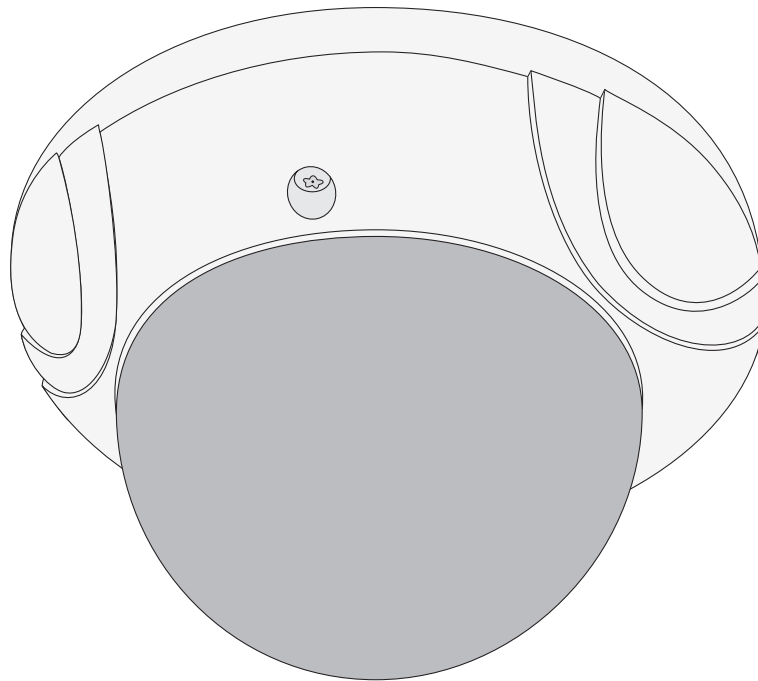


GE
Security

GE 16X PTZ Installation Manual



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Regulatory 

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Preface

This is the *GE 16X PTZ Camera Installation Manual* for models GEC-DV-16FN, GEC-DV-16SN, GEC-DV-16-FP, and GEC-DV-16SP. This document includes an overview of the product and detailed instructions explaining how to install your camera.

There is also information describing how to contact technical support if you have questions or concerns.

To use this document effectively, you should have the following minimum qualifications:

- a basic knowledge of CCTV systems and components; and
- a basic knowledge of electrical wiring and low-voltage electrical connections.

Read these instructions and all other documentation entirely before installing or operating this product. The most current versions of this and related documentation may be found on our website. Refer to [Online resources](#) on page 36 for instructions on accessing our online publication library.

Note: A qualified service person, complying with all applicable codes, should perform all required hardware installation.

The following conventions are used in this document:

Bold	Menu items and buttons.
<i>Italic</i>	Emphasis of an instruction or point; special terms.
	File names, path names, windows, panes, tabs, fields, variables, and other GUI elements.
	Titles of books and various documents.
<i>Blue italic</i>	(Electronic version.) Hyperlinks to cross-references, related topics, and URL addresses.
Monospace	Text that displays on the computer screen.
	Programming or coding sequences.

Safety terms and symbols

These terms may appear in this manual:



CAUTION: *Cautions* identify conditions or practices that may result in damage to the equipment or other property.



WARNING: *Warnings* identify conditions or practices that could result in equipment damage or serious personal injury.

Product overview

The GE 16X PTZ cameras are designed for installation in indoor/outdoor video surveillance systems. The camera incorporates the digital signal processor, pan/tilt mechanism, a 16X zoom lens, and an RS-485 communication interface in a compact enclosure.

Product contents

The GE 16X PTZ Camera system consists of the following

- Camera
- Power and data cables
- Optional camera mounting bracket
- Safety wire
- Allen wrench
- Installation template
- Junction board

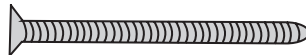
Mounting hardware

Pendant/surface type camera. This type of camera comes with three type of screws:

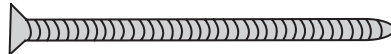
M3 (2). Used for installing the safety cable bracket.



Screw #6 (4). Used for installing mounting bracket.



Screw #8 (3). Used for installing camera to bracket.



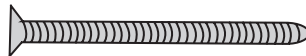
The pendant/surface type camera also comes with a lower surface-mount assembly bracket (1 piece), and an upper assembly bracket (2 pieces).

Flush type camera. This type of camera comes with two types of screws:

M3 (2). Used for installing the safety cable bracket.



Screw #6 (4). Used for installing mounting bracket.



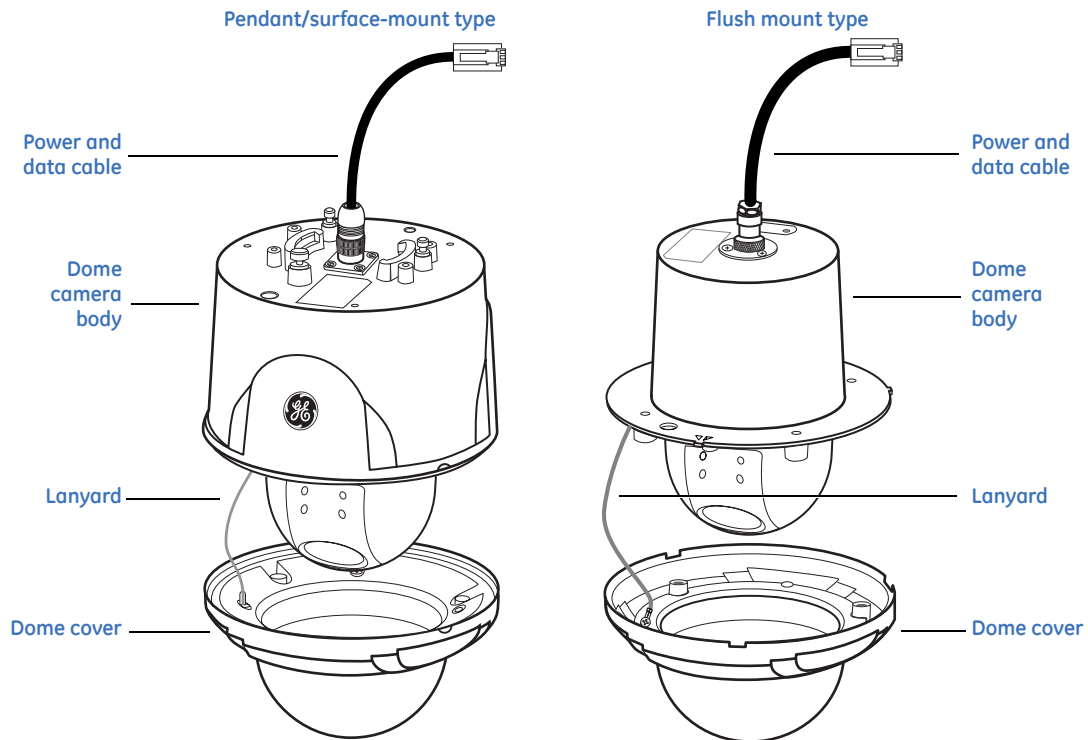
The pendant/surface type camera also comes with a lower flush mount assembly bracket (1 piece), and an upper assembly bracket (2 pieces).

Inspect the package and contents for visible damage. If any components are damaged or missing, do not use the unit; contact the supplier immediately. If you need to return the unit, you must ship it in the original box.

Camera components

Figure 1 shows basic camera components. The camera mounting bracket is optional for surface installation.

Figure 1. Camera components



Note: Pendant-mount type configurations have an IP66 environmental rating. Flush-mount and surface-mount configurations do not.

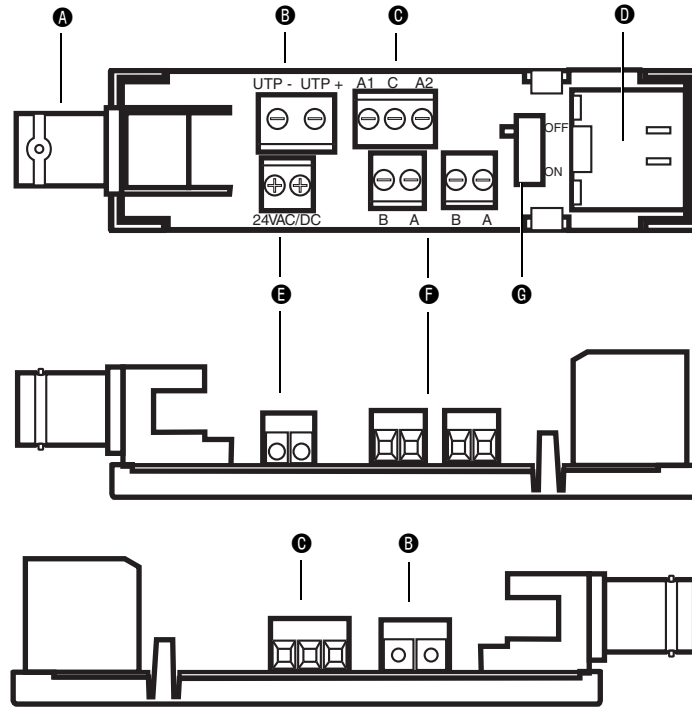


CAUTION: Do not expose the power and data cable to moisture, this may cause leakage into the housing and damage the camera. If you must, please make sure that the connections are sealed tightly.

Junction board

Figure 2 shows the junction board components.

Figure 2. Junction board



- Ⓐ Video output jack with BNC connector
- Ⓑ Video output terminal with UTP connector
- Ⓒ Alarm input (sensor input) terminal (A1: Alarm Input 1 / A2: Alarm Input 2)
- Ⓓ RJ45 connector
- Ⓔ 24 VAC/24 VDC terminal (UL listed class 2 power supply only)
- Ⓕ Data communication port
- Ⓖ Daisy chain termination on/off switch

Connections

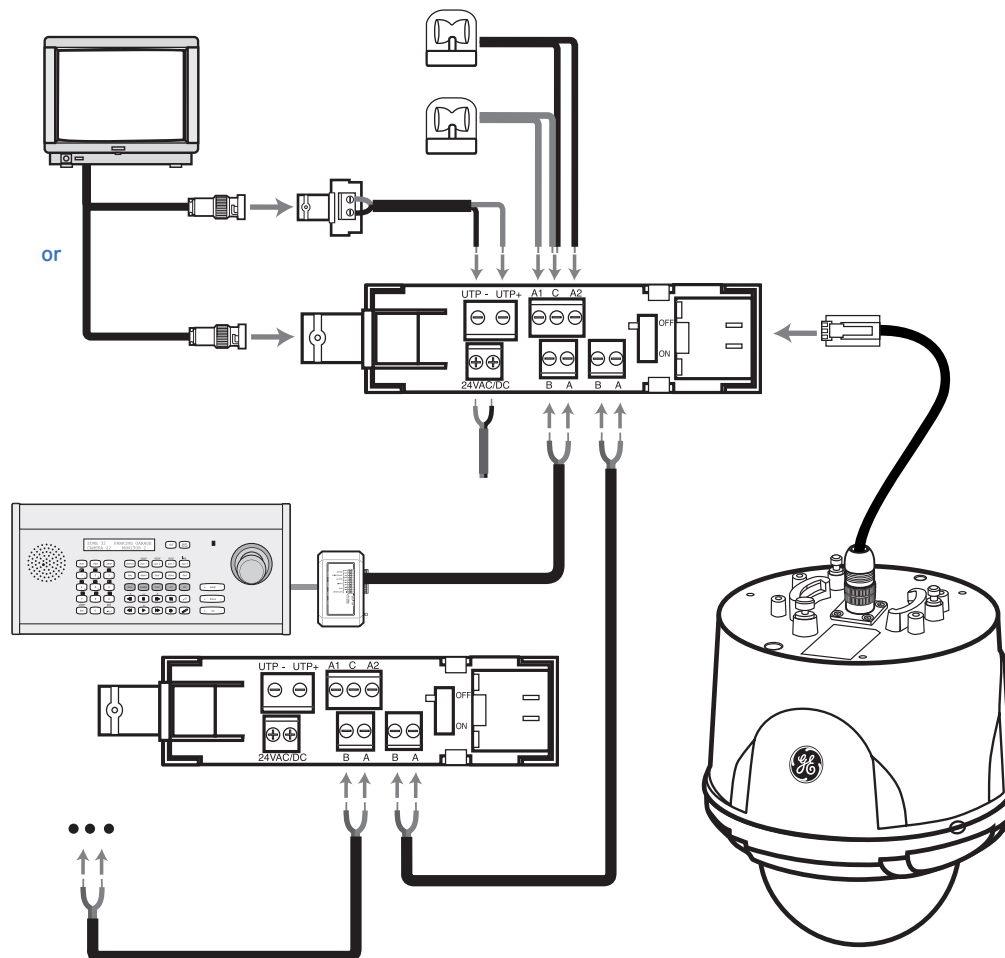
A qualified service person, complying with all applicable codes, should perform all required hardware installation.

Note: Do not attempt to extend the power/data cable connection using RJ45 couplers and Cat5 cable. Only use the data cable connection provided.

Note: Use 24 VAC / 24 VDC. (use a UL listed Class 2 power source only.)

Figure 3 shows a typical camera installation.

