pole.....	7
Chapter 3 Optional Internal Installation	8
3.1 Waterproof Conduit Fitting	8
3.2 Quick Release Panel and DIN Rail	12
3.3 Door Sensor Baffle	14
Chapter 4 GV-IP Camera / IP Speaker Installation.....	15
4.1 Installation on the Left or Right Side of the Power Box	15
4.2 Installation on the Bottom Side of the Power Box.....	17
4.2.1 GV-Mount706 Adapter Ring	17
4.2.2 GV-Mount706 + GV-SD4825-IR Installation	18
4.2.3 GV-TMS8800 / IP Speaker Installation.....	20

Preface

Welcome to the *GV-Power Box Installation Guide*.

This Installation Guide is designed for the following models:

Models Compatible with GV-G1 Power Box Installation		
Model		Model Number
GV-IP Camera	Bullet	GV-TBL2705 / TBL2706 / TBL4700 / TBL4705 / TBL4711 / TBL4807 / TBL4810 / TBL8710 / TBL8804 / TBL8810 / GBL4900 / GBL4911 / GBL12811
		GV-ABL4712 / BLFC5800
	Fixed Dome	GV-TDR2702 / TDR2705 / TDR4700 / TDR4702 / TDR4803 / TDR8805 / TFD4700 / TFD4800
		GV-GDR2801 / GDR4900 / GDRF4800 / GDRN4800
	Vandal Proof Dome	GV-TVD2712 / TVD4811
	Eyeball Dome	GV-EBD2704 / EBD2705 / EBD4700 / EBD4701 / EBD4704 / EBD4813 / EBD8800 / EBD8813 / EBFC5800
		GV-GEB4900 / GEBF2802 / GEBF4802 / GEBF4813 / GEBF4911 / GEBN4800
	Panoramic	GV-TBLP5800 / TBLP8800
		GV-EBDP5800 / EBDP8800
		GV-GEBP8900
	Multi-Sensor	GV-TMS8800
	Thermal	GV-TMEB5800
	PTZ	GV-PTZ5810-IR
Speed Dome	GV-SD4825-IR	
GV-IP Speaker	GV-IPSH30 V2.0	
GV-Mount	GV-Mount211-1 / Mount211-4 / Mount211-12 / Mount211-16 / Mount503-1 / Mount706	

IMPORTANT: Some models require additional mounts to be installed on GV-G1 Power Box. For details, see the [datasheet](#).

Chapter 1 GV-G1 Power Box Overview

1.1 Introduction



GV-G1 Power Box is a rugged, all-weather outdoor electrical equipment enclosure designed for reliable operation in harsh environments. Its pole-mount design ensures secure and stable outdoor installation, while the modular internal structure allows electrical equipment to be installed vertically or horizontally, offering flexible deployment options for diverse site requirements.

This installation guide provides instructions for pole mounting and installing key components within the enclosure. It also explains how to mount GV-IP Cameras and GV-IP Speakers on the left, right, and bottom sides of the power box.

For details on applicable models and dimensions, see the [datasheet](#).

1.2 Packing List

<p>1. GV-G1 Power Box</p> 	<p>2. Pole Mount Set x 1 (includes Universal Clamp x 2, Stainless Steel Cable Tie x 2)</p> 
<p>3. Quick Release Panel (2U) x 1</p> 	<p>4. Quick Release Panel (3U) x 2</p> 
<p>5. DIN Rail x 1</p> 	<p>6. Industrial Triangle Key x 1</p> 
<p>7. Door Sensor Baffle x 1</p> 	<p>8. Screw (M3 x 6) x 4 (spare screws for the door hinge)</p> 

9. Screw (M4 x 12) x 20
(for left- or right-side installation)



10. Screw (M4 x 25) & Nut (M4) x 16 sets
(for left- or right-side installation)



11. Screw (M3 x 16) & Nut (M3) x 4 sets
(for **GV-TMS8800** installation on the bottom side)



12. Screw (M8 x 12) & Nut (M8) x 2 sets
(for installing one **GV-IP Speaker**; if more than one GV-IP Speaker is to be installed, additional screws must be purchased by the user)



