



# ExSite<sup>™</sup> Series Explosionproof Power Module



**IPSXM-2 and IPSXM-7** 

C313M-D (8/05)

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## **Important Safety Instructions**

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- To reduce the risk of ignition of hazardous atmospheres, disconnect the equipment from the supply circuit before opening. Keep assembly tightly closed when in operation.
- 7. The maximum ambient temperature range is -76°F to 140°F (-60°C to 60°C).
- 8. Only use attachments/accessories specified by the manufacturer.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as powersupply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 10. Installation should be done only by qualified personnel and conform to all local codes.
- 11. Unless the unit is specifically marked as a NEMA Type 3, 3R, 3S, 4, 4X, 6, or 6P enclosure, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.
- 12. Use only installation methods and materials capable of supporting four times the maximum specified load.
- 13. Use stainless steel hardware to fasten the mount to outdoor surfaces.
- 14. AN ALL-POLE MAINS SWITCH with a contact separation of at least 3 mm in each pole shall be incorporated in the electrical installation of the building.
- 15. A readily accessible disconnect device shall be incorporated in the building installation wiring.
- 16. CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other that contained in the operating instructions unless you are qualified to do so.
- 17. Only use replacement parts recommended by Pelco.

The product and/or manual may bear the following marks:

**WARNING:** This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

WARNING: HAZARDOUS MOVING PARTS. KEEP FINGERS AND OTHER BODY PARTS AWAY.

**WARNING:** To reduce the risk of ignition of hazardous atmospheres, disconnect the equipment from the supply circuit before opening. Keep assembly tightly closed when operating.

**WARNING:** To reduce the risk of ignition of hazardous atmospheres, conduit runs must have a sealing fitting connected within 2 inches of the enclosure.

TO REDUCE THE RISK OF IGNITION DO NOT OPEN WHEN AN EXPLOSIVE GAS ATMOSPHERE MAY BE PRESENT.

CAUTION: RISK OF ELECTRIC SHOCK. DO NOT OPEN.

## **Getting Started**

Thank you for purchasing Pelco's ExSite<sup>™</sup> Series explosionproof integrated positioning system. This manual includes instructions for installing the power module for the ExSite Series system. For complete system installation instructions refer to the installation manual placed in the pan and tilt box.

**DANGER:** Do not connect the power module to a supply circuit unless all ExSite system components (pan and tilt, camera module and power module) are installed.

Once the complete system is installed refer to the operation/programming manual shipped with the camera module for instructions on how to operate and program your system.

### **Install the Power Module**

Attach the power module to the mounting surface. Use only installation methods and materials capable of supporting four times the maximum specified load of the system (220 lb/100 kg).

**NOTE:** If required, install the optional TXB translator, fiber module, or UTP board before installing the power module. Refer to the installation instructions supplied with the TXB translator, fiber module, or UTP board for installation instructions.

To install the power module, refer to Figure 1 and do the following:

- 1. Make sure the threads of the power module and the threads of the supplied M10 x 16 mm stainless steel bolts are free of dirt and debris.
- 2. Apply a generous amount of thread locking compound (supplied) to the threads of the power module and the threads of the stainless steel bolts.
- 3. Face the conduit fitting of the power module towards the mating conduit fitting of the installation.
- 4. Secure the power module to the mounting surface with the supplied 8 mm Allen wrench and four M10 x 16 mm stainless steel bolts. Tighten the bolts to 25 to 27 ft-lb (34 to 37 Nm). The thread compound supplied must cure for one hour. Allow for this cure period prior to completing the installation.



Figure 1. Attach Power Module to Mounting Surface

5. Lightly apply O-ring lubricant (supplied) to the O-ring, and then install the O-ring on the rim of the power module (refer to Figure 2).



Figure 2. Lightly Lubricate and Install O-Ring

Refer to the following information to connect the wires and cables as required.

WARNING: When installing this unit, provide access to the communication wires (TX- and TX+) to allow connection to the system for future software upgrades. Connectors must be installed so that the integrity of the hazardous location is maintained. These communication wires are required even if the system uses Coaxitron<sup>®</sup> control. Maximum wire distance for RS-422 data wires is 4,000 ft (1,219 m).

#### NOTES:

- Relay 3 is allocated specifically for an external washer (not supplied by Pelco).
- All relays are specified for 32 VDC, 0.5 A.
- Wiring/cable for UTP and fiber optic are not provided on the wire harness. The installer must provide UTP and fiber optic connections.