Figure 3. Camera installation sample



CAUTION:

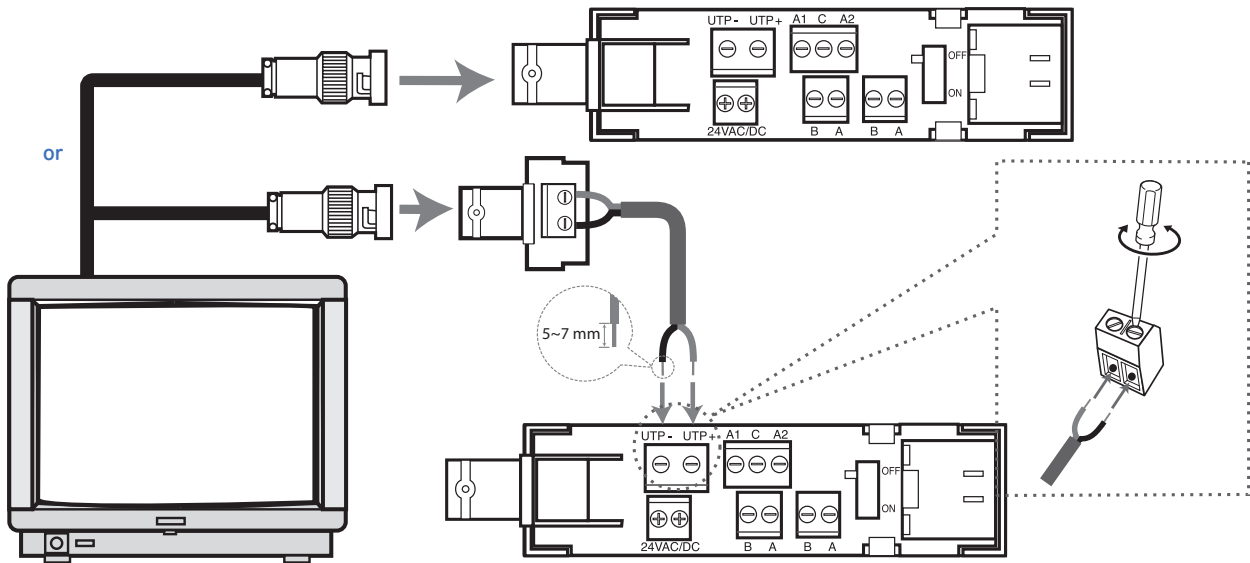
Do not expose the power and data cable to moisture, which may cause damage to the camera. If you cannot avoid installing the camera in a damp area, please make sure that the connections are sealed tightly.

Pendant-mount configurations have an IP66 environmental rating. Flush-mount and surface-mount configurations do not.

Monitor

Figure 4 shows the video signal connection between the camera and the monitor.

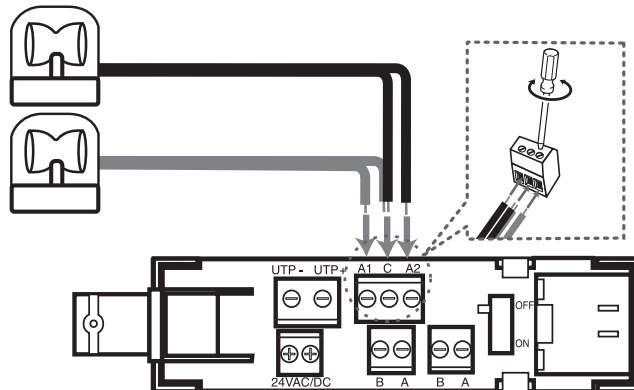
Figure 4. Monitor connection



Alarm input

You can connect up to two alarm sensors to the camera (Figure 5). Connect each alarm sensor to C (Common). You can adjust the signal state to NO (normally open) or NC (normally closed) through the setup menu.

Figure 5. Alarm input connections



Power source

Connect only a 24 VAC/24 VDC UL listed Class 2 power source to the power input terminal (*Figure 6*).

Figure 6. Power source connection

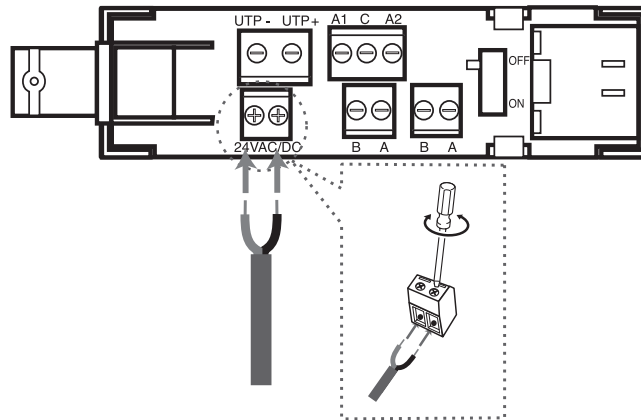


Table 1. Power requirements

Model	Maximum power
Flush mount (dome without fan)	16 VA
Surface mount (dome with fan x3)	25 VA

Table 2. Power cable size and length requirements

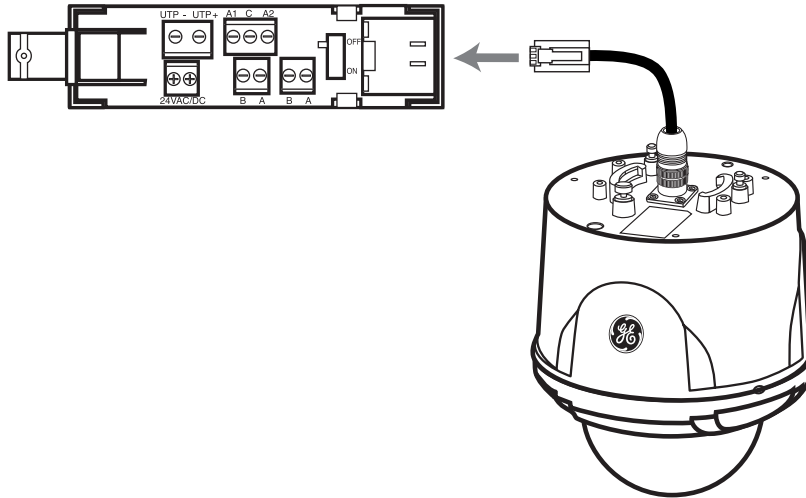
Wire gauge		Flush mount (16 VA)		Surface mount (25 VA)	
AWG	mm ²	feet	meter	feet	meter
14	1.62	744	226	465	141
16	1.29	469	143	293	89
18	1.02	295	89	185	56
20	0.81	186	56	117	35
22	0.64	116	35	73	22

RJ45 cable

Connect the RJ45 cable from the camera to the RJ45 jack of the junction board (*Figure 7*).

Note: Do not attempt to extend the power/data cable connection using RJ-45 couplers. Only use the cable connection provided.

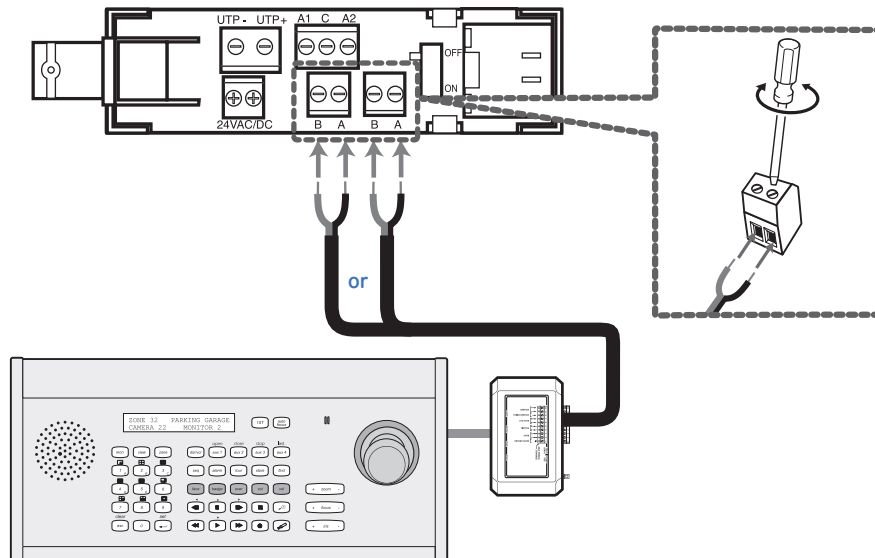
Figure 7. RJ45 cable connection



KTD-405/KTD-405A keypad

Connect the KTD-405/KTD-405A keypad to either data terminal on the junction board (*Figure 8*). These data terminals are interchangeable.

Figure 8. KTD-405/KTD-405A connection



Length and type of the RS-485/422 cable

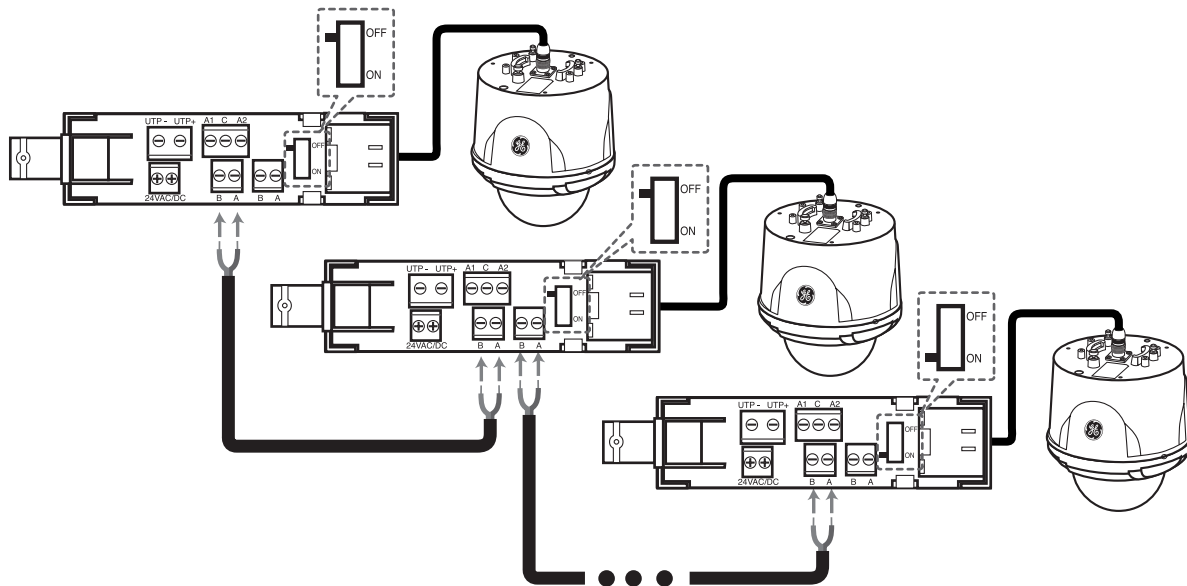
RS-422 Digiplex and RS-485 Impac cable can be 22 gauge, twisted-pair, and have a maximum length of 3900 feet (1,200 meters).

Connecting multiple GE 16X PTZ cameras in parallel

If you choose to daisy chain multiple cameras in the field, leave all camera termination switches off except for the last camera in the chain which should be on (*Figure 9*). The cameras may not function properly if they are not terminated correctly.

Note: If you are connecting only one GE 16X PTZ Camera to the junction board, you must set the termination switch to ON.

Figure 9. Multiple cameras connection



Installation

Use the following installation guidelines:

- A qualified service person, complying with all applicable codes, should perform all required hardware installation.
- Do not install the camera near the air outlet of an air conditioner.
- Be sure to hook the lanyard (fall prevention wire) onto a bracket.
- Seal cable parts tightly and do not expose them to rain or damp environments.
- Use a 24 VAC/24 VDC UL listed class 2 power supply only.
- When turned on, camera does a self-check, including panning, tilting, zooming, and focusing operation.

Note: Pendant-mount type configurations are IP66 environmentally rated. Flush-mount and surface-mount configurations are not.



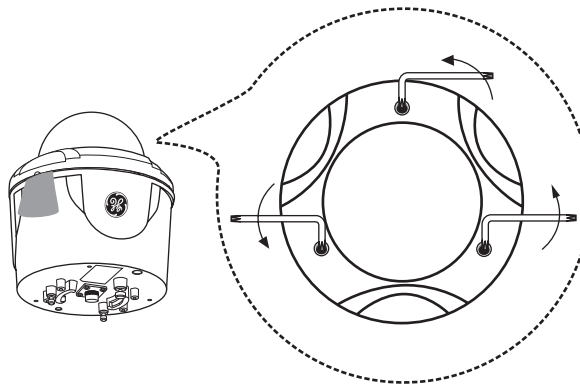
WARNING: Be sure to switch the camera off before installation and connection.

Removing the protective tape

Before using the camera, you must remove the protective tape. To remove the tape, do the following:

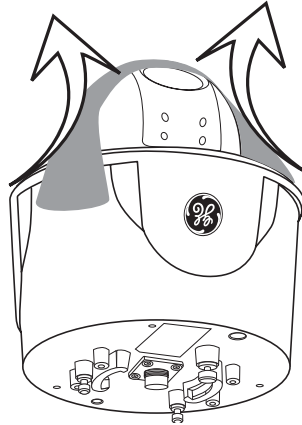
1. Use the supplied Allen wrench to loosen the screws and remove the dome cover (*Figure 10*).

Figure 10. Loosen dome screws



2. Carefully remove the protective tape (*Figure 11*).

Figure 11. Removing protective tape



Protocol and baud rate settings

The camera has two 4-bit DIP switch blocks that determine the protocol and baud rate of the data communication. Settings are loaded when the camera boots up. Be sure to turn the camera off, change the DIP switch settings, and then power the camera back up to load the changes.

Note: If you have difficulty accessing the dip switches when the camera is installed, remove the camera shroud.