13. Straight Waterproof Nylon Corrugated Conduit Fitting (M32 x 1.5) x 2



14. Straight Waterproof Nylon Corrugated Conduit Fitting (PF 3/4) x 2



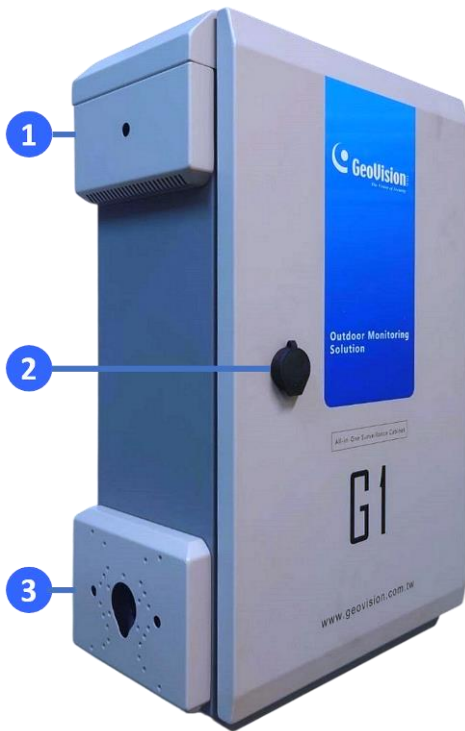
15. 90° Waterproof Nylon Corrugated Conduit Fitting (M32 x 1.5) x 2



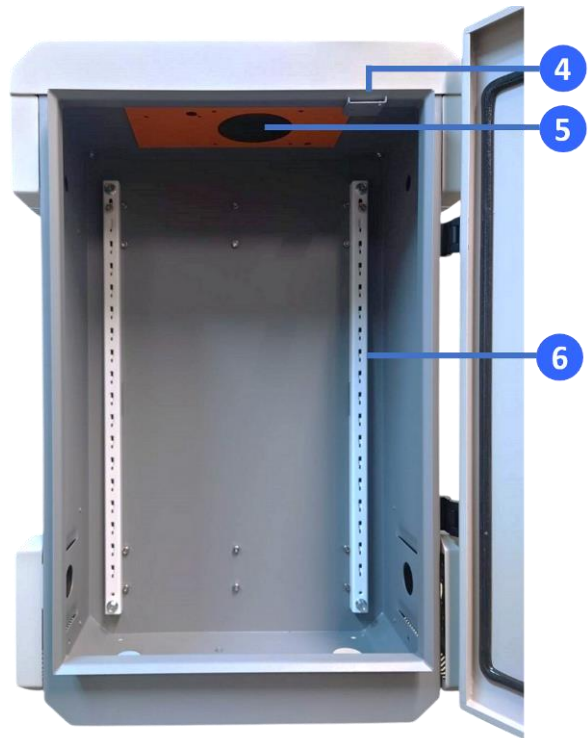
16. 90° Waterproof Nylon Cable Gland (M16 x 1.5) x 2



1.3 Hardware Overview



Perspective View



Interior View – Before Internal Installation



Rear View



Interior View – After Internal Installation



Bottom View



Door Lock with Cover Open

1. Sensor Compartment x 2 (left and right sides)	2. Door Lock with Cover
3. Mounting Plate x 2 (left and right sides)	4. Door Sensor Compartment
5. Fan or Heater Compartment	6. Rack Rail x 2
7. Back Beam x 2 (for installation on a pole)	8. Quick Release Panel (see <i>1.2 Packing List</i>)
9. Waterproof Conduit Fitting x 8 (see <i>1.2 Packing List</i>)	

Chapter 2 Installation on a Pole

The steps below show the installation of **GV-G1 Power Box** onto a pole using the supplied pole mount.

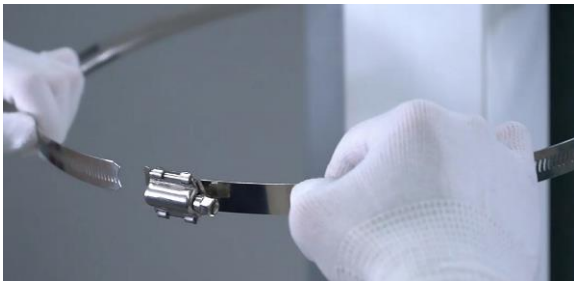
1. Insert the stainless steel cable tie through the mounting hole of the universal clamp.