#### **Configuration of Wire Harness**

| Wire Color         | Function                  |  |  |  |
|--------------------|---------------------------|--|--|--|
| White/Orange       | TX+                       |  |  |  |
| White/Blue         | TX-                       |  |  |  |
| Red                | RX+                       |  |  |  |
| Green              | RX-                       |  |  |  |
| Violet/White       | Relay 3 NC (washer only)  |  |  |  |
| White/Red          | Relay 3 COM (washer only) |  |  |  |
| Green/Black        | Relay 3 NO (washer only)  |  |  |  |
| Gray/White         | Relay 2 NC                |  |  |  |
| Yellow             | Relay 2 COM               |  |  |  |
| Violet             | Relay 2 NO                |  |  |  |
| Brown              | Relay 1 NC                |  |  |  |
| Gray               | Relay 1 COM               |  |  |  |
| White/Yellow/Black | Relay 1 NO                |  |  |  |
| White/Black/Green  | Alarm COM                 |  |  |  |
| White/Red/Black    | Alarm 7                   |  |  |  |
| White/Brown/Black  | Alarm 6                   |  |  |  |
| Orange             | Alarm 5                   |  |  |  |
| White/Orange/Black | Alarm 4                   |  |  |  |
| White/Blue/Black   | Alarm 3                   |  |  |  |
| White/Brown        | Alarm 2                   |  |  |  |
| White/Black        | Alarm 1                   |  |  |  |

#### **Power Connections 24 VAC**

| Wire Color | Function |
|------------|----------|
| Red        | AC Hi    |
| Black      | AC Low   |

#### Power Connections 100-240 VAC

| Wire Color   | Function     |
|--------------|--------------|
| Black        | AC Hi        |
| White        | AC Low       |
| Green/Yellow | Earth Ground |

#### **Video Coaxial Cable Requirements**

| Cable Type* | Maximum Distance |
|-------------|------------------|
| RG59/U      | 750 ft (229 m)   |
| RG6/U       | 1,000 ft (305 m) |
| RG11/U      | 1,500 ft (457 m) |

\*Cable requirements:

75-ohm impedance

All-copper center conductor

All-copper braided shield with 95% braid coverage

#### **Wiring Distances**

The following are the recommended maximum distances for 24 VAC and 100-240 VAC applications and are calculated with a 10 percent voltage drop. (Ten percent is generally the maximum allowable voltage drop for AC-powered devices.)

|         |           | Wire      | Gauge                  |           |  |
|---------|-----------|-----------|------------------------|-----------|--|
| Power   | 18        | 16        | 14                     | 12        |  |
|         | (1.0 mm²) | (1.5 mm²) | (2.5 mm <sup>2</sup> ) | (3.5 mm²) |  |
| 24 VAC  | 27 ft     | 43 ft     | 69 ft                  | 110 ft    |  |
|         | (8 m)     | (13 m)    | (21 m)                 | (33 m)    |  |
| 100-240 | 75 ft     | 120 ft    | 190 ft                 | 310 ft    |  |
| VAC     | (23 m)    | (36 m)    | (58 m)                 | (94 m)    |  |

 ${\rm NOTE:}\,$  Power consumption is 120 VA per unit. Use a powersource with a minimum of 150 VA.

## **DIP Switch Settings**

Configure the receiver address, termination, and baud setting for the system. The DIP switches to configure these settings are located on the top of the power module.

**NOTE:** No DIP switch settings are required for Coaxitron<sup>®</sup> control.

Figure 3 shows the default settings for the DIP switches. Refer to the following to configure the ExSite system settings.



Figure 3. Default DIP Switch Settings

### **Protocol Settings**

The ExSite system automatically detects the type of protocol. No switch settings are required to set Coaxitron or RS-422 P and D protocols.

### **Receiver Address Settings (SW1)**

The default address is 2 for P protocol. Refer to Table A for address settings that use P protocol. Maximum number of receivers is 32.

The default address is 1 for D protocol. Refer to Table B for address settings that use D protocol. Maximum number of receivers is 254.

### **Termination Setting (SW2)**

When connecting more than one ExSite system to a single controller, terminate the unit farthest from the controller. Termination is required only for the last unit in the series. The unit is shipped from the factory in the unterminated (OFF) position. To terminate the unit, set the SW2 switch to the ON position.