Figure 12. Camera shroud

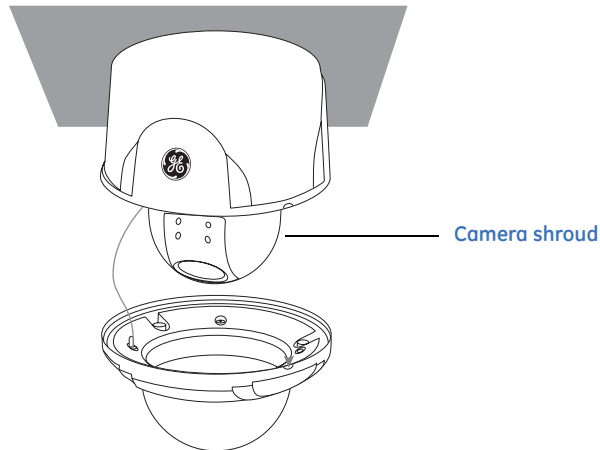
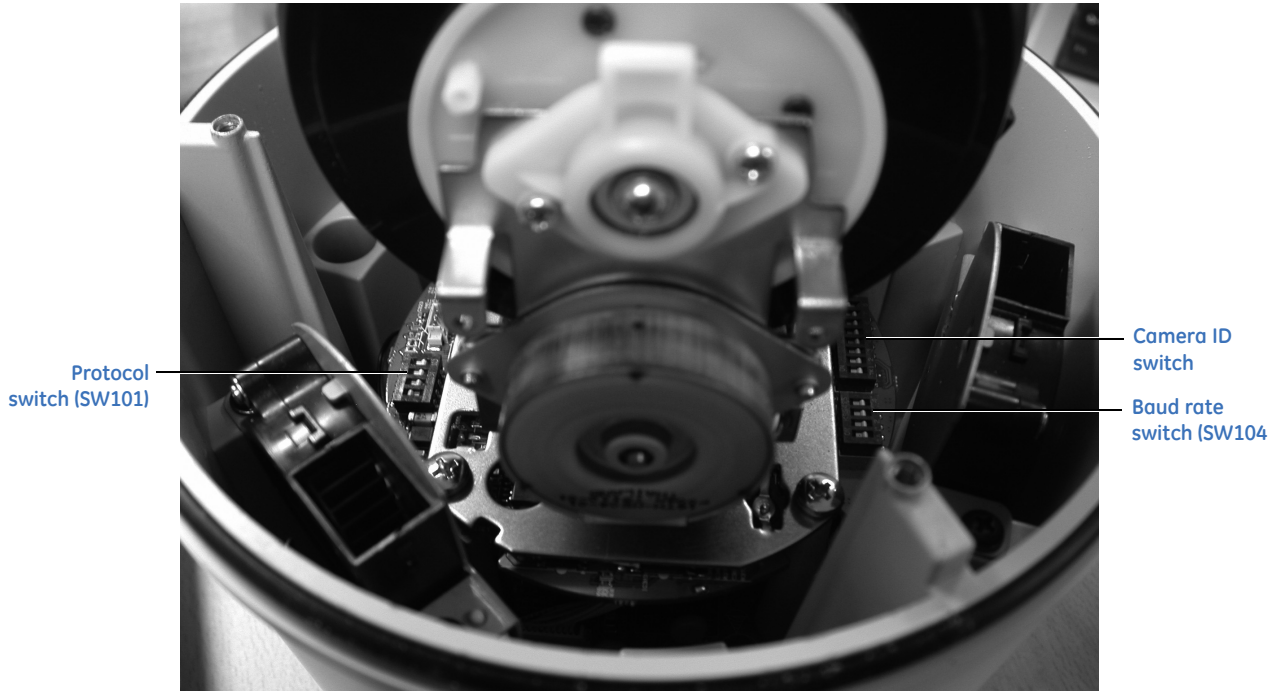


Figure 13. DIP switch locations



To set protocol (SW101) and baud rate parameters (SW104), do the following:

1. Turn the camera off.
2. The SW104 DIP switch on the bottom of the camera (*Figure 14* on page 12) sets the baud rate. Use *Table 3* to find the correct sequence of 1s (on) and 0s (off) for the baud rate that you want to use.

Note: SW104 is located next to the 8-bit camera ID DIP switch.

Figure 14. SW104



Table 3. SW104 baud settings

Switch position	Baud
0, 0, 0, 0	9,600 bps
0, 0, 0, 1	1,200 bps
0, 0, 1, 0	2,400 bps
0, 0, 1, 1	4,800 bps (default)

Switch position	Baud
0, 1, 0, 0	19,200 bps
0, 1, 0, 1	38,400 bps
0, 1, 1, 0	57,600 bps
0, 1, 1, 1	115,200 bps

Note: The baud rate for Digiplex 422 is 4800. The baud rate for IMPAC RS-485 is 9600. The baud rate for ASCII is 9600. The Pelco P/D protocol requires no specific baud rate.

- The SW101 DIP switch on the bottom of the camera (*Figure 15*) sets the protocol. Use *Table 4* to find the correct sequence of 1s (on) and 0s (off) for the protocol that you want to use.

Note: SW101 is located on the opposite side of the board from the 8-bit camera ID DIP switch.

Figure 15. SW101



Table 4. SW101 protocol settings

Switch position	Protocol
1, 1, 1, 1	Digiplex 422 (default)
1, 0, 1, 1	ASCII
0, 1, 1, 1	IMPAC RS-485
0, 0, 1, 1	Pelco-D
1, 1, 0, 1	Pelco-P
0, 1, 0, 1	Reserved 4
1, 0, 0, 1	Reserved 5
0, 0, 0, 1	Reserved 6

Switch position	Protocol
1, 1, 1, 0	Reserved 7
0, 1, 1, 0	Reserved 8
1, 0, 1, 0	Reserved 9
0, 0, 1, 0	Reserved 10
1, 1, 0, 0	Reserved 11
0, 1, 0, 0	Reserved 12
1, 0, 0, 0	Reserved 13
0, 0, 0, 0	Reserved 14

- Power up the camera to load the changes.

Camera ID setting

The camera’s ID is set to “1” as default. If you use two or more cameras simultaneously, change the ID of the cameras.

To set the camera ID, do the following:

- Locate the 8-bit camera ID DIP switch block on the bottom of the camera.
- Using *Figure 16* and *Table 5*, determine how to set the DIP switches for the desired camera ID.
- Place the switches that correspond to those values in the on position.

Figure 16. Camera ID DIP switch

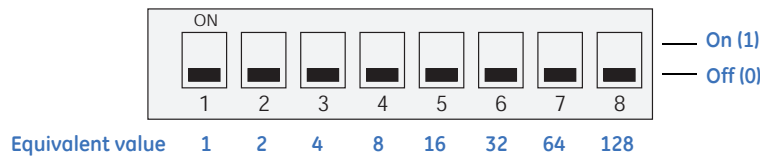


Table 5. Camera ID DIP switch settings

#	Switch	#	Switch	#	Switch	#	Switch	#	Switch	#	Switch	#	Switch	#	Switch
0	00000000	32	00000100	64	00000010	96	00000110	128	00000001	160	00000101	192	00000011	224	00000111
1	10000000	33	10000100	65	10000010	97	10000110	129	10000001	161	10000101	193	10000011	225	10000111
2	01000000	34	01000100	66	01000010	98	01000110	130	01000001	162	01000101	194	01000011	226	01000111
3	11000000	35	11000100	67	11000010	99	11000110	131	11000001	163	11000101	195	11000011	227	11000111
4	00100000	36	00100100	68	00100010	100	00100110	132	00100001	164	00100101	196	00100011	228	00100111
5	10100000	37	10100100	69	10100010	101	10100110	133	10100001	165	10100101	197	10100011	229	10100111
6	01100000	38	01100100	70	01100010	102	01100110	134	01100001	166	01100101	198	01100011	230	01100111
7	11100000	39	11100100	71	11100010	103	11100110	135	11100001	167	11100101	199	11100011	231	11100111
8	00010000	40	00010100	72	00010010	104	00010110	136	00010001	168	00010101	200	00010011	232	00010111
9	10010000	41	10010100	73	10010010	105	10010110	137	10010001	169	10010101	201	10010011	233	10010111
10	01010000	42	01010100	74	01010010	106	01010110	138	01010001	170	01010101	202	01010011	234	01010111
11	11010000	43	11010100	75	11010010	107	11010110	139	11010001	171	11010101	203	11010011	235	11010111
12	00110000	44	00110100	76	00110010	108	00110110	140	00110001	172	00110101	204	00110011	236	00110111
13	10110000	45	10110100	77	10110010	109	10110110	141	10110001	173	10110101	205	10110011	237	10110111
14	01110000	46	01110100	78	01110010	110	01110110	142	01110001	174	01110101	206	01110011	238	01110111
15	11110000	47	11110100	79	11110010	111	11110110	143	11110001	175	11110101	207	11110011	239	11110111
16	00001000	48	00001100	80	00001010	112	00001110	144	00001001	176	00001101	208	00001011	240	00001111
17	10001000	49	10001100	81	10001010	113	10001110	145	10001001	177	10001101	209	10001011	241	10001111
18	01001000	50	01001100	82	01001010	114	01001110	146	01001001	178	01001101	210	01001011	242	01001111
19	11001000	51	11001100	83	11001010	115	11001110	147	11001001	179	11001101	211	11001011	243	11001111
20	00101000	52	00101100	84	00101010	116	00101110	148	00101001	180	00101101	212	00101011	244	00101111
21	10101000	53	10101100	85	10101010	117	10101110	149	10101001	181	10101101	213	10101011	245	10011111
22	01101000	54	01101100	86	01101010	118	01101110	150	01101001	182	01101101	214	01101011	246	01101111
23	11101000	55	11101100	87	11101010	119	11101110	151	11101001	183	11101101	215	11101011	247	11101111
24	00011000	56	00011100	88	00011010	120	00011110	152	00011001	184	00011101	216	00011011	248	00011111
25	10011000	57	10011100	89	10011010	121	10011110	153	10011001	185	10011101	217	10011011	249	10011111
26	01011000	58	01011100	90	01011010	122	01011110	154	01011001	186	01011101	218	01011011	250	01011111
27	11011000	59	11011100	91	11011010	123	11011110	155	11011001	187	11011101	219	11011011	251	11011111
28	00111000	60	00111100	92	00111010	124	00111110	156	00111001	188	00111101	220	00111011	252	00111111
29	10111000	61	10111100	93	10111010	125	10111110	157	10111001	189	10111101	221	10111011	253	10111111
30	01111000	62	01111100	94	01111010	126	01111110	158	01111001	190	01111101	222	01111011	254	01111111
31	11111000	63	11111100	95	11111010	127	11111110	159	11111001	191	11111101	223	11111011	255	11111111

Mounting the camera

You can mount the camera on a ceiling or wall.

Flush-mount

A flush-mount type camera is required for this installation.

Note: The flush-mounted camera housing is not IP66 rated.

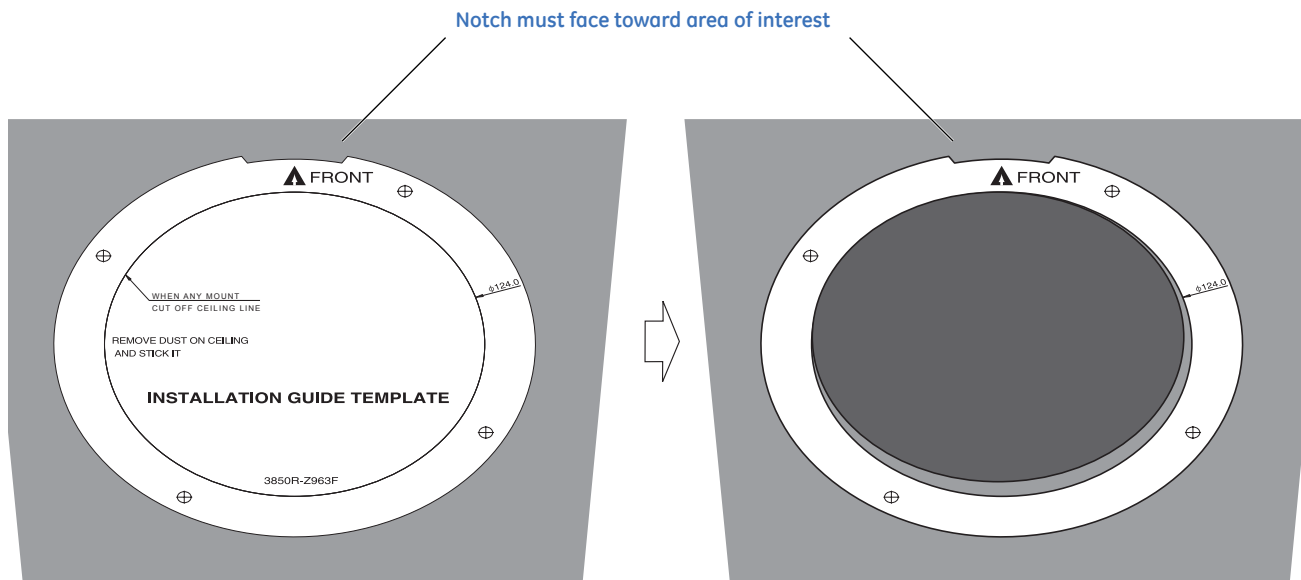
To flush mount the camera, do the following:

1. Use the installation guide template to check the mounting location. Face the front of the label toward the area of interest. Using the template as a guide, make a hole through the ceiling (*Figure 17*).