2. Slide the universal clamp into the upper and lower back beams on the back of the enclosure.



3. Place the enclosure onto the pole and adjust it to the desired height and position, then fasten the stainless steel cable tie around the pole.



4. Tighten the screw on the cable tie using a flathead screwdriver. Ensure that the cable tie's connection point is positioned directly behind the universal clamp and the back of the enclosure; if it is misaligned, the enclosure may not be properly secured and could fall.



5. Check that the enclosure is securely fastened.



6. The installation is complete.



Chapter 3 Optional Internal Installation

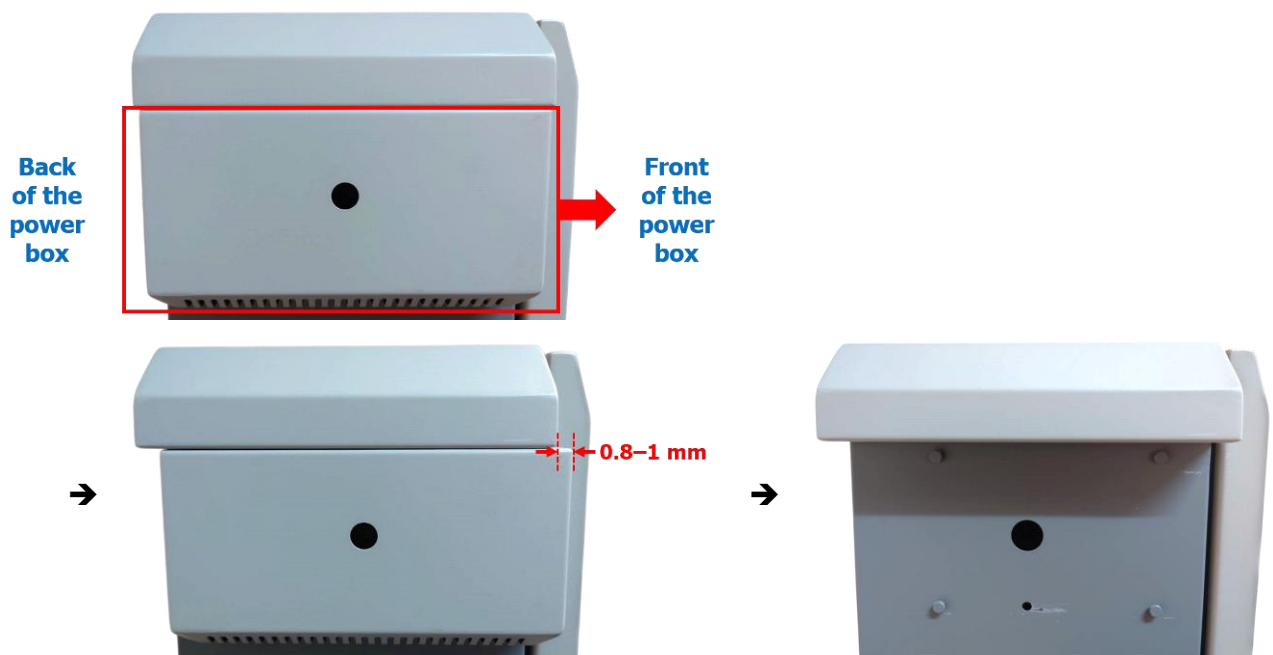
The steps below show the installation of **internal components** into the GV-G1 Power Box using the supplied waterproof conduit fittings, quick release panels, and door sensor baffle set. All installations are optional.

3.1 Waterproof Conduit Fitting

To protect cables from water and environmental exposure, install the waterproof conduit fittings as described below.

On the upper sections of the left and right sides of the power box

1. Remove the boxes located here. Push each box toward **the front of the power box** by 8–10 mm, then lift it off the side. The illustrations below use the left side (as seen from the front) as an example.



