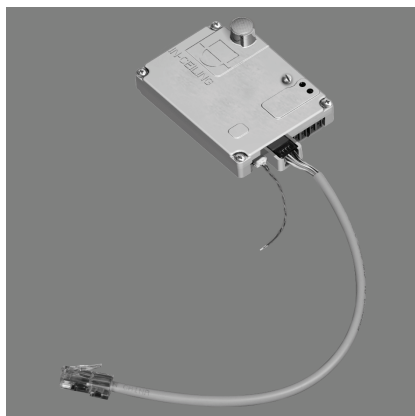




by **Schneider** Electric

INSTALLATION

TXB-IP Spectra® IV IP Communication Module



C3443M-B (7/09)

Regulatory Notices

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RADIO AND TELEVISION INTERFERENCE

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You may also find helpful the following booklet, prepared by the FCC: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402.

Changes and modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission's rules.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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This offer is valid for a period of three (3) years from the date of the distribution of this product by Pelco.

Description

The TXB-IP allows Spectra® IV and Spectra IV SE dome systems to transfer live video and data over an Internet protocol (IP) network. The IP module provides MJPEG and MPEG-4 compression for use with most standard Web browsers. Once installed, the Spectra IV dome system retains all of the standard Spectra features, while adding IP connectivity.

NOTE: The TXB-IP module is only compatible with Spectra IV dome systems that use version 1.07 or newer software. Dome systems with software older than version 1.07 do not have the capability to operate over an IP network.

MODELS

- TXB-IP-F Spectra IV IP communication module for in-ceiling back boxes
- TXB-IP-P Spectra IV IP communication module for pendant back boxes

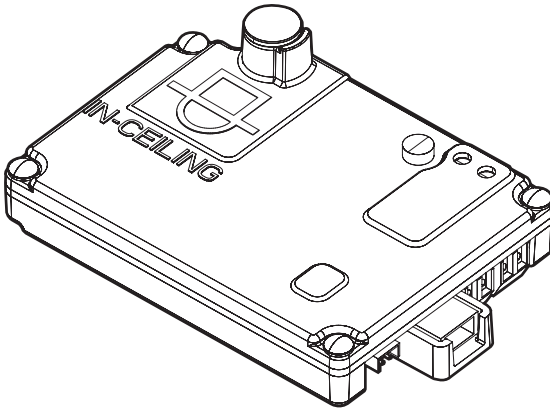


Figure 1. TXB-IP-F

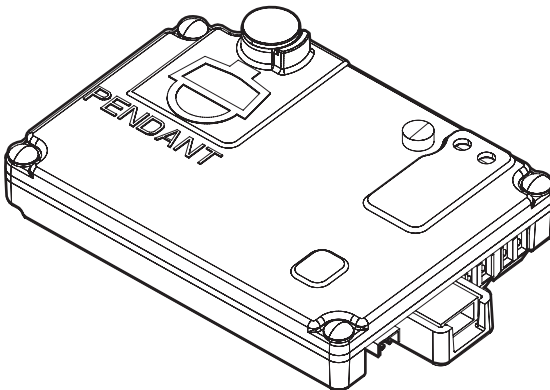


Figure 2. TXB-IP-P

Installation

PARTS LIST

Qty Description

- 1 TXB-IP module
- 2 MAC address label
- 1 Resource Disk
- 1 TXB-IP Installation manual
- 1 Spectra IV IP Operation/Configuration manual
- 1 Device Utility Operation/Configuration manual

To access the back box PCB, use the following steps:

1. Turn off power to the dome system.
2. Remove the lower dome.
3. Remove the dome drive by pressing in the blue and red tabs on the sides of the dome drive. Gently rock the dome drive to release the blue tab first, and then release the red tab.
4. Open the hinged door to the box. Push the tab lock towards the back box wall of the unit and open the door (refer to Figure 3).

