

1 Installing the VG4-A-ARMPLATE

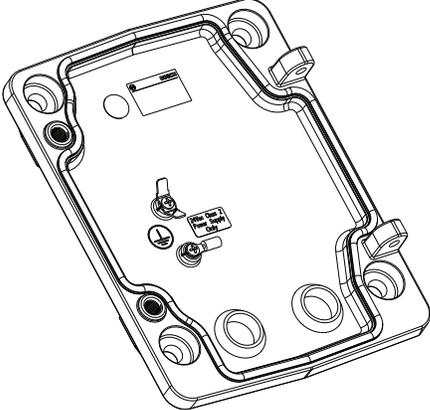
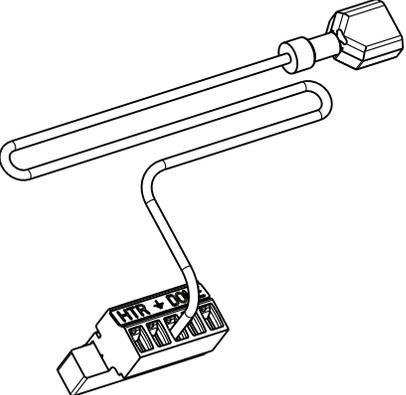
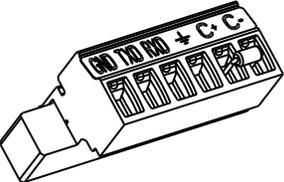
This addendum provides supplemental information for the AutoDome Modular Camera System *Installation Manual*. Use this addendum if you are using a wall, corner, or mast mount with the VG4-A-ARMPLATE Mounting Plate, instead of a Power Supply Box, to install a VG4 Series AutoDome.



WARNING! You must route the main power supply through a 120/230 VAC transformer (VG4-PSU1 or VG4-PSU2 power supply box) before connecting the power to a 24 VAC AutoDome.

1.1 Parts List

The VG4-A-ARMPLATE kit contains these parts:

Quantity	Description	
1	VG4-A-ARMPLATE Mounting Plate	
1	5-pin Power Mating Connector with Grounding Strap	
1	6-pin Communications Mating Connector with 100 Ω Resistor	
1	Liquid-tight Grommet	

1.2 Mount the Plate

1. Use the wall mount template supplied in the packaging box to locate the four mounting holes for the mounting plate.
2. Drill four (4) holes for the mounting anchors. If installing outdoors, apply a weatherproof sealant around each hole at the mounting surface.



WARNING! A stud diameter of 6.4 mm (1/4 inch) to 8 mm (5/16 inch) able to withstand a 120 kg (265 lb) pull-out force is recommended. The mounting material must be able to withstand this pull out force. For example, 19-mm (3/4-inch) minimum for plywood.

3. Secure the mounting plate to the mounting surface:
 - For a Wall installation: Use four (4) corrosion-resistant, stainless steel studs (not supplied). Then proceed to the next section.
 - For a Corner installation: Secure the Corner Plate to the wall corner using four (4) studs (not included). Then, secure the Mounting Plate to the Corner Plate using the four (4) 3/8 x 1-3/4-inch bolts and split lock washers (supplied).
 - For a Mast or a pole installation: The metal straps included with the Mast mount accommodate a pole with a diameter of 100–380 mm (4–15 in.). You must use a banding tool (sold separately) for a mast or pole installation. Follow the instructions provided with the banding tool to securely mount the Mast Plate to the pole. Contact your Bosch Sales Representative to order Banding Tool P/N TC9311PM3T.
4. Ensure that the mounting plate is secure and note the following:

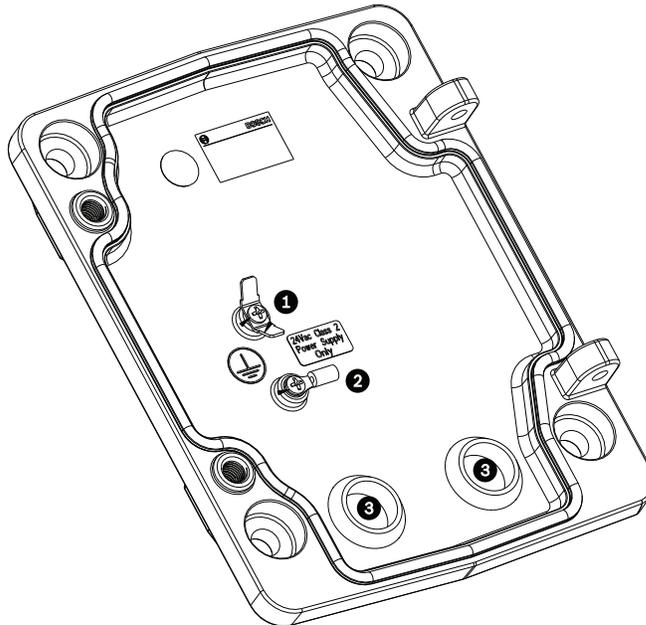


Figure 1.1 Mounting Plate - Inside Detail

Ref.	Description
1	Grounding lug with two spade terminals
2	Earth ground lug with crimp ring terminal
3	Wire input conduit holes with liquid tight-grommets

5. Remove the liquid-tight grommet (item 3) from the conduit hole through which you will route the wires. The easiest way to remove the grommet is to push on the back of the grommet from inside the VG4-ARMPLATE.