Note:

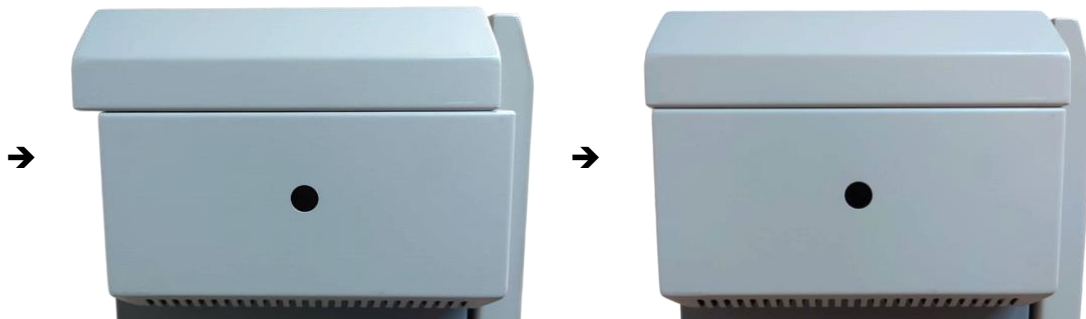
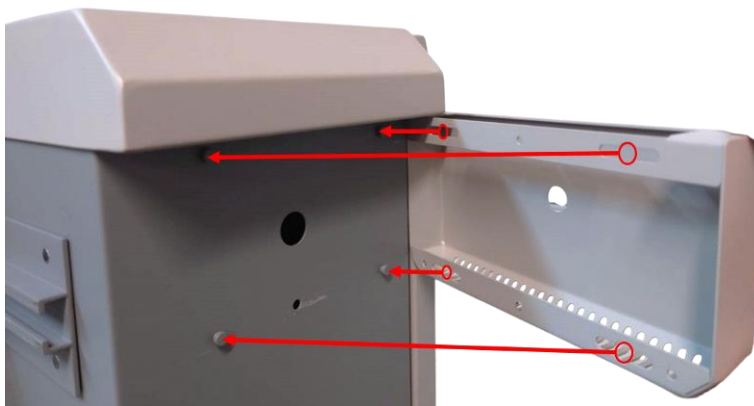
1. When installing the waterproof conduit fittings, the main part should be inside the enclosure, and the lid should be outside.
2. If you push the box by more than 1 mm toward the front, it cannot be removed. In that case, push it in the opposite direction until it protrudes by only 0.8–1 mm.

Initial Position		
Push by 0.8–1 mm		
Push by > 1 mm		

2. Install the supplied M16 waterproof cable glands (90°).



3. Reinstall the side boxes.



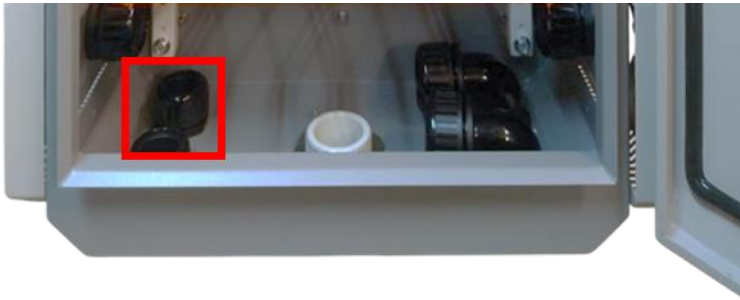
On the lower sections of the left and right sides of the power box