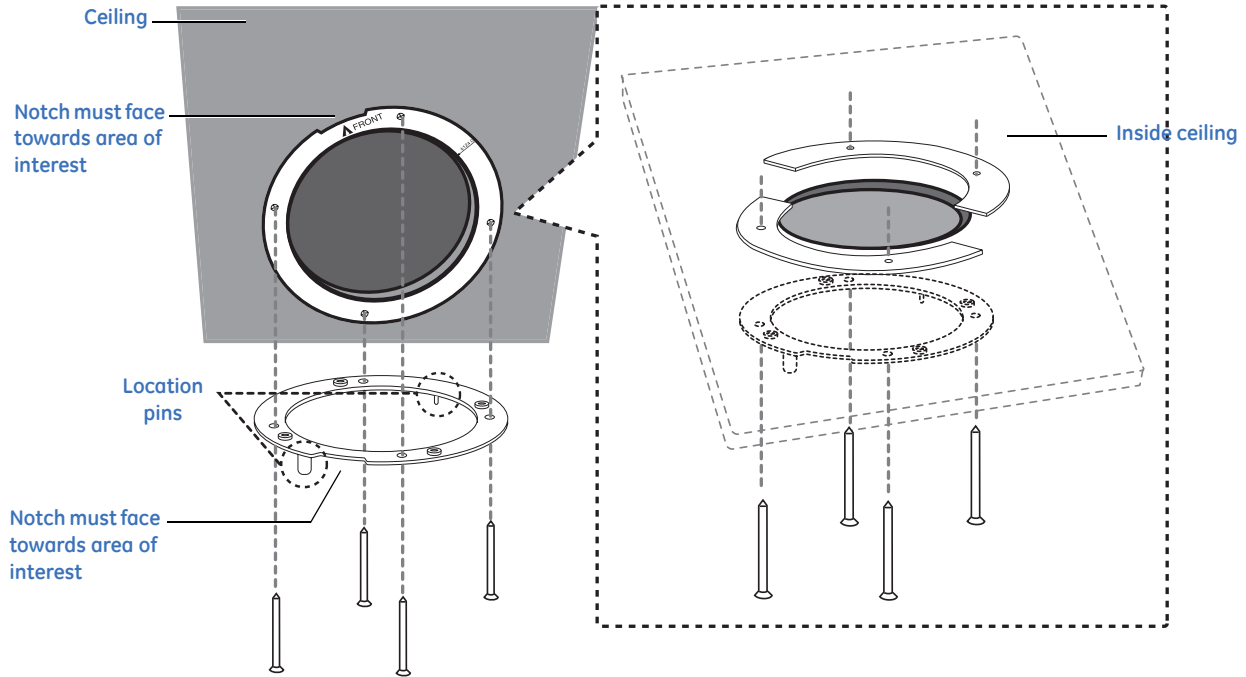
CAUTION: The building superstructure must be able to support 80 lb. (36 kg).

Figure 17. Installation guide template



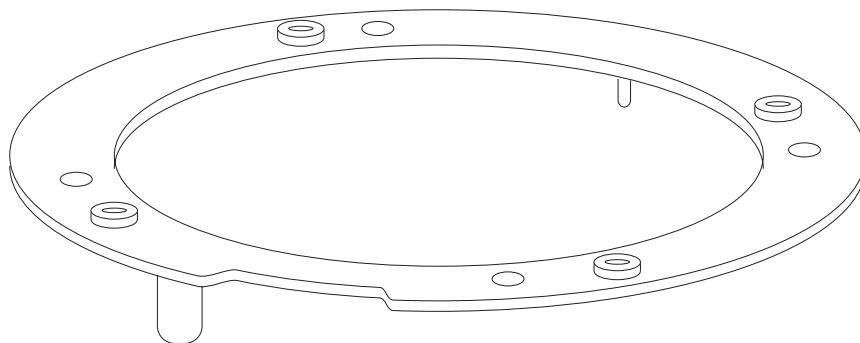
2. Fasten the camera assembly bracket to the ceiling. Face the location pins downward (*Figure 18*).

Figure 18. Camera assembly bracket



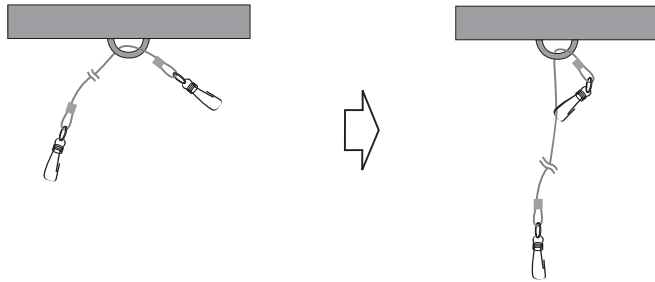
Note: For this installation, you must use the bracket depicted in *Figure 19*. The GE 16X PTZ camera models have different brackets that are designed to work with specific models

Figure 19. Flush-mount bracket



3. Fasten the dome safety cable to the building superstructure (*Figure 20*). The building superstructure can vary depending on your installation environment.

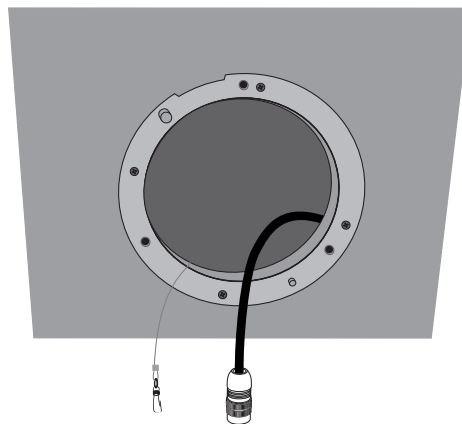
Figure 20. Dome safety cable



CAUTION: The building structure must be able to support 80 lb. (36 kg).

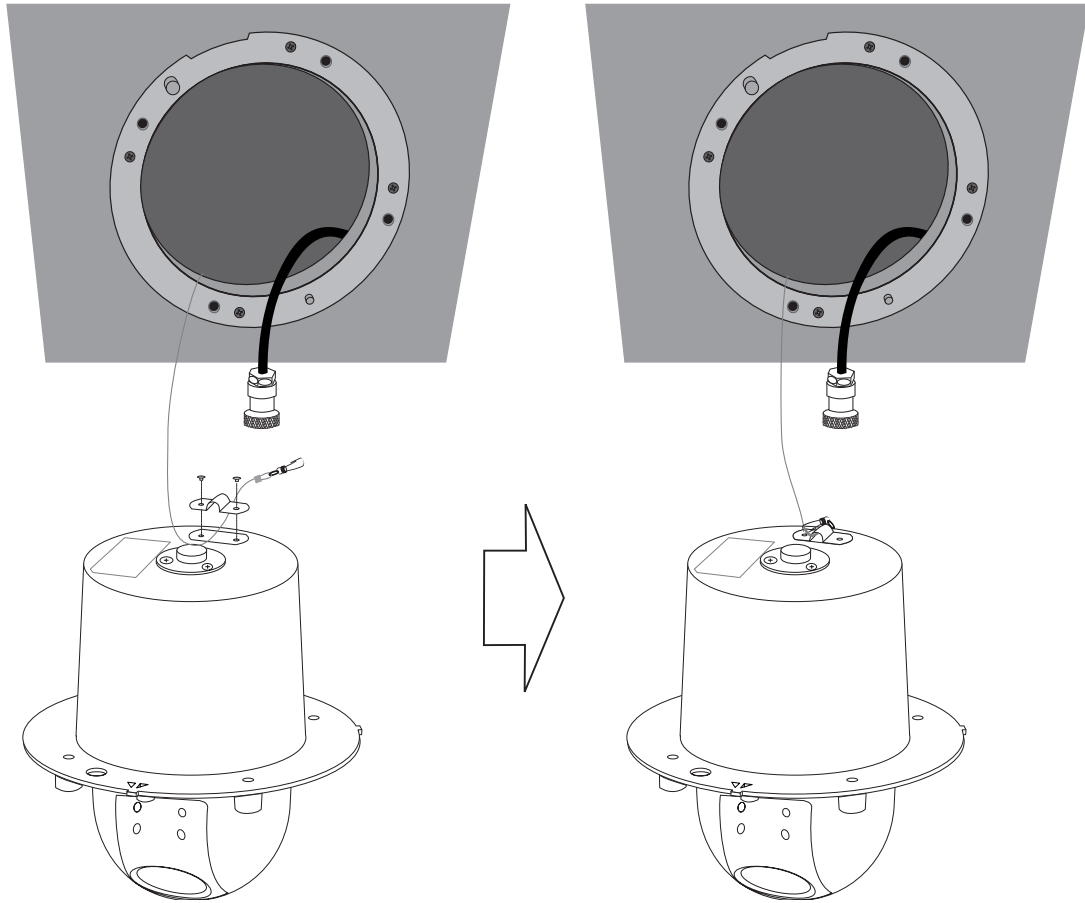
4. Pass the connection cable and the safety cable through the hole so that they hang down (*Figure 21*).

Figure 21. Connection cable



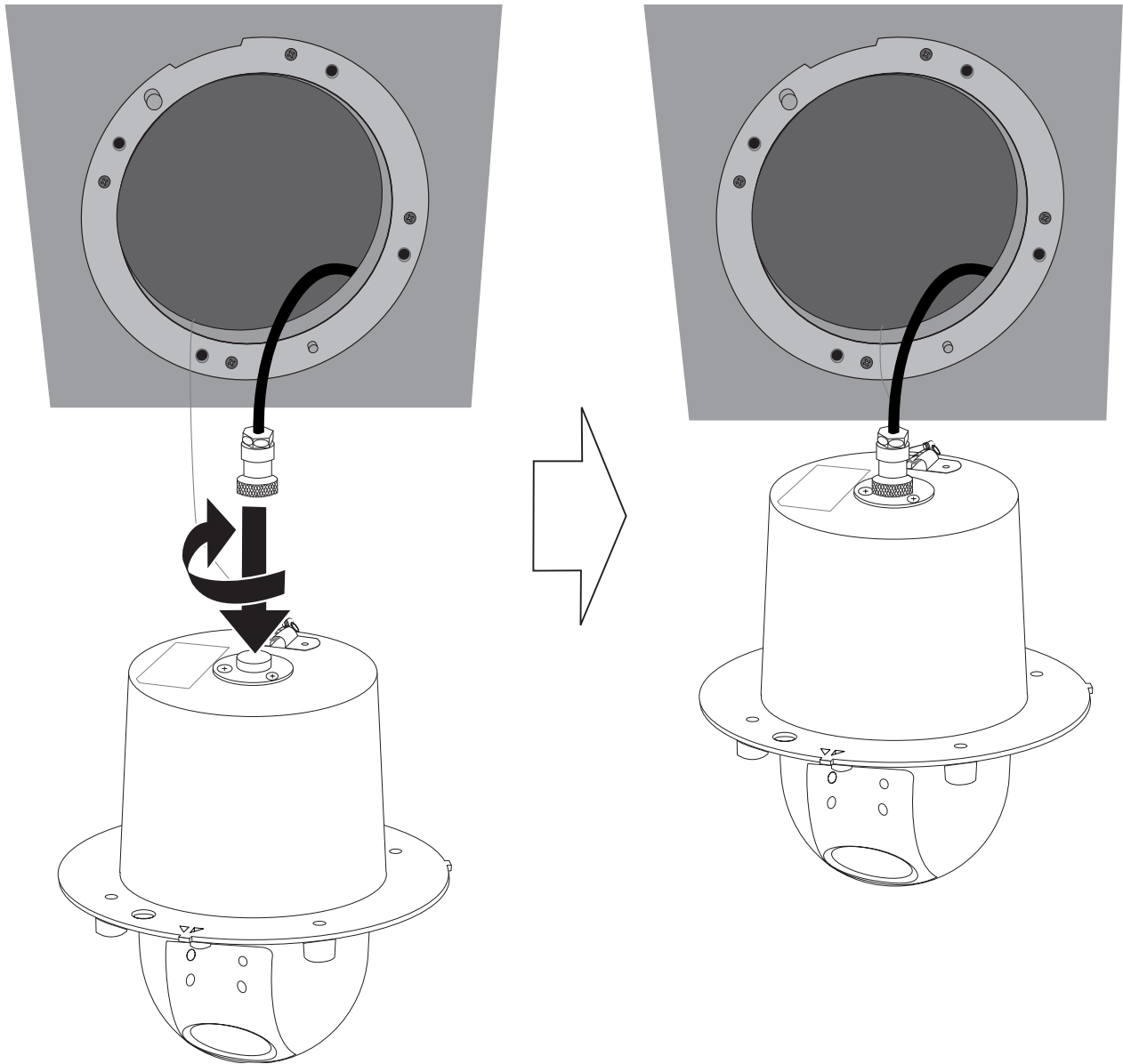
5. Using the two smallest screws in the mounting hardware kit, connect the safety cable to the camera body with the safety bracket (*Figure 22*).