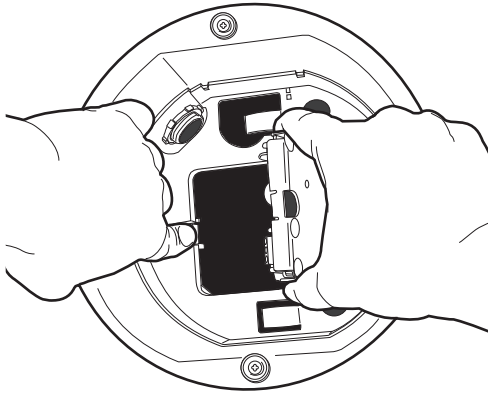


Figure 3. Spectra IV Back Box Interconnect Door

INSTALLING THE TXB-IP

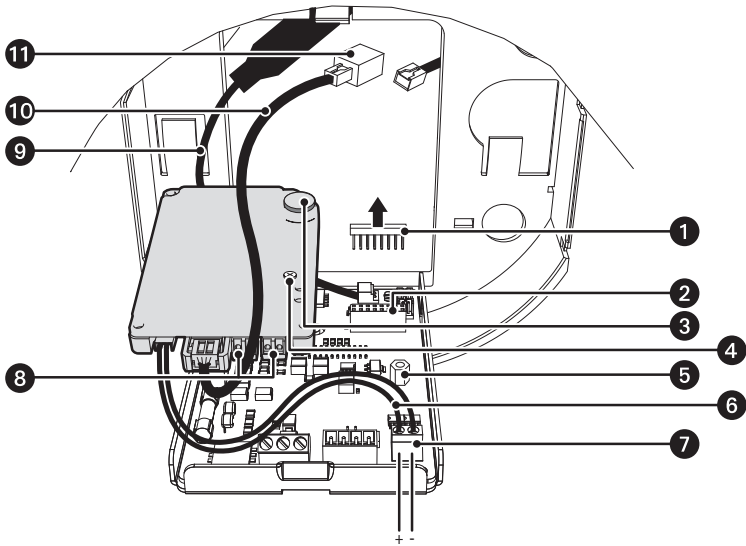


Figure 4. Installing the TXB-IP

- | | |
|----------------------|-----------------------|
| 1 Shorting Plug | 7 UTP Connector |
| 2 16-Pin Connector | 8 Audio Connectors |
| 3 Heat Sink Standoff | 9 Video Coaxial Cable |
| 4 Captive Screw | 10 Ethernet Cable |
| 5 Standoff | 11 RJ-45 Coupler |
| 6 Video UTP Cable | |

To install the TXB-IP into the back box, use the following steps (refer to Figure 4):

WARNING: The TXB-IP-F is intended for use only with in-ceiling back boxes. The TXB-IP-P is intended for use only with pendant back boxes. If a TXB-IP-F is installed in a pendant back box, the unit will overheat and you will void the warranty. If a TXB-IP-P is installed in an in-ceiling back box, the unit will be damaged and you will void the warranty. Refer to Figure 1 and Figure 2 on page 3.

1. Ensure that you are installing the correct model TXB-IP into the appropriate in-ceiling or pendant model back box.
2. If you plan to use the audio functions, install your audio UTP cables into the audio line-in and line-out connectors on the TXB-IP.

NOTES:

- To take full advantage of the UTP distance and noise immunity benefits, you must use a 600-ohm impedance matching transformer (refer to Figure 5 on page 7).
- A stable power supply is required for optimal audio performance.