4. Install the supplied M32 waterproof conduit fittings (straight or 90°).



On the bottom side of the power box

5. Install the PF 3/4 waterproof conduit fittings (straight) near the left edge (as seen from the front).



6. Install the M32 waterproof conduit fittings (straight or 90°) near the right edge (as seen from the front).



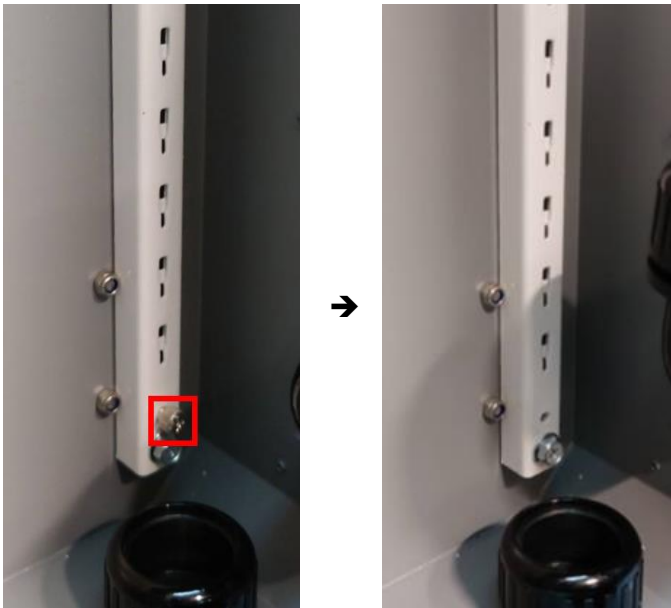
Route cables through

7. After installing the waterproof conduit fittings, you can now route cables through them.

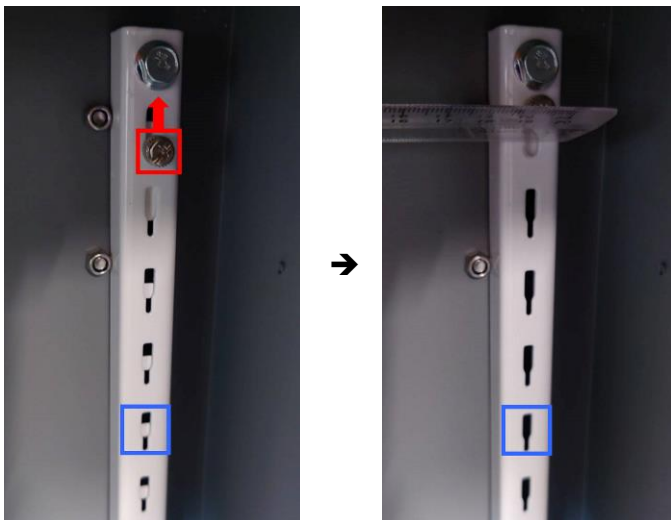
3.2 Quick Release Panel and DIN Rail

To provide flexible mounting for equipment, install the quick release panels and DIN rail as described below.

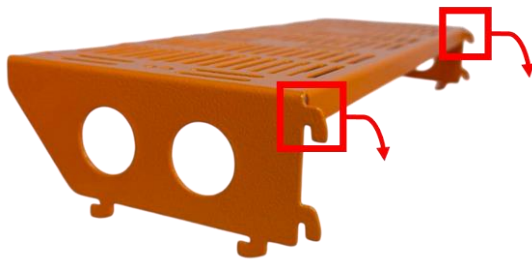
1. Remove the screws located **second from the bottom** of the rack rails.



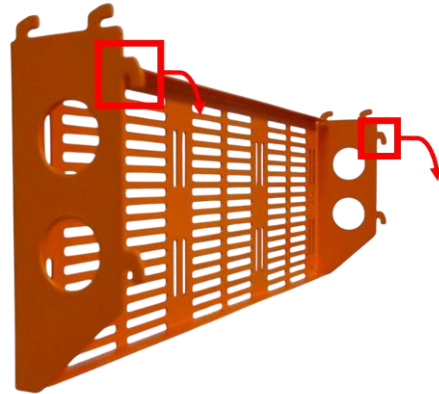
2. Loosen the screws located **second from the top** of the rack rails, and then lift them.



3. While holding the screws, insert the quick release panels into the desired position on the rack rails. The panels can be aligned **parallel to the bottom** or **parallel to the back** of the power box.



Parallel to the bottom of the power box



Parallel to the back of the power box

4. Release the screws to secure the panels in place, and then tighten the screws.



5. Reinstall the screws located **second from the bottom** of the rack rails.
6. Mount the DIN rail onto the installed quick release panels for additional equipment installation.

3.3 Door Sensor Baffle

To improve door sensor accuracy by blocking stray light, install the door sensor baffle as described below.

Note: The door sensor and screws are not included in the packing list.