Figure 22. Safety cable to camera



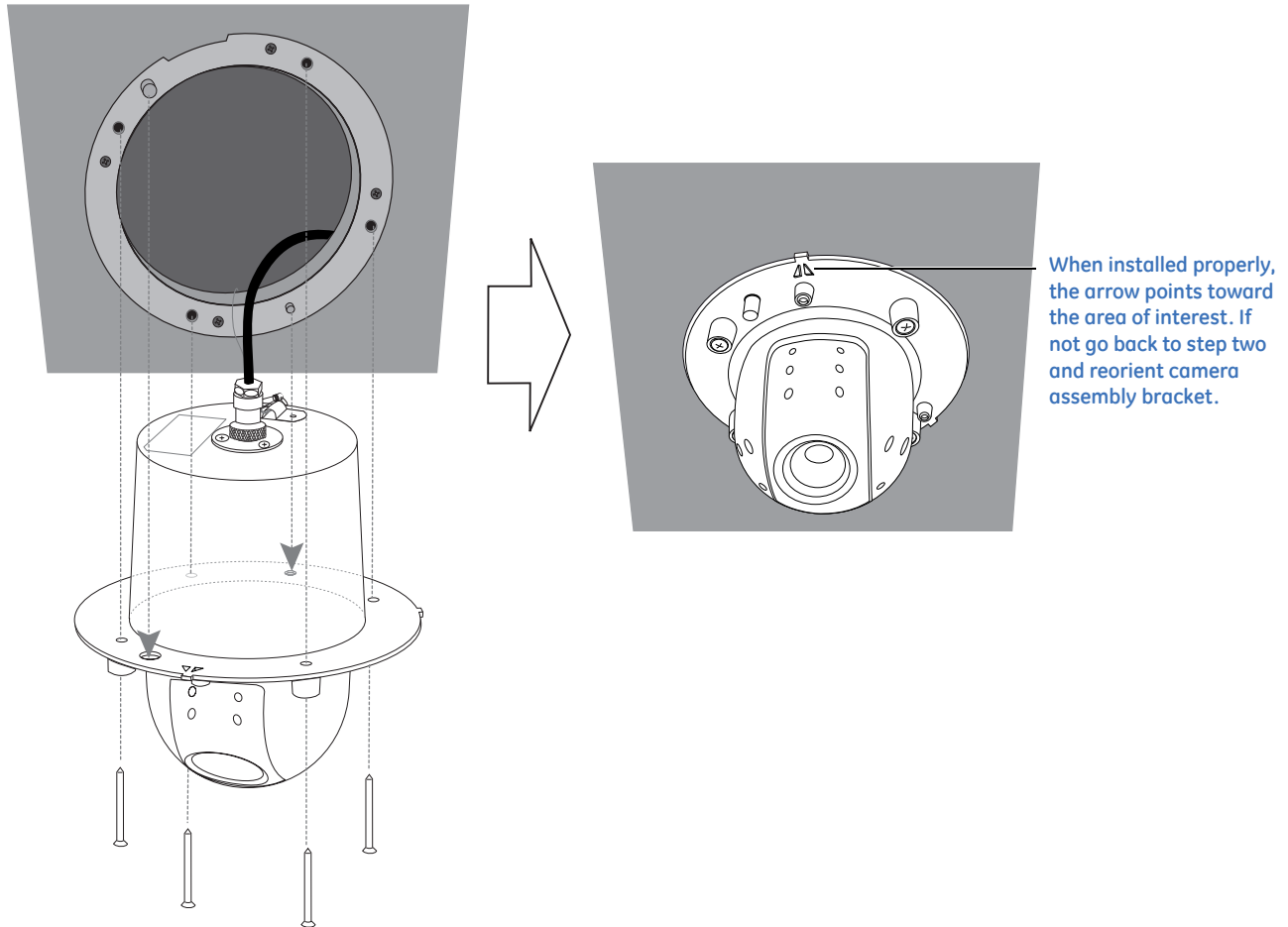
6. Connect the cable to the terminal on the camera body (*Figure 23*).

Figure 23. Cable connection



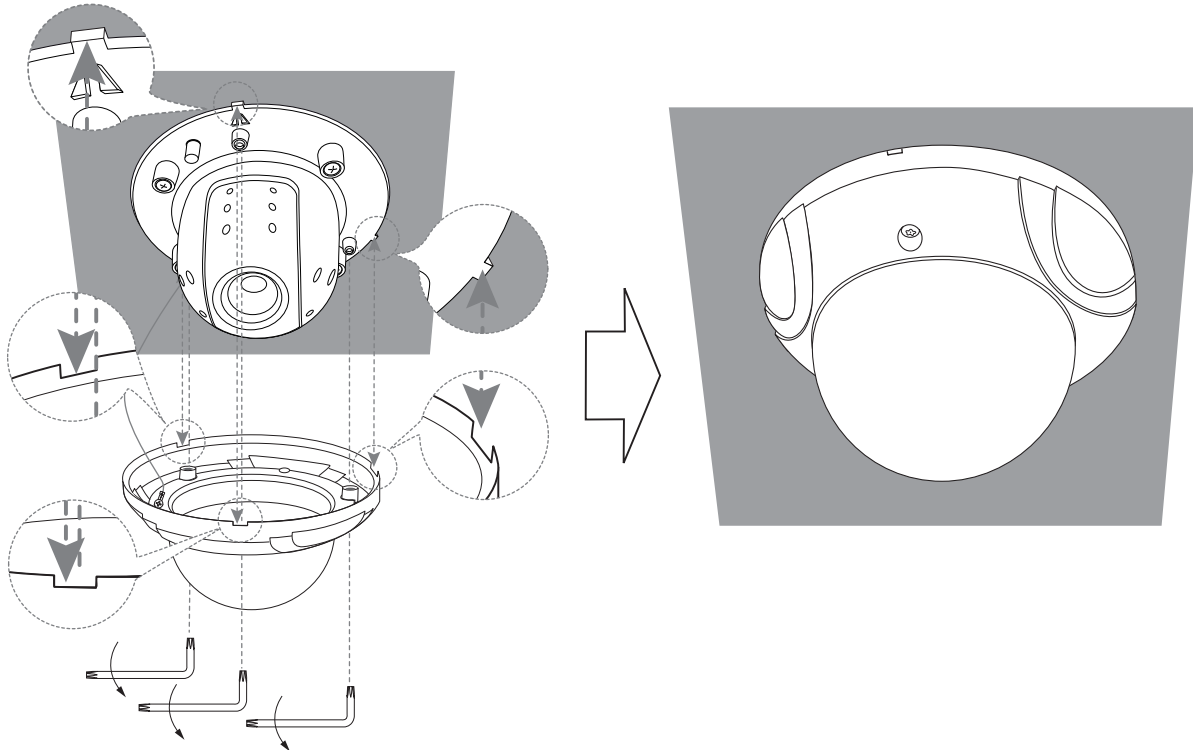
7. Fasten the camera body to the camera assembly bracket (*Figure 24* on page 20). For proper orientation, use the location pins to align the camera.

Figure 24. Camera body to bracket installation



8. Assemble the camera cover and camera body. Fasten the screws using the supplied Allen wrench (*Figure 25*).

Figure 25. Camera cover assembly



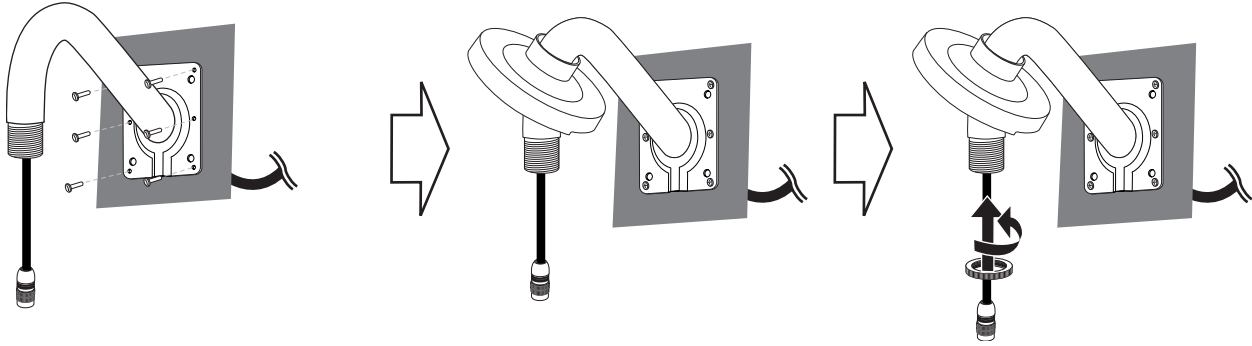
Optional wall-mount

Note: Requires a pendant/surface type camera along with wall-mount kit GEC-DV-WM.

To wall-mount the camera, do the following:

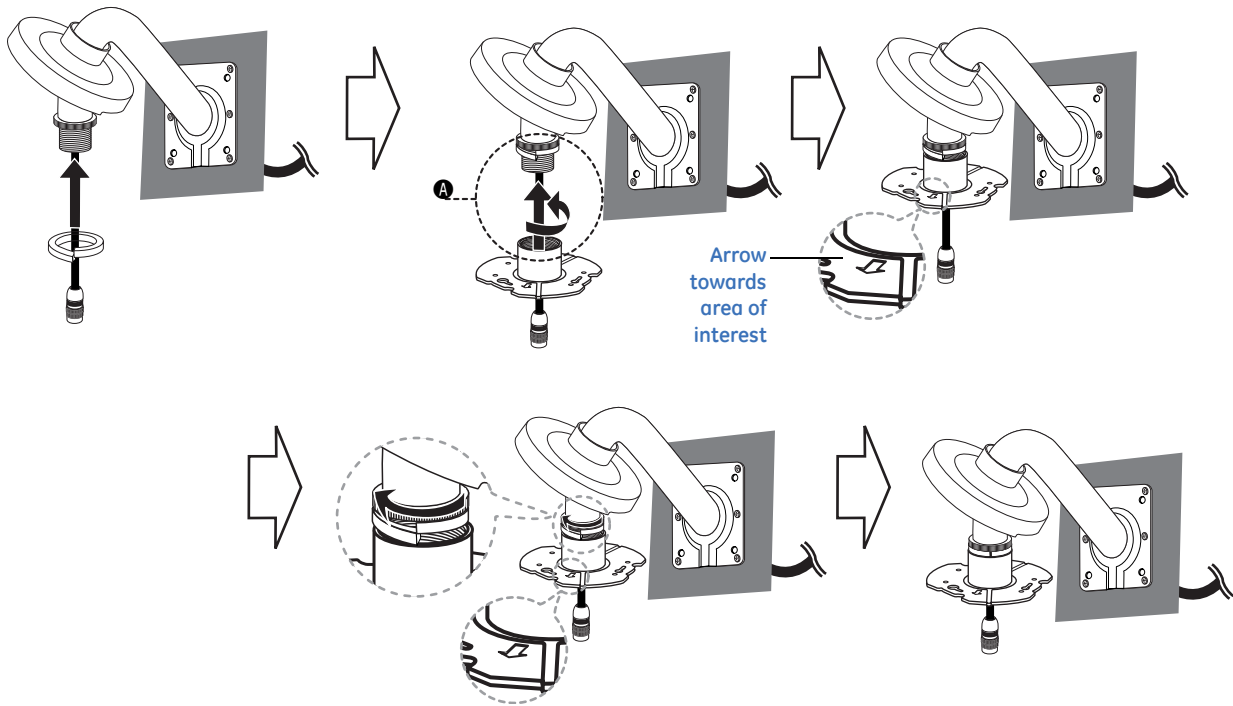
1. Drill holes in the wall where you want to install the wall-mount.
2. Install the wall-mount (*Figure 26* on page 22).

Figure 26. Pipe installation



3. Install the camera installation bracket (Figure 27).

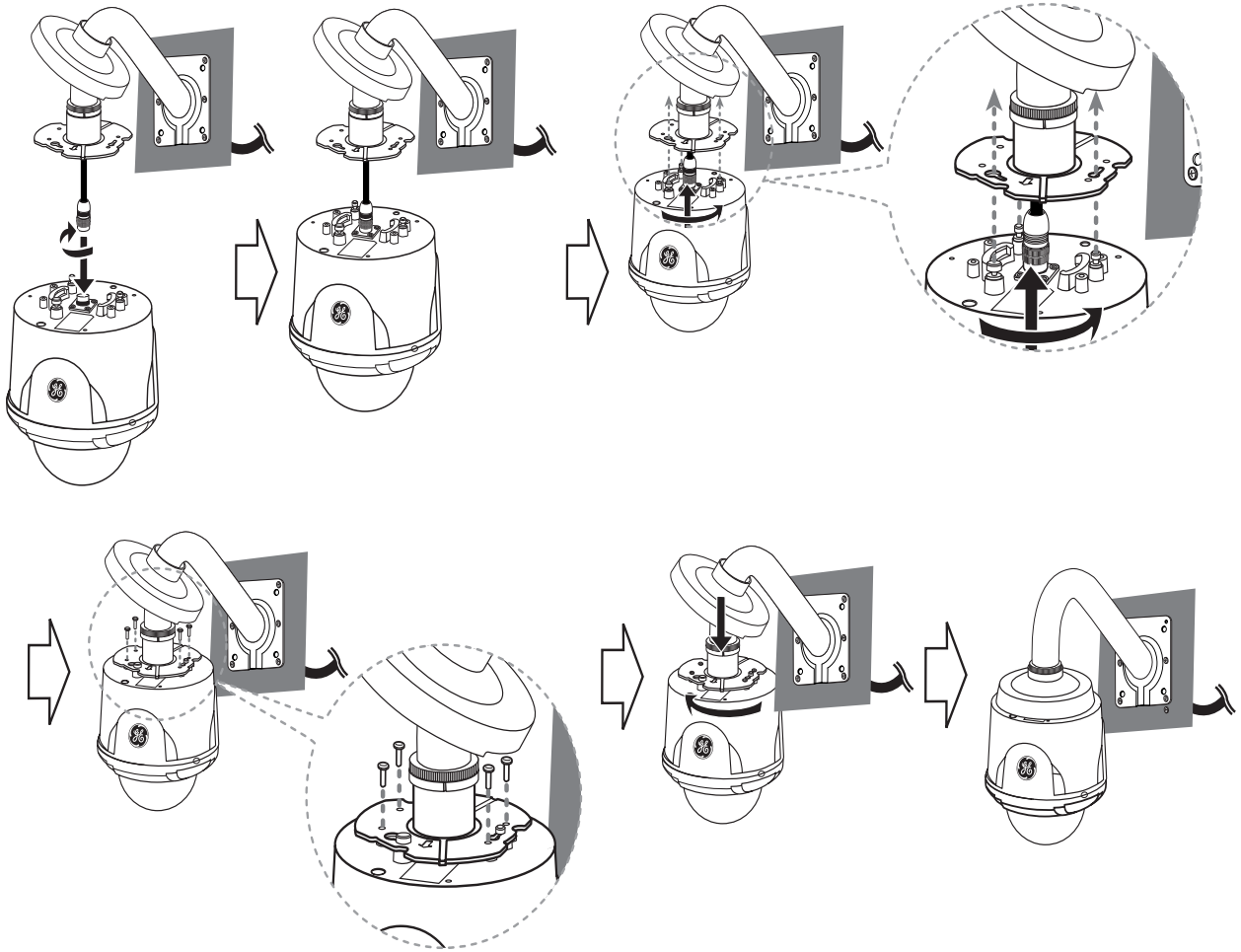
Figure 27. Camera installation bracket



Pipe threads should be clean and rust-free. Use a sealer such as PTFE tape and silicone sealer on the threads **A**.