1.3 Attach the Pendant Arm to the Mounting Plate

The bottom hinge pin of the Pendant Arm is provided with a Hinge Pin Stop to hold the hinge open while attaching the arm to the Mounting Plate.

1. Compress the bottom hinge pin by pushing the pin lever downward and rotating it behind the Hinge Pin Stop.

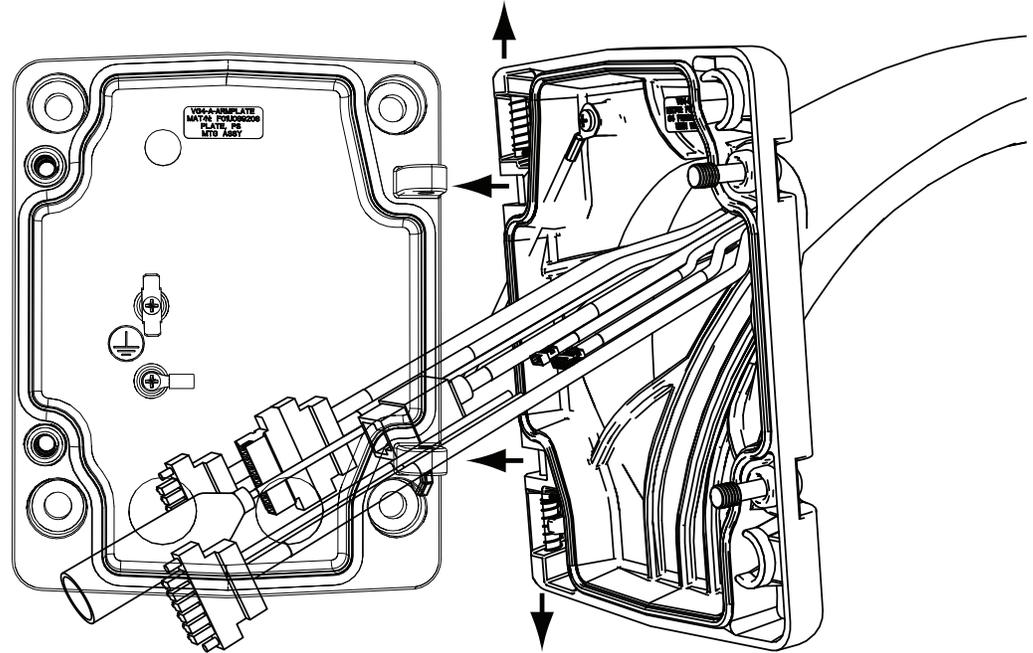


Figure 1.2 Connect Pendant Arm to Mounting Plate

2. Open the top hinge by pushing its pin lever up and holding it.



NOTICE! Both Hinge Pins must be fully compressed to open (unlock) the hinges of the Pendant Arm and before proceeding to the next step.

3. While continuing to hold the top hinge pin open, align the top and bottom hinges of the Pendant Arm to their mating points on the Mounting Plate. See *Figure 1.2*, above, for an illustration.
4. Once you have the hinges aligned, release the top hinge pin to engage its mating hinge on the Mounting Plate. Then release the bottom hinge pin from the Hinge Pin Stop to lock the Pendant Arm to the Mounting Plate.

1.4 Route and Connect Wires

The illustration below depicts the power and control cables connected to the Pendant Arm:

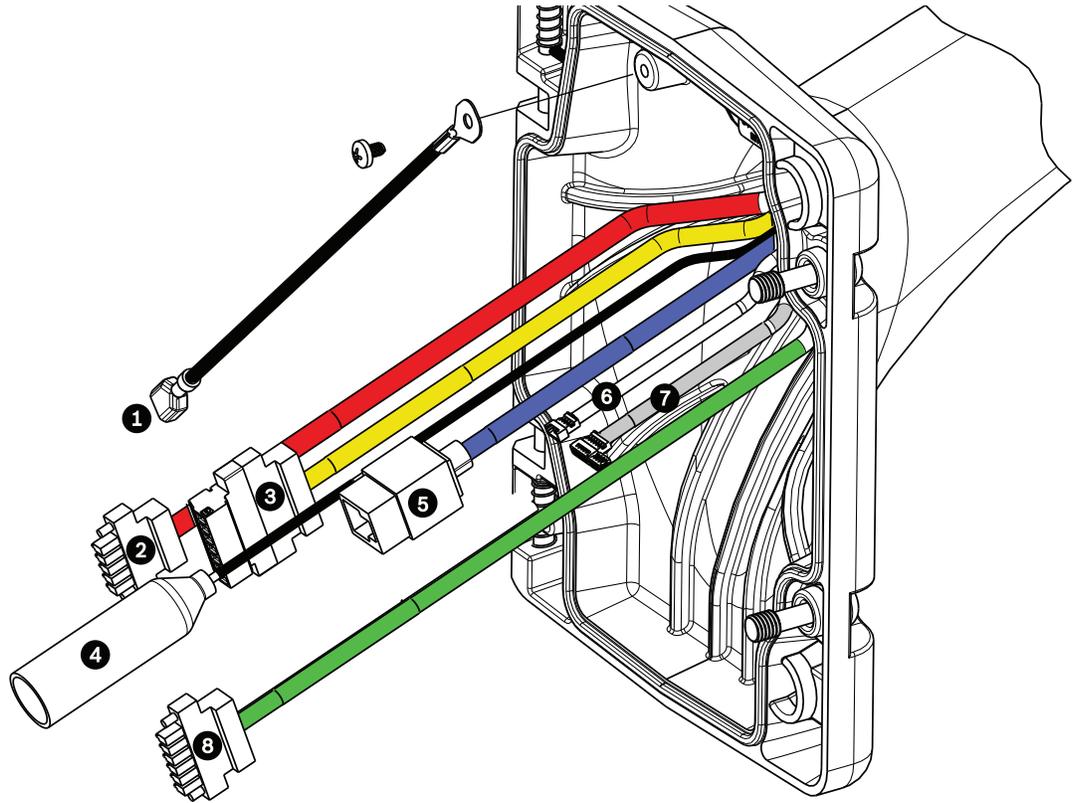


Figure 1.3 Pendant Arm Cables

Ref.	Cable	Ref.	Cable
1	Grounding Strap (black)	5	UTP Video/Ethernet (blue)
2	24 VAC Power (red)	6	Alarm Outputs (white)
3	Relay Contacts (yellow)	7	Alarm Inputs (gray)
4	Coax Video (black)	8	Serial Communications (green)

- Route all incoming wires through the open conduit at the bottom of the Mounting Plate.
- Attach the grounding spade terminal (item 1 in *Figure 1.3*) to one of the spade terminals inside the mounting plate.
- Connect the incoming 24 VAC power wires to the 5-pin, 24 VAC Power In mating connector (supplied with the Mounting Plate kit) for the Dome and for the Heater.
- Attach the grounding spade from the 5-pin mating connector to the other spade terminal inside the mounting plate.
- Attach the 5-pin Power In mating connector to the 24 VAC Power cable (item 2) connected to the pendant.
- Remove the mating connector from the Relay Contacts cable (item 3).
- Connect the incoming relay contact wires to the mating connector. Then, reattach the mating connector to the Relay Contacts cable.
- Connect the incoming video coax cable to the BNC connector (item 4) and slide its plastic cover over the connector.
- If using UTP for video or Ethernet, connect the incoming RJ45 video connector, installed previously, to the UTP Video/Ethernet cable (item 5). See *The AutoDome Modular Camera System Installation Manual* for connections and specifications.
- Connect the outgoing alarm wires to the flying leads coming from the 4-pin Alarm Outputs cable (item 6).

11. Connect the incoming alarms wires to the flying leads coming from the 6-pin Alarm Inputs cable (item 7).
12. Connect the incoming serial communication wires to the 6-pin mating connector supplied with the VG4-A-ARMPLATE kit. Ensure that the 100 Ω resistor remains connected to the Biphase C- and the Biphase C+ terminals. Remove the resistor only in the following cases:
 - If the AutoDome is not the last AutoDome in a daisy chain.
 - If the Biphase C- and the Biphase C+ terminals receive a line input audio signal.Refer to the AutoDome Modular Camera System *Installation Manual* for connection information.
13. Attach the 6-pin serial communication mating connector to the Serial Communication (item 8) cable.
14. Connect the Earth ground wire, if available, to the crimp ring terminal inside the Mounting Plate.

Note: The Earth ground is not provided with the VG4-A-ARMPLATE kit; it is a ground connection at the installed location.
15. After making the harness connections to the Mounting Plate, rotate the Pendant Arm to close and tighten the two (2) captive screws to 10-12 N-m (90-105 in.-lbs).



NOTICE! After all wiring is complete, close the cover door and tighten the two (2) captive screws on the cover door to 10-12 N-m (90-105 in.-lbs).

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