1. Place the door sensor in the door sensor compartment.



2. Use appropriate screws to secure the supplied door sensor baffle to the door sensor compartment.



Chapter 4 GV-IP Camera / IP Speaker Installation

4.1 Installation on the Left or Right Side of the Power Box

Compatible **GV-IP Cameras and GV-IP Speakers** can be installed on the left or right side of the GV-G1 Power Box. Certain GV-IP Cameras require GV-Mount211-1 / 211-4 / 211-12 / 211-16 / 503-1 for installation.

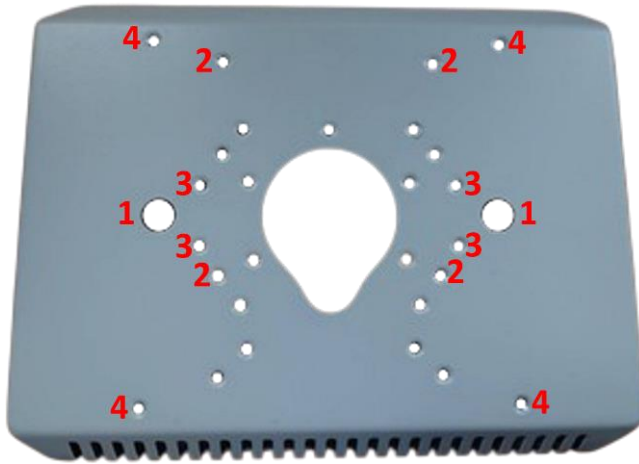
For the full list of compatible GV-IP Cameras, GV-IP Speakers, and GV-Mounts, see the [datasheet](#).



1. For GV-IP Cameras that require GV-Mount211-1 / 211-12 / 211-16 / 503-1 for installation, follow the steps in the [GV-A/T/EBD Series IP Camera Mount Installation Guide](#) to install the cameras onto the mounts.
2. For GV-IP Cameras that require GV-Mount211-4 for installation, follow the steps in the [GV-G Series IP Camera Mount Installation Guide](#) to install the cameras onto the mounts.

- To install GV-IP Cameras, GV-IP Speakers, and GV-Mounts onto the left or right side of the power box, use the supplied screws and nuts to secure them to the mounting plates attached to the sides of the power box.

Use M8 screws and nuts for GV-IP Speakers, and M4 screws and nuts for GV-Mounts and any GV-IP Cameras that connect directly to the mounting plate. For the mounting hole locations and model-specific installation instructions of GV-IP Speakers and GV-Mounts, see the figure and table below.



Model	Hole	Installation Instructions
GV-IPSH30 V2.0	1	Secure the bracket on the GV-IP Speaker to the mounting plate on the power box.
GV-Mount211-1 / Mount211-16 / Mount503-1	2	1. Unscrew the upper part of the GV-Mount to separate it from the mounting base. 2. Secure the mounting base to the mounting plate on the power box.
GV-Mount211-4	3	3. Reattach the upper part.
GV-Mount211-12	4	1. Unscrew the upper part of the GV-Mount to separate it from the mounting base. The mounting base is not used in this installation. 2. Secure the upper part to the mounting plate on the power box.

4.2 Installation on the Bottom Side of the Power Box

Compatible **GV-IP Cameras and GV-IP Speakers** can be installed on the bottom side of the GV-G1 Power Box. Certain GV-IP Cameras require GV-Mount706 for installation.

For the full list of compatible GV-IP Cameras, GV-IP Speakers, and GV-Mounts, see the [datasheet](#).