### **Baud Settings (SW3)**

Pelco's D-type controllers are set for 2400 baud. The default setting for the unit is 2400 baud. If you are using a Pelco D-type controller, do not reset the SW3 switches.

P-type controllers can operate at 2400, 4800, and 9600 baud. Set the SW3 switches (6, 7, and 8), located on the top of the power module, to the same baud as the P-type controller.

#### **Switch Settings for SW3**

| Switch Number | Number SW3-6 |     | SW3-8 |  |
|---------------|--------------|-----|-------|--|
| 2400 Baud     | Off          | Off | Off   |  |
| 4800 Baud     | On           | Off | Off   |  |
| 9600 Baud     | Off          | On  | Off   |  |

## **Tables**

|         |       |       |       | SWITCH | SETTING |       |       |       |
|---------|-------|-------|-------|--------|---------|-------|-------|-------|
| ADDRESS | SW1-1 | SW1-2 | SW1-3 | SW1-4  | SW1-5   | SW1-6 | SW1-7 | SW1-8 |
| 1       | OFF   | OFF   | OFF   | OFF    | OFF     | OFF   | OFF   | OFF   |
| 2       | ON    | OFF   | OFF   | OFF    | OFF     | OFF   | OFF   | OFF   |
| 3       | OFF   | ON    | OFF   | OFF    | OFF     | OFF   | OFF   | OFF   |
| 4       | ON    | ON    | OFF   | OFF    | OFF     | OFF   | OFF   | OFF   |
| 5       | OFF   | OFF   | ON    | OFF    | OFF     | OFF   | OFF   | OFF   |
| 6       | ON    | OFF   | ON    | OFF    | OFF     | OFF   | OFF   | OFF   |
| 7       | OFF   | ON    | ON    | OFF    | OFF     | OFF   | OFF   | OFF   |
| 8       | ON    | ON    | ON    | OFF    | OFF     | OFF   | OFF   | OFF   |
| 9       | OFF   | OFF   | OFF   | ON     | OFF     | OFF   | OFF   | OFF   |
| 10      | ON    | OFF   | OFF   | ON     | OFF     | OFF   | OFF   | OFF   |
| 11      | OFF   | ON    | OFF   | ON     | OFF     | OFF   | OFF   | OFF   |
| 12      | ON    | ON    | OFF   | ON     | OFF     | OFF   | OFF   | OFF   |
| 13      | OFF   | OFF   | ON    | ON     | OFF     | OFF   | OFF   | OFF   |
| 14      | ON    | OFF   | ON    | ON     | OFF     | OFF   | OFF   | OFF   |
| 15      | OFF   | ON    | ON    | ON     | OFF     | OFF   | OFF   | OFF   |
| 16      | ON    | ON    | ON    | ON     | OFF     | OFF   | OFF   | OFF   |

|         |       |       |       | SWITCH | SETTING |       |       |       |
|---------|-------|-------|-------|--------|---------|-------|-------|-------|
| ADDRESS | SW1-1 | SW1-2 | SW1-3 | SW1-4  | SW1-5   | SW1-6 | SW1-7 | SW1-8 |
| 17      | OFF   | OFF   | OFF   | OFF    | ON      | OFF   | OFF   | OFF   |
| 18      | ON    | OFF   | OFF   | OFF    | ON      | OFF   | OFF   | OFF   |
| 19      | OFF   | ON    | OFF   | OFF    | ON      | OFF   | OFF   | OFF   |
| 20      | ON    | ON    | OFF   | OFF    | ON      | OFF   | OFF   | OFF   |
| 21      | OFF   | OFF   | ON    | OFF    | ON      | OFF   | OFF   | OFF   |
| 22      | ON    | OFF   | ON    | OFF    | ON      | OFF   | OFF   | OFF   |
| 23      | OFF   | ON    | ON    | OFF    | ON      | OFF   | OFF   | OFF   |
| 24      | ON    | ON    | ON    | OFF    | ON      | OFF   | OFF   | OFF   |
| 25      | OFF   | OFF   | OFF   | ON     | ON      | OFF   | OFF   | OFF   |
| 26      | ON    | OFF   | OFF   | ON     | ON      | OFF   | OFF   | OFF   |
| 27      | OFF   | ON    | OFF   | ON     | ON      | OFF   | OFF   | OFF   |
| 28      | ON    | ON    | OFF   | ON     | ON      | OFF   | OFF   | OFF   |
| 29      | OFF   | OFF   | ON    | ON     | ON      | OFF   | OFF   | OFF   |
| 30      | ON    | OFF   | ON    | ON     | ON      | OFF   | OFF   | OFF   |
| 31      | OFF   | ON    | ON    | ON     | ON      | OFF   | OFF   | OFF   |
| 32      | ON    | ON    | ON    | ON     | ON      | OFF   | OFF   | OFF   |