4. Connect the RJ45 cable to the RJ45 camera jack and attach the camera to the installation bracket (Figure 28).

Figure 28. RJ45 cable and camera installation



Note: If properly installed, the GE logo should face toward the area of interest, or in this case, away from the wall. If it does not, go back to step 3 and readjust camera installation bracket.

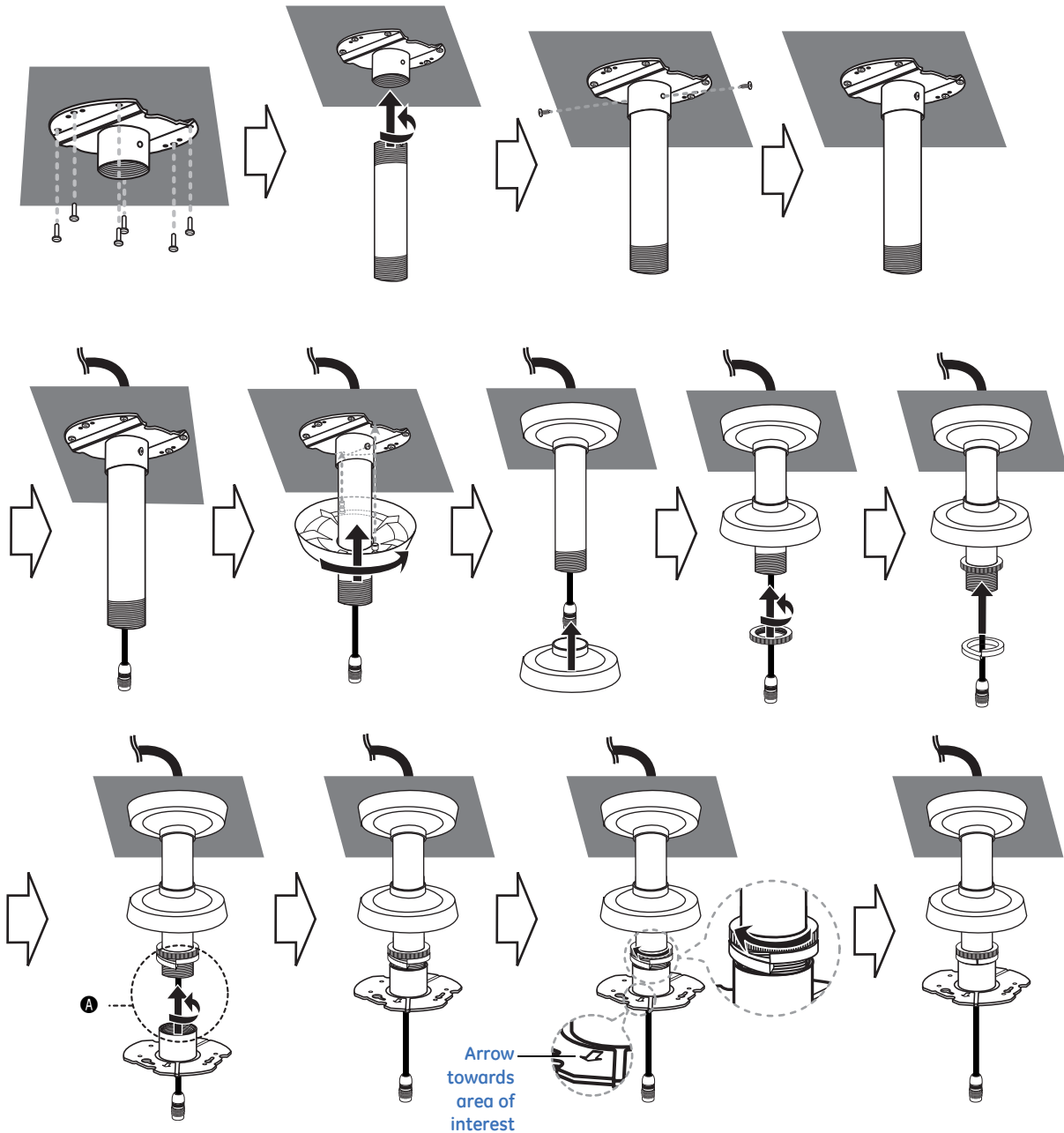
Optional pendant-mount

The pendant-mount kit GEC-DV-PM is for installation of a pendant/surface type camera.

To install the camera with a pendant-mount, do the following:

1. Install the pipe and camera installation bracket (*Figure 29*).

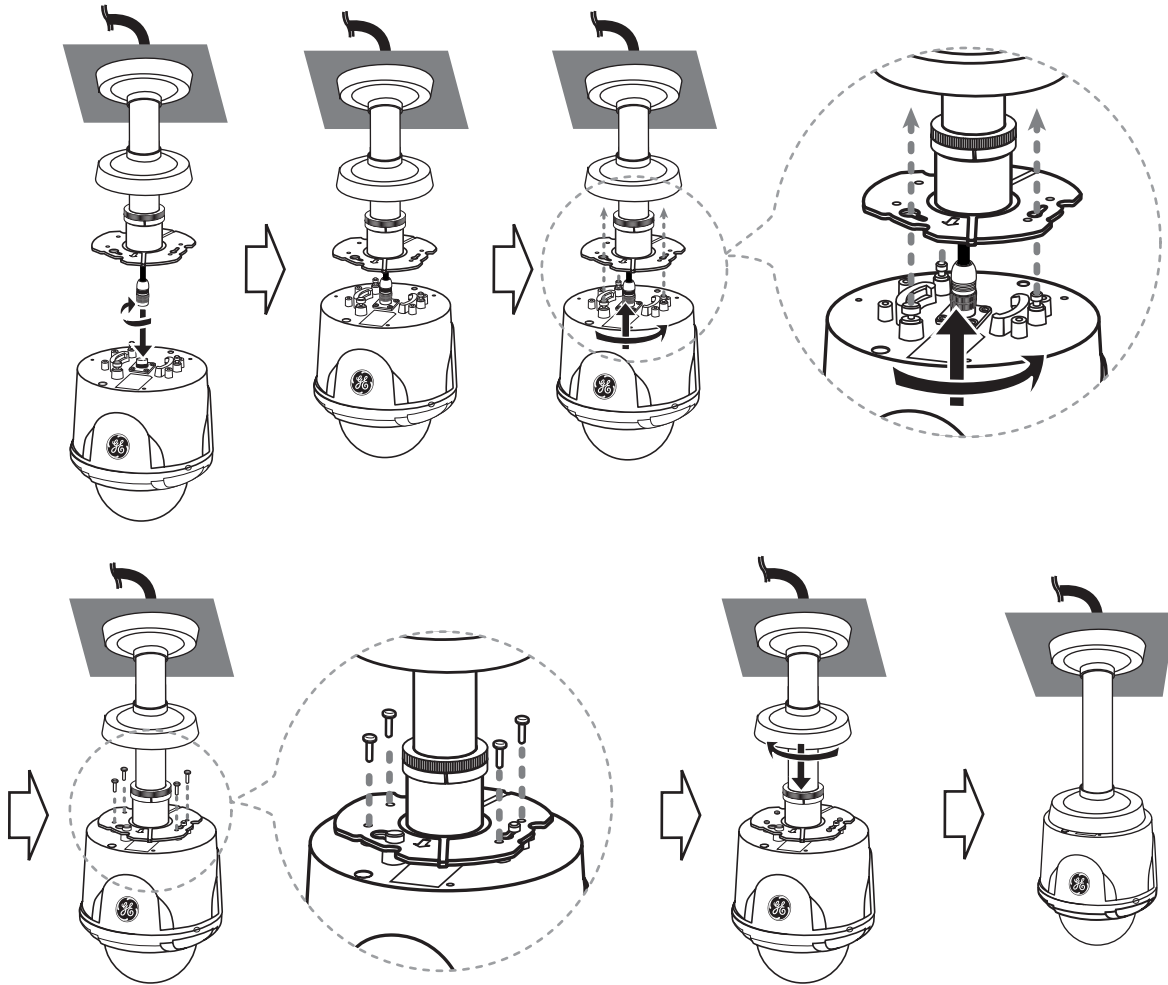
Figure 29. Pipe and camera installation bracket



Pipe threads should be clean and rust-free. Use a sealer such as PTFE tape or silicone sealer on the threads of both ends of the pipe ①.

2. Connect the RJ45 cable to the RJ45 jack of the camera and attach the camera to the installation bracket (Figure 30).

Figure 30. Connect the camera

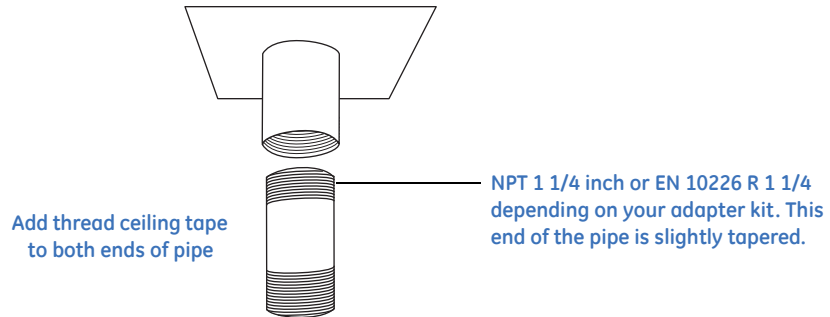


Note: When properly installed, the GE logo should face toward the area of interest. If it does not, readjust the lower camera installation bracket.

Pipe mount

GE Security offers two pipe-mount adapter kits designed for use with two different types of threaded pipe. The GEC-DV-PMA model is for 1-1/4 11.5 NPT threaded pipe, and the GEC-DV-BSP model is for 1-1/4 BSP threaded pipe. The pipe-mount adapter kits are for installation of a pendant/surface type camera.