4.2.1 GV-Mount706 Adapter Ring



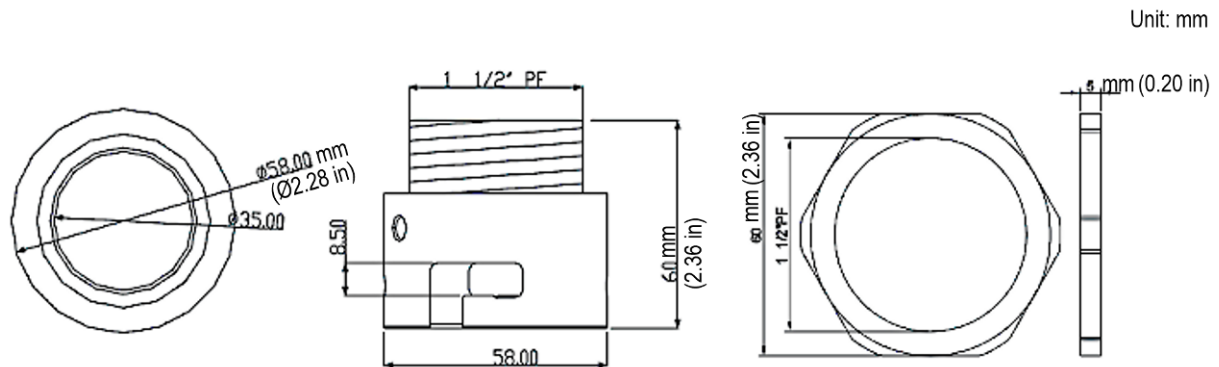
Packing List

1. Central Tube x 1	2. Brass Nut x 1
3. Screw Kit x 1 (includes Eye Bolt x 1, Hex Socket Screw (M8 x 10) x 2)	

Applicable Models

- GV-SD4825-IR

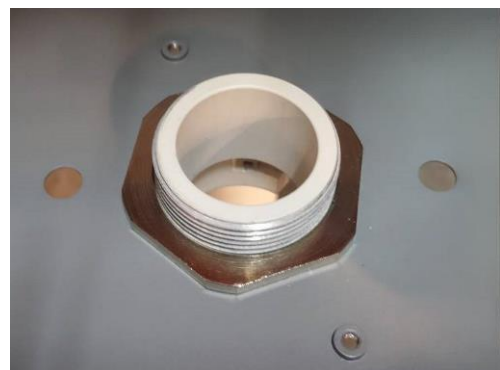
Dimensions



4.2.2 GV-Mount706 + GV-SD4825-IR Installation

To install **GV-Mount706** together with **GV-SD4825-IR** onto the bottom side of GV-G1 Power Box, follow the steps below.

1. Insert the supplied eye bolt and hex socket screws into the central tube of GV-Mount706. Do not fully tighten either of them, as a fully tightened eye bolt may interfere with the power box, and fully tightened hex socket screws may interfere with the camera during later installation.
2. Install GV-Mount706 onto the bottom side of the power box, with the central tube outside the enclosure and the brass nut inside.



3. Attach the safety lock of GV-SD4825-IR to the eye bolt to prevent it from falling.



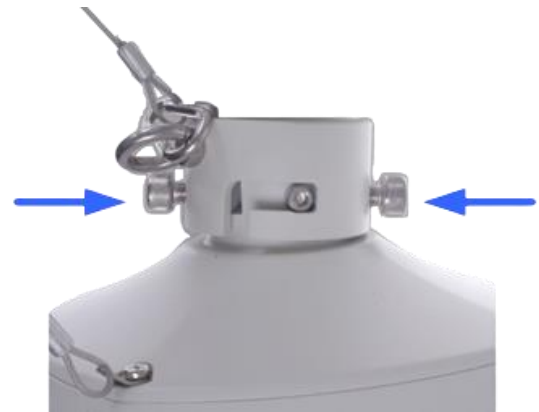
4. Thread the data cable through GV-Mount706 and into the power box.



5. Attach GV-SD4825-IR to GV-Mount706, and rotate the camera until it is locked into position.



6. Tighten the hex socket screws.



4.2.3 GV-TMS8800 / IP Speaker Installation

To install **GV-TMS8800** or a **GV-IP Speaker** onto the bottom side of the power box, use the supplied screws and nuts and follow the steps in the table below.

Use M8 screws and nuts for the GV-IP Speaker, and M3 screws and nuts for GV-TMS8800. For the mounting hole locations of each model, see the figure and table below.



Model	Hole	Installation Instructions
GV-TMS8800	1	<ol style="list-style-type: none"> 1. Unscrew the housing of the GV-IP Camera to separate it from the camera base. 2. Secure the camera base to the bottom side of the power box. 3. Reattach the housing.
GV-IPSH30 V2.0	2	Secure the bracket on the GV-IP Speaker to the mounting plate on the power box.