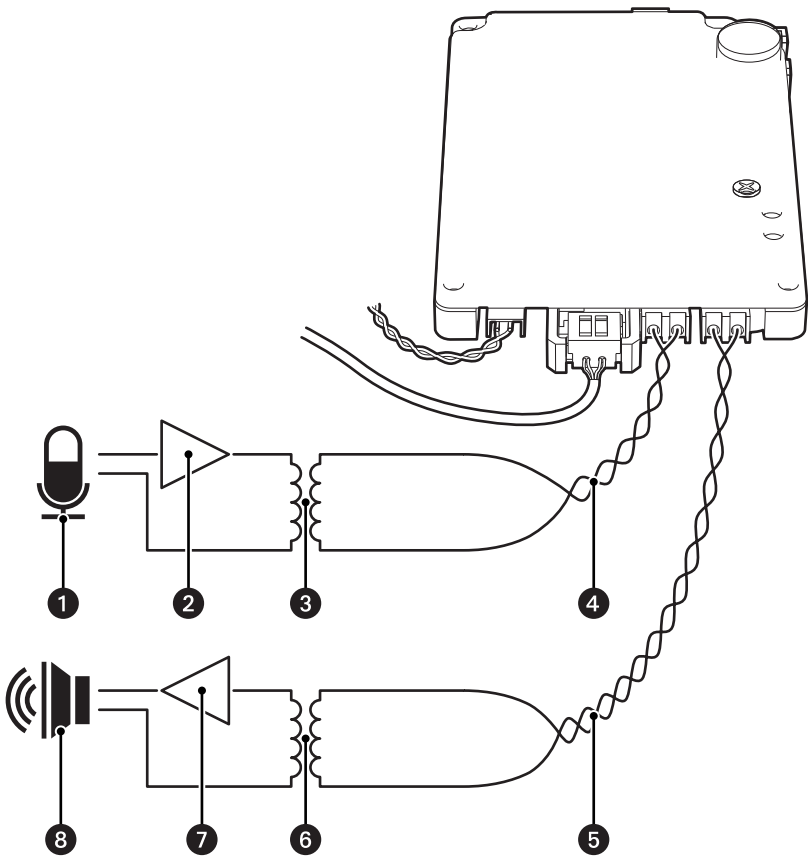


Figure 5. Audio Connections

- | | |
|--|--|
| 1 Microphone | 5 Line-Out Audio UTP Cable |
| 2 Amplifier | 6 600-Ohm Impedance Matching Transformer |
| 3 600-Ohm Impedance Matching Transformer | 7 Amplifier |
| 4 Line-In Audio UTP Cable | 8 Speaker |

3. Install the video unshielded twisted pair (UTP) cable into the UTP connector:
 - a. For ease of installation, remove the video UTP cable from the TXB-IP.
 - b. Plug the exposed wires of the video UTP cable into the UTP connector on the back box circuit board. Insert the blue wire into the positive terminal, and then insert the gray wire into the negative terminal.
 - c. Plug the video UTP cable back into the TXB-IP.
4. Remove the shorting plug from the 16-pin connector located on the back box circuit board.

5. Insert the TXB-IP module into the 16-pin connector located on the back box circuit board. Secure the module to the standoff on the circuit board using the captive screw on the TXB-IP module.
6. Plug your network Ethernet cable into the RJ-45 coupler to connect the Spectra IV dome system to your existing network.

⚠ WARNING: An electrical short in the back box may occur if the metal BNC connector on the video coaxial cable is not completely covered by the protective boot.

7. If you plan to view video using both analog and IP connections, connect the video coaxial cable from the back box circuit board to the coaxial cable coming in from the outside. Make sure that the BNC connector is completely covered by the protective boot.

If you plan to only view video using the IP connection, make sure that the BNC connector is completely covered by the protective boot and is out of the way of the back box door.

8. Before closing the interconnect door, ensure that no wires are between the top of the heat sink standoff and the back box. Both the video coaxial cable and the Ethernet cable need to be routed carefully to ensure clearance for the heat sink standoff. Refer to Figure 6.
9. Close the interconnect door. Snap the tab lock into place.

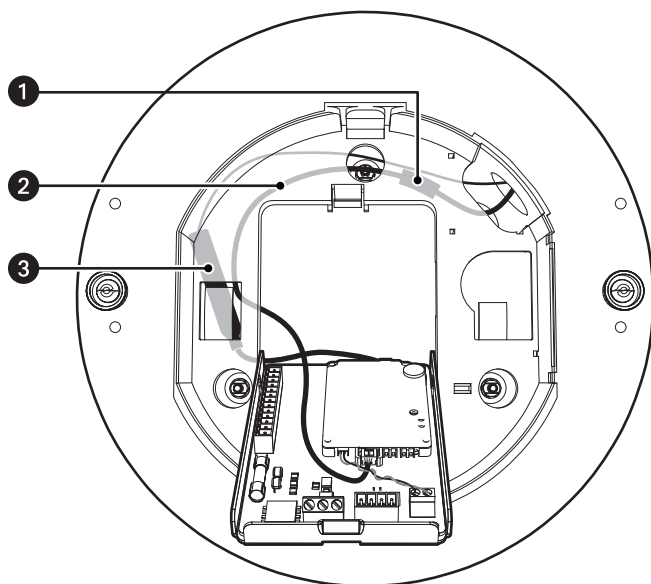


Figure 6. Routing the Cables

- 1 RJ-45 Coupler
- 2 Ethernet Cable
- 3 Video Coaxial Cable

INSTALLING THE DOME DRIVE

NOTE: For complete installation instructions, refer to the installation manual supplied with the Spectra IV back box.

1. If you plan to view video using both analog and IP connections, set the DIP switches on the top of the Spectra IV dome drive. For DIP switch settings, refer to the labels located on the top of the dome drive, or refer to *Switch Settings* in the Installation/Operation manual shipped with the dome drive. If you plan to only view video using the IP connection, you do not need to set the DIP switches.
2. Install the dome drive (refer to Figure 7). Line up the blue and red tabs with the blue and red labels. When pushing the tabs in, insert the red tab first, and then the blue tab. Continue pushing on the ends of the tabs until both tabs click into place.