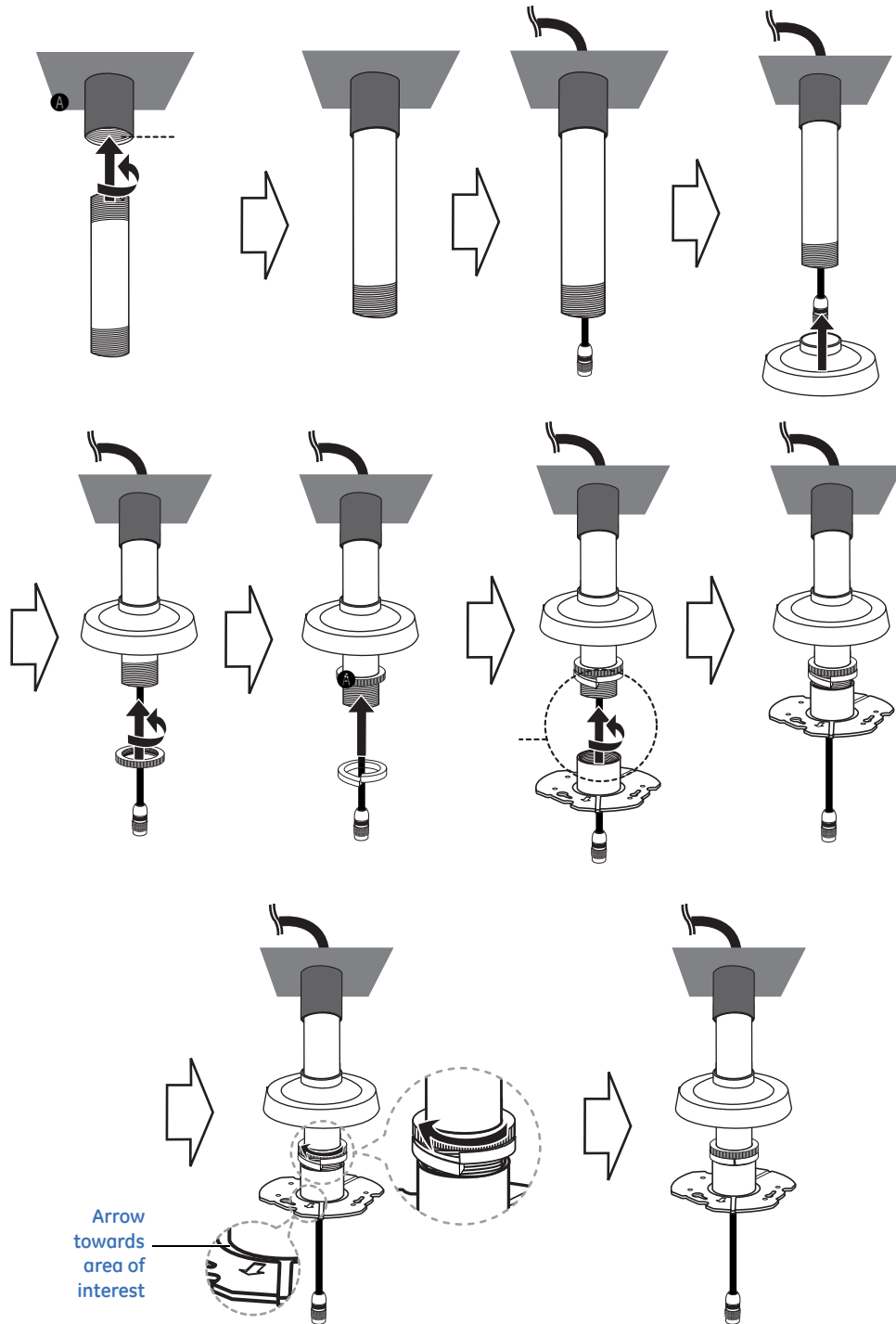
Figure 31. Pipe mount adapter



1. Add thread-sealing tape to both ends of your pipe. Pipe threads should be clean and rust free.

2. Install the NPT/BSP pipe and camera installation brackets (Figure 32).

Figure 32. NPT/BSP pipe installation

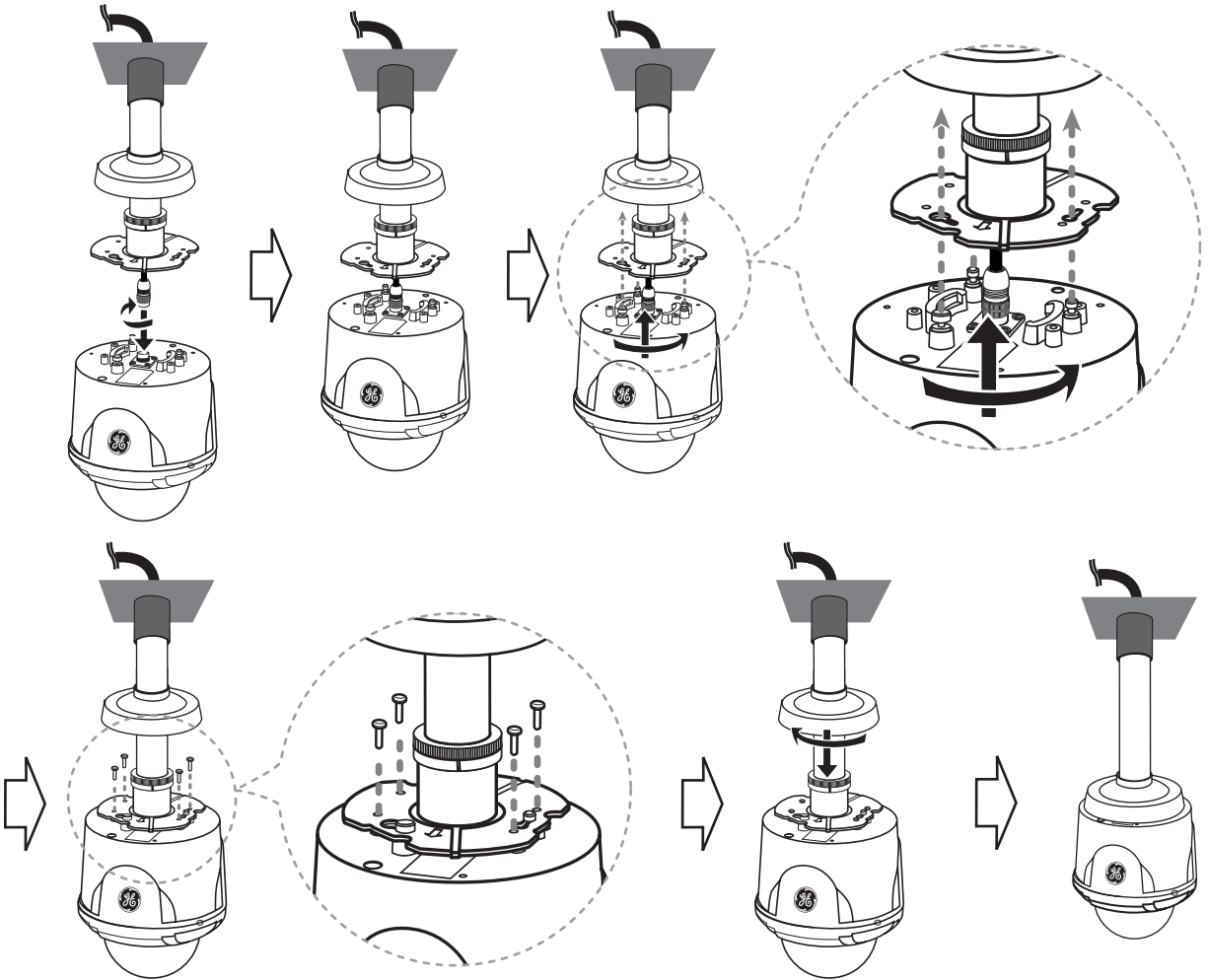


Pipe threads should be clean and rust free. Use a sealer such as PTFE tape or silicone sealer on the threads

A.

3. Connect the RJ45 cable to the RJ45 jack of the camera and install the camera to the installation bracket (Figure 33).

Figure 33. RJ45 cabling



Note: If properly installed, the GE logo should face area of interest. If it does not, readjust the lower camera installation bracket.

Surface-mount

Note: The camera is no longer IP66 rated after surface mounting the camera.

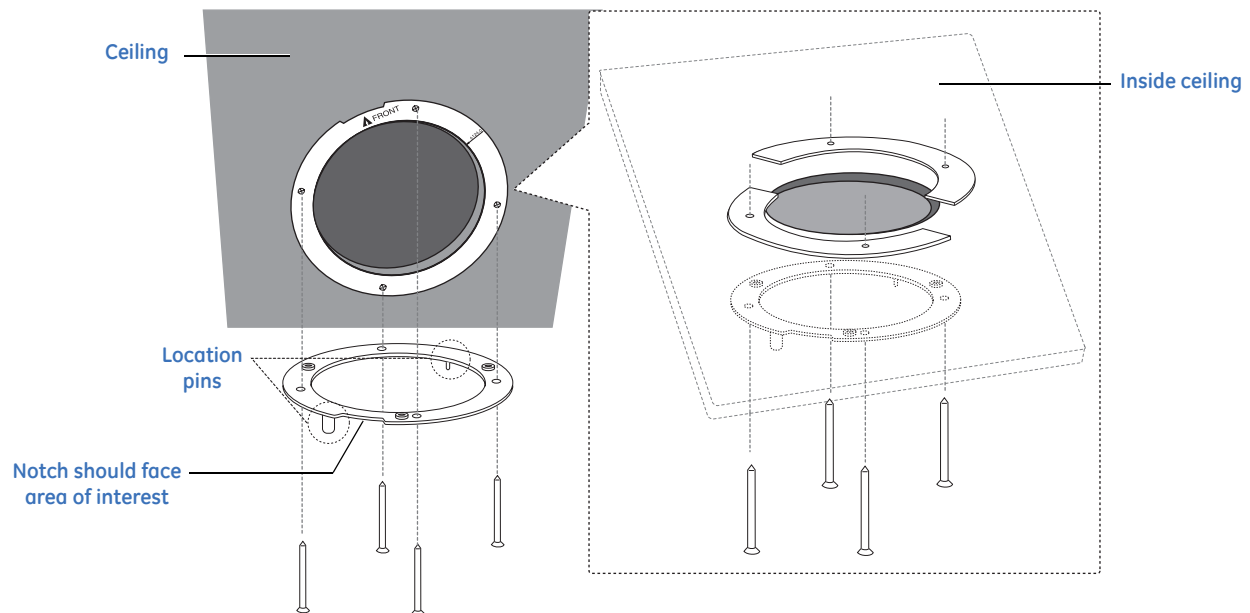
To surface-mount the camera, do the following:

1. Use the installation guide template to check the mounting location. Point the arrow on the label marked “Front” towards the area of interest. Using the template as a guide, make a hole through the ceiling (*Figure 17*).



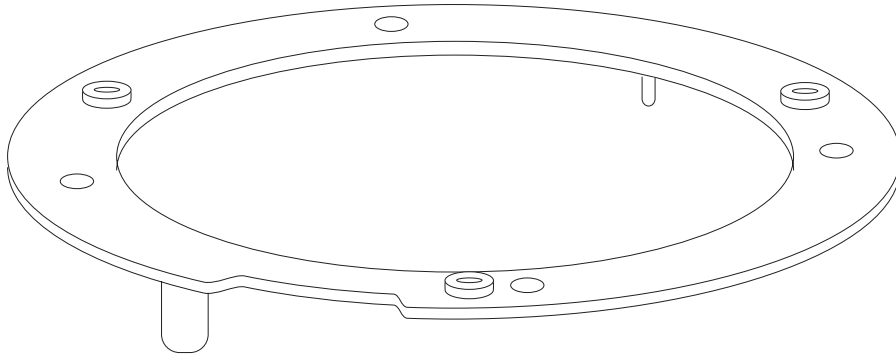
CAUTION: The building superstructure must be able to support 80 lb. (36 kg).

Figure 34. Camera assembly bracket



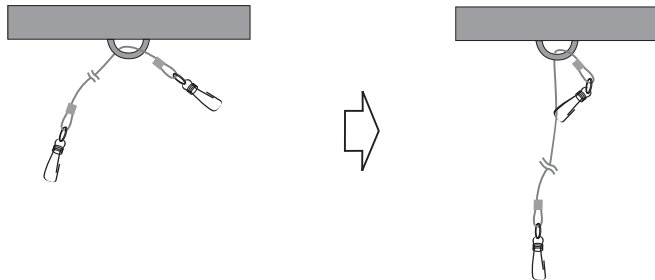
Note: For this installation, you must use the bracket depicted in *Figure 35* on page 30. The GE 16X PTZ camera models have different brackets that are designed to work with specific models.

Figure 35. Surface-mount bracket



2. Fasten the dome safety cable to the building superstructure (*Figure 20*). The building superstructure can vary depending on your installation environment.

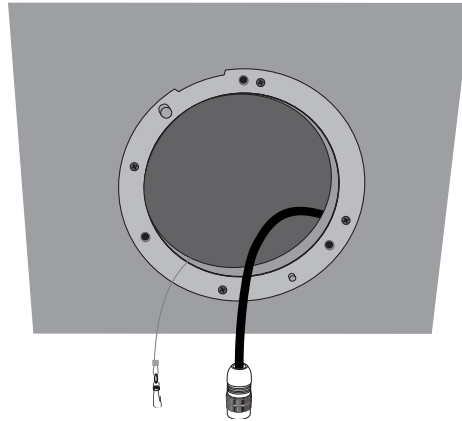
Figure 36. Dome safety cable



CAUTION: The building structure must be able to support 80 lb. (36 kg).

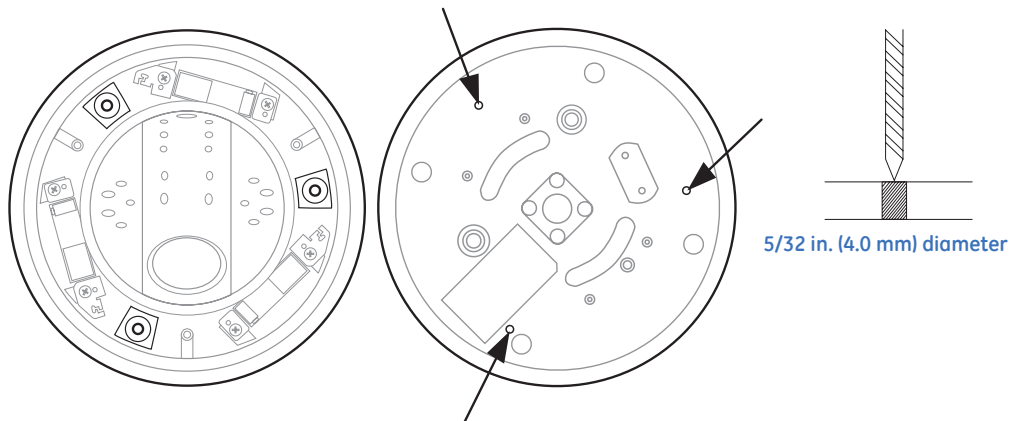
3. Pass the connection cable and the safety cable through the inner side of the ceiling (*Figure 21*).