Table B. D Protocol Receiver Address

|         |       |       |       | SWITCH | SETTING |       |       |       |         |       |       |       | SWITCH | SETTING |       |       |       |
|---------|-------|-------|-------|--------|---------|-------|-------|-------|---------|-------|-------|-------|--------|---------|-------|-------|-------|
| ADDRESS | SW1-1 | SW1-2 | SW1-3 | SW1-4  | SW1-5   | SW1-6 | SW1-7 | SW1-8 | ADDRESS | SW1-1 | SW1-2 | SW1-3 | SW1-4  | SW1-5   | SW1-6 | SW1-7 | SW1-8 |
| 1       | ON    | OFF   | OFF   | OFF    | OFF     | OFF   | OFF   | OFF   | 25      | ON    | OFF   | OFF   | ON     | ON      | OFF   | OFF   | OFF   |
| 2       | OFF   | ON    | OFF   | OFF    | OFF     | OFF   | OFF   | OFF   | 26      | OFF   | ON    | OFF   | ON     | ON      | OFF   | OFF   | OFF   |
| 3       | ON    | ON    | OFF   | OFF    | OFF     | OFF   | OFF   | OFF   | 27      | ON    | ON    | OFF   | ON     | ON      | OFF   | OFF   | OFF   |
| 4       | OFF   | OFF   | ON    | OFF    | OFF     | OFF   | OFF   | OFF   | 28      | OFF   | OFF   | ON    | ON     | ON      | OFF   | OFF   | OFF   |
| 5       | ON    | OFF   | ON    | OFF    | OFF     | OFF   | OFF   | OFF   | 29      | ON    | OFF   | ON    | ON     | ON      | OFF   | OFF   | OFF   |
| 6       | OFF   | ON    | ON    | OFF    | OFF     | OFF   | OFF   | OFF   | 30      | OFF   | ON    | ON    | ON     | ON      | OFF   | OFF   | OFF   |
| 7       | ON    | ON    | ON    | OFF    | OFF     | OFF   | OFF   | OFF   | 31      | ON    | ON    | ON    | ON     | ON      | OFF   | OFF   | OFF   |
| 8       | OFF   | OFF   | OFF   | ON     | OFF     | OFF   | OFF   | OFF   | 32      | OFF   | OFF   | OFF   | OFF    | OFF     | ON    | OFF   | OFF   |
| 9       | ON    | OFF   | OFF   | ON     | OFF     | OFF   | OFF   | OFF   | 33      | ON    | OFF   | OFF   | OFF    | OFF     | ON    | OFF   | OFF   |
| 10      | OFF   | ON    | OFF   | ON     | OFF     | OFF   | OFF   | OFF   | 34      | OFF   | ON    | OFF   | OFF    | OFF     | ON    | OFF   | OFF   |
| 11      | ON    | ON    | OFF   | ON     | OFF     | OFF   | OFF   | OFF   | 35      | ON    | ON    | OFF   | OFF    | OFF     | ON    | OFF   | OFF   |
| 12      | OFF   | OFF   | ON    | ON     | OFF     | OFF   | OFF   | OFF   | 36      | OFF   | OFF   | ON    | OFF    | OFF     | ON    | OFF   | OFF   |
| 13      | ON    | OFF   | ON    | ON     | OFF     | OFF   | OFF   | OFF   | 37      | ON    | OFF   | ON    | OFF    | OFF     | ON    | OFF   | OFF   |
| 14      | OFF   | ON    | ON    | ON     | OFF     | OFF   | OFF   | OFF   | 38      | OFF   | ON    | ON    | OFF    | OFF     | ON    | OFF   | OFF   |
| 15      | ON    | ON    | ON    | ON     | OFF     | OFF   | OFF   | OFF   | 39      | ON    | ON    | ON    | OFF    | OFF     | ON    | OFF   | OFF   |
| 16      | OFF   | OFF   | OFF   | OFF    | ON      | OFF   | OFF   | OFF   | 40      | OFF   | OFF   | OFF   | ON     | OFF     | ON    | OFF   | OFF   |
| 17      | ON    | OFF   | OFF   | OFF    | ON      | OFF   | OFF   | OFF   | 41      | ON    | OFF   | OFF   | ON     | OFF     | ON    | OFF   | OFF   |
| 18      | OFF   | ON    | OFF   | OFF    | ON      | OFF   | OFF   | OFF   | 42      | OFF   | ON    | OFF   | ON     | OFF     | ON    | OFF   | OFF   |
| 19      | ON    | ON    | OFF   | OFF    | ON      | OFF   | OFF   | OFF   | 43      | ON    | ON    | OFF   | ON     | OFF     | ON    | OFF   | OFF   |
| 20      | OFF   | OFF   | ON    | OFF    | ON      | OFF   | OFF   | OFF   | 44      | OFF   | OFF   | ON    | ON     | OFF     | ON    | OFF   | OFF   |
| 21      | ON    | OFF   | ON    | OFF    | ON      | OFF   | OFF   | OFF   | 45      | ON    | OFF   | ON    | ON     | OFF     | ON    | OFF   | OFF   |
| 22      | OFF   | ON    | ON    | OFF    | ON      | OFF   | OFF   | OFF   | 46      | OFF   | ON    | ON    | ON     | OFF     | ON    | OFF   | OFF   |
| 23      | ON    | ON    | ON    | OFF    | ON      | OFF   | OFF   | OFF   | 47      | ON    | ON    | ON    | ON     | OFF     | ON    | OFF   | OFF   |
| 24      | OFF   | OFF   | OFF   | ON     | ON      | OFF   | OFF   | OFF   | 48      | OFF   | OFF   | OFF   | OFF    | ON      | ON    | OFF   | OFF   |