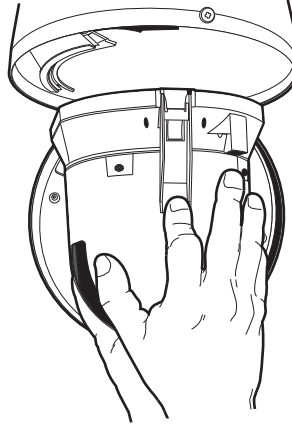


Figure 7. Spectra IV Dome Drive Installation

3. Install the lower dome.
4. Apply power to the system.

Troubleshooting

If the following instructions fail to solve your problem, contact Pelco Product Support at 1-800-289-9100 (USA and Canada) or +1-559-292-1981 (international) for assistance. Be sure to have the serial number available when calling.

Do not try to repair the unit yourself. Leave maintenance and repairs to qualified technical personnel.

Symptom	Possible Cause	Suggested Solution
No video is displayed.	Power is not connected.	Check the power connector.
	Video cable is not connected.	Check the video connector.
	Video UTP cable is not connected.	Check the UTP connector.
	TXB-IP module is not inserted properly.	Reinstall the TXB-IP module. Make sure the pins on the module are inserted correctly.
Spectra IV information (model, firmware, Pelco P and D protocol addresses, and communication settings) does not appear after the configuration cycle.	The unit cannot complete its configuration cycle.	Refer to <i>Troubleshooting</i> in the Installation/Operation manual shipped with the Spectra IV dome drive.
The unit does not respond to commands.	Make sure your switches are set to the proper settings.	Check all DIP switch settings on the dome drive.
The displayed video is scrambled.	Video UTP wires are incorrectly installed.	Verify that the video UTP cable is wired correctly to the UTP connector on the back box circuit board. The blue wire should be connected to the positive terminal, and the gray wire should be connected to the negative terminal. Refer to Figure 4 on page 5.
The audio signal is weak.	You are not using the correct type of transformer.	Be sure you are using a 600-ohm impedance matching transformer
	The wiring distance connecting the audio equipment may be too long.	Test the equipment using a shorter wiring distance.
	The gain is not properly adjusted.	If you are using an external amplifier and it has an adjustable gain, increase the gain until the signal is acceptable.
There is an echo when audio is received.	The speaker volume is too high.	Lower the speaker volume.
	The microphone and the speaker are too close together.	If your call station does not have built-in echo cancellation, move the microphone and speaker farther apart.
	Your call station does not have built-in echo cancellation.	Use a call station with built-in echo cancellation.

REVISION HISTORY

Manual #	Date	Comments
C3443M	5/08	Original version.
C3443M-A	10/08	Added audio line-in information per CN21948.
C3443M-B	7/09	Added full-duplex audio information.

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PRODUCT WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship **for a period of one year** after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years:
 - Fiber optic products
 - TW3000 Series unshielded twisted pair (UTP) transmission products
 - CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models
- Three years:
 - Pelco-branded fixed camera models (CCC1390H Series, C10DN Series, C10CH Series, IP3701H Series, and IX Series)
 - EH1500 Series enclosures
 - Spectra[®] IV products (including Spectra IV IP)
 - Camclosure[®] Series (IS, ICS, IP) integrated camera systems
 - DX Series digital video recorders, DVR5100 Series digital video recorders, Digital Sentry[®] Series hardware products, DVX Series digital video recorders, and NVR300 Series network video recorders
 - Endura[®] Series distributed network-based video products
 - Genex[®] Series products (multiplexers, server, and keyboard)
 - PMCL200/300/400 Series LCD monitors
- Two years:
 - Standard varifocal, fixed focal, and motorized zoom lenses.
 - DF5/DF8 Series fixed dome products
 - Legacy[®] Series integrated positioning systems
 - Spectra III[™], Spectra Mini, Spectra Mini IP, Esprit[®], ExSite[®], and PS20 scanners, including when used in continuous motion applications.
 - Esprit Ti and TI2500 Series thermal imaging products
 - Esprit and VVV5700 Series window wiper (excluding wiper blades).
 - CM6700/CM6800/CM9700 Series matrix
 - Digital Light Processing (DLP[®]) displays (except lamp and color wheel). The lamp and color wheel will be covered for a period of 90 days. The air filter is not covered under warranty.
 - Intelli-M[®] eIDC controllers
- One year:
 - Video cassette recorders (VCRs), except video heads. Video heads will be covered for a period of six months.
- Six months:
 - All pan and tilts, scanners, or preset lenses used in continuous motion applications (preset scan, tour, and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to a Pelco designated location. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental, or consequential damages (including loss of use, loss of profit, and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, sales order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product that does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

To expedite parts returned for repair or credit, please call Pelco at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair) and designated return location.

All merchandise returned for credit may be subject to a 20 percent restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid

12-23-08

PELCO

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