Figure 37. Connection cable



4. Drill three holes in the camera housing as shown in *Figure 38*.

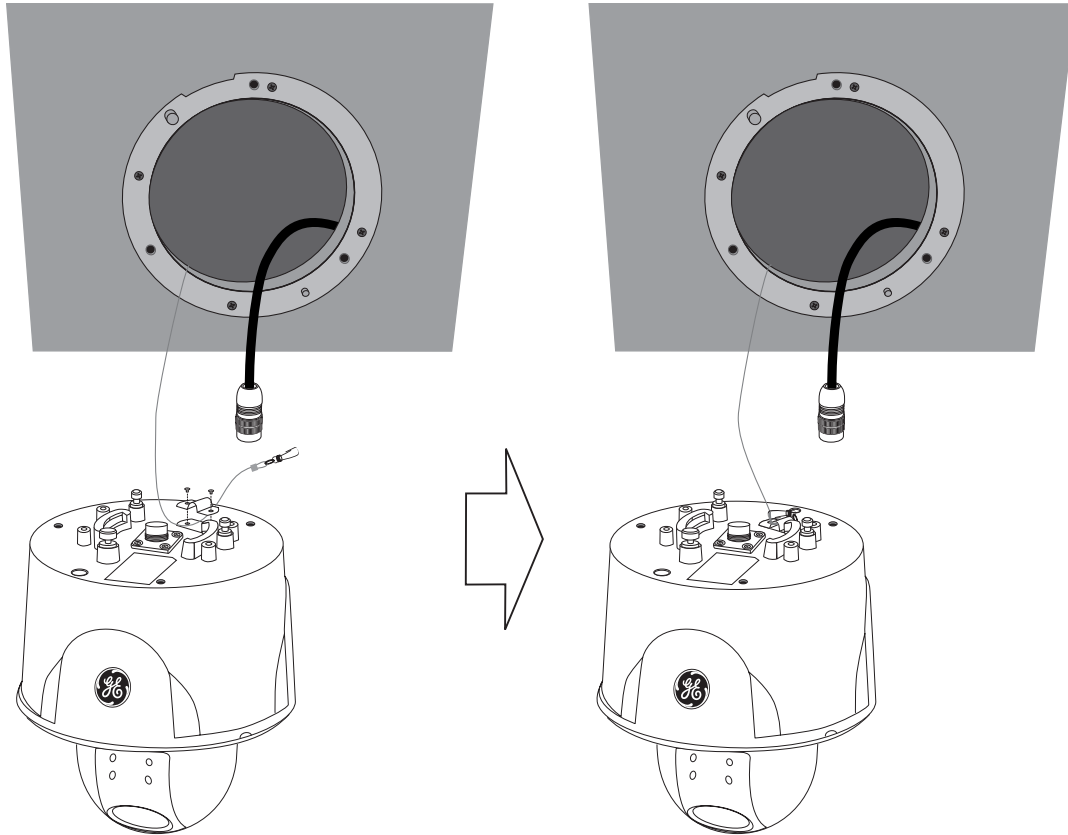
Figure 38. Drilling holes in the bottom of the camera housing



Note: The camera is no longer IP66 rated after drilling the holes.

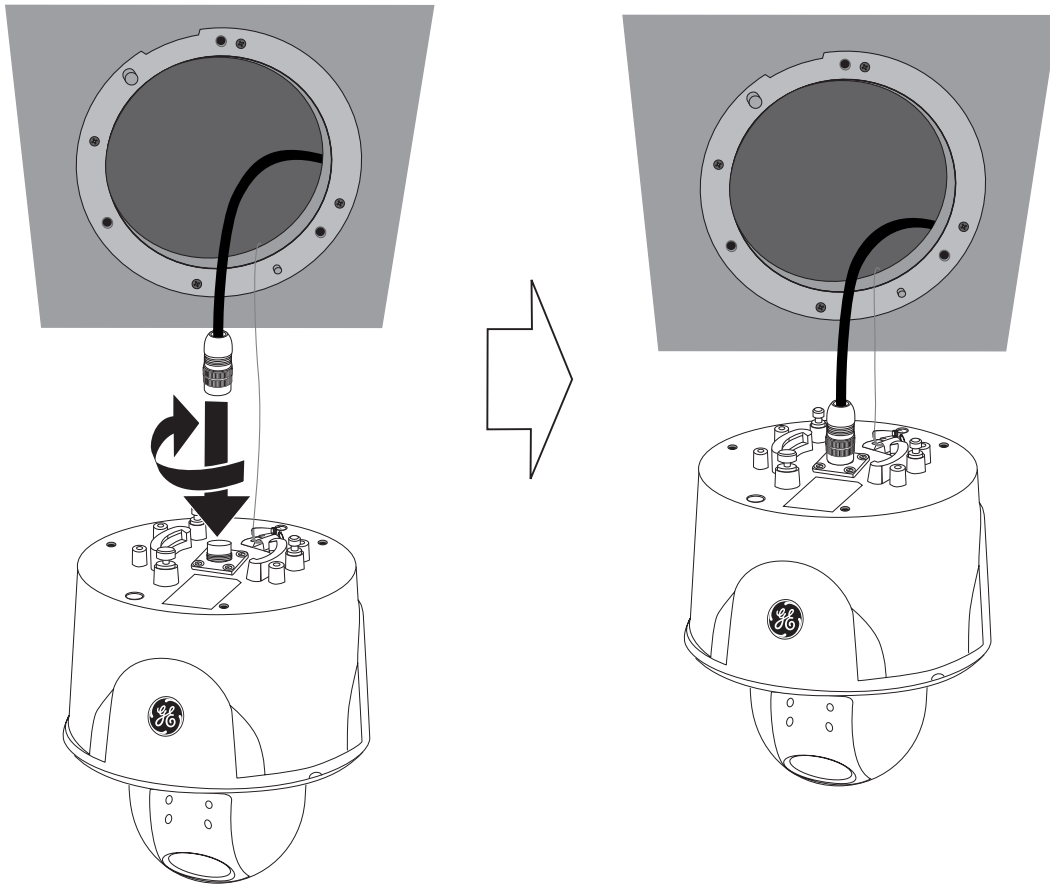
5. Using the two smallest screws in the mounting hardware kit, connect the safety cable to the camera body with the safety bracket (*Figure 22*).

Figure 39. Safety cable to camera



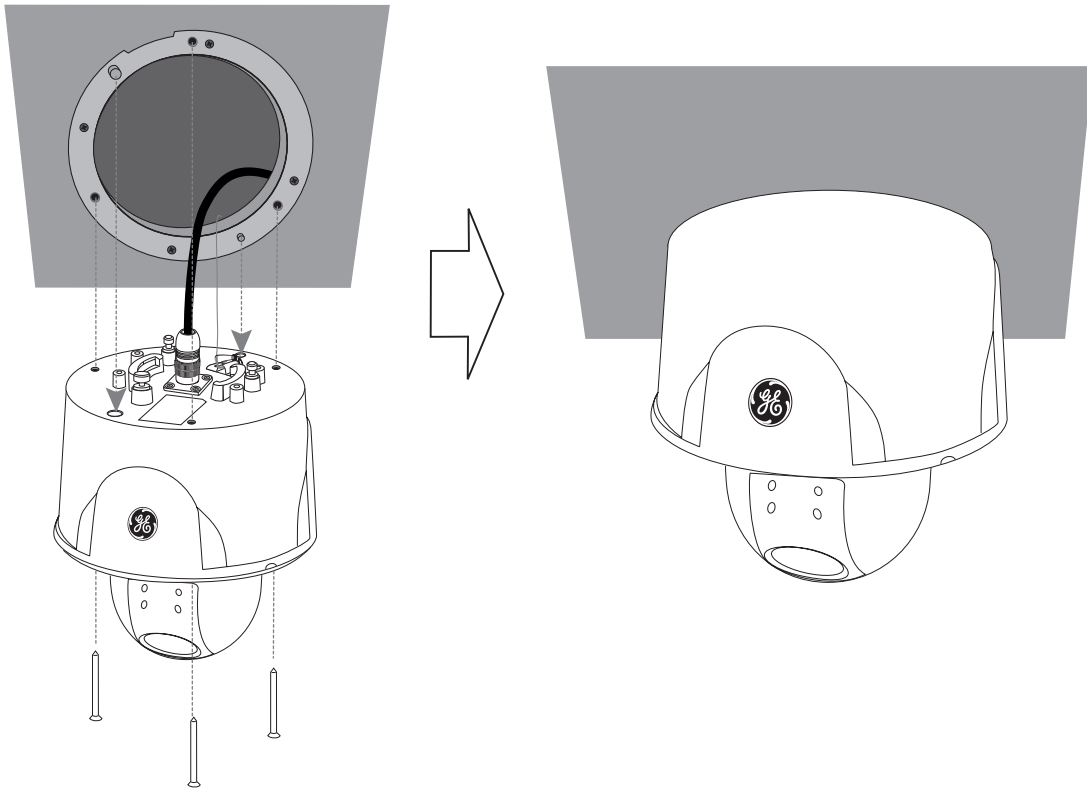
6. Connect the cable to the terminal on the camera body (*Figure 23*).

Figure 40. Cable connection



7. Fasten the camera body to the camera assembly bracket (*Figure 24*). For proper orientation, use the location pins to align the camera.

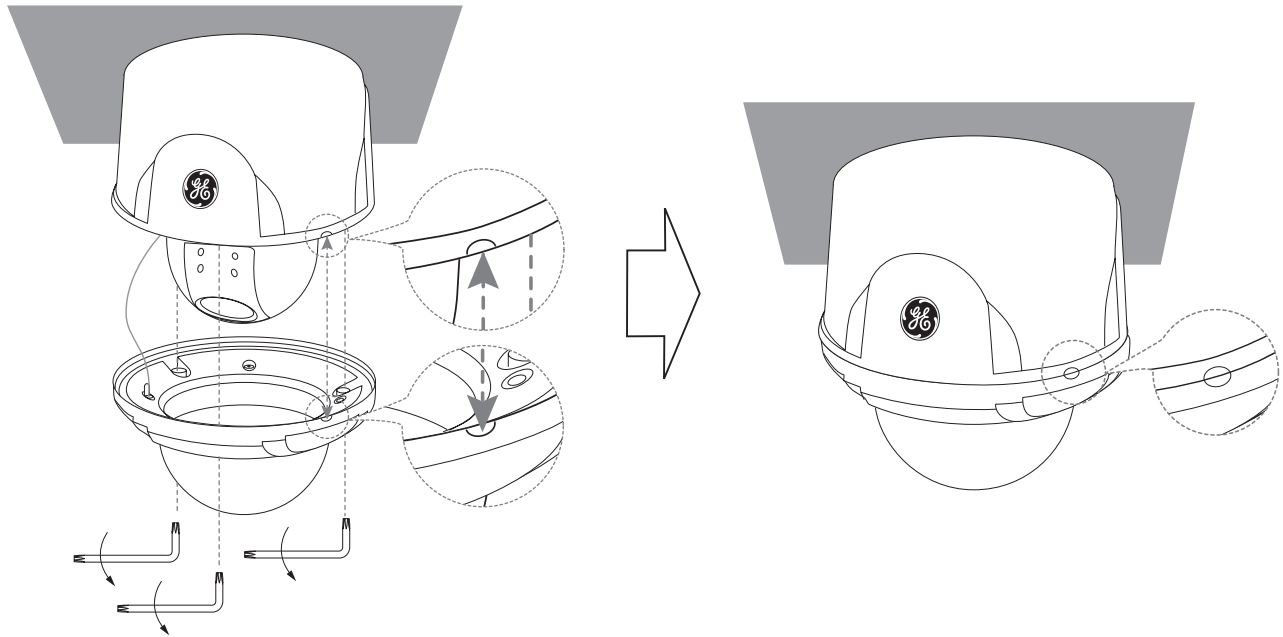
Figure 41. Camera body to bracket installation



8. Assemble the camera cover and camera body. Fasten the screws using the hexagonal wrench (Figure 25).

Note: The GE logo should face the area of interest. If it does not, go back to step 1 to reorient the assembly bracket.

Figure 42. Camera cover assembly



Contacting us

For help installing, operating, maintaining, and troubleshooting this product, refer to this document and any other documentation provided. If you still have questions, contact us during business hours (Monday through Friday, excluding holidays, between 5 a.m. and 5 p.m. Pacific Time).

Table 6. Technical support

North America	Latin America
T: 888 GE Security (888.437.3287) Toll-free in the US, Puerto Rico, and Canada. 503.885.5700 outside the toll-free area.	T: 305.593.4301
F: 888.329.0332 (Tualatin tech support) 561.998.6232 (Boca Raton tech support)	F: 305.593.4300
E: nstechsrv@ge.com gesecurity.customerservice@ge.com	E: InfraSec.TechnicalServicesLatinAmerica@ge.com InfraSecCustomerService.LatinAmerica@ge.com
Australia, New Zealand	Europe, Middle East, and Africa
E: techsupport@gesecurity.com.au	W: At www.gesecurity.eu , select <i>Customer Support</i> .
	China, India, Singapore, Taiwan, Southeast Asia
	E: ges.asiatechservice@ge.com

Note: Be ready at the equipment before calling.

Online resources

Here are some useful links on our website www.gesecurity.com:

Online library. From the *Customer Support* menu, select the [Resource Library](#) link. After you register and log on, you may search for the documentation you need.¹

Training. To view any available online training for GE Security products, select the [Training](#) link. (Online training is not available for all products.)

Warranty and terms information. From the *Customer Support* menu, select [Return and Warranty Policy Statement](#) or [Terms and Conditions Policy Statement](#).

Customer service and technical support. From the *Customer Support* menu, select [Customer Service](#) or [Technical & Application](#). Select the appropriate product category for the contact information or use the menu to select a location outside the US.

1. Many GE documents are provided in English only as PDFs. To read these documents, you will need Adobe Reader, which you can download free from Adobe's website at www.adobe.com.