(Continued on next page)

| Table B. | D Protocol | Receiver Addres | s (Continued) |
|----------|------------|-----------------|---------------|
|----------|------------|-----------------|---------------|

|         |       |       |       | SWITCH | SETTING |       |       |       |         | 1         |       |       | SWITCH | SETTING |            |            |       |
|---------|-------|-------|-------|--------|---------|-------|-------|-------|---------|-----------|-------|-------|--------|---------|------------|------------|-------|
| ADDRESS | SW1-1 | SW1-2 | SW1-3 | SW1-4  | SW1-5   | SW1-6 | SW1-7 | SW1-8 | ADDRESS | SW1-1     | SW1-2 | SW1-3 | SW1-4  | SW1-5   | SW1-6      | SW1-7      | SW1-8 |
| 49      | ON    | OFF   | OFF   | OFF    | ON      | ON    | OFF   | OFF   | 96      | OFF       | OFF   | OFF   | OFF    | OFF     | ON         | ON         | OFF   |
| 50      | OFF   | ON    | OFF   | OFF    | ON      | ON    | OFF   | OFF   | 97      | ON        | OFF   | OFF   | OFF    | OFF     | ON         | ON         | OFF   |
| 51      | ON    | ON    | OFF   | OFF    | ON      | ON    | OFF   | OFF   | 98      | OFF       | ON    | OFF   | OFF    | OFF     | ON         | ON         | OFF   |
| 52      | OFF   | OFF   | ON    | OFF    | ON      | ON    | OFF   | OFF   | 99      | ON        | ON    | OFF   | OFF    | OFF     | ON         | ON         | OFF   |
| 53      | ON    | OFF   | ON    | OFF    | ON      | ON    | OFF   | OFF   | 100     | OFF       | OFF   | ON    | OFF    | OFF     | ON         | ON         | OFF   |
| 54      | OFF   | ON    | ON    | OFF    | ON      | ON    | OFF   | OFF   | 101     | ON        | OFF   | ON    | OFF    | OFF     | ON         | ON         | OFF   |
| 55      | ON    | ON    | ON    | OFF    | ON      | ON    | OFF   | OFF   | 102     | OFF       | ON    | ON    | OFF    | OFF     | ON         | ON         | OFF   |
| 56      | OFF   | OFF   | OFF   | ON     | ON      | ON    | OFF   | OFF   | 103     | ON        | ON    | ON    | OFF    | OFF     | ON         | ON         | OFF   |
| 57      | ON    | OFF   | OFF   | ON     | ON      | ON    | OFF   | OFF   | 104     | OFF       | OFF   | OFF   | ON     | OFF     | ON         | ON         | OFF   |
| 58      | OFF   | ON    | OFF   | ON     | ON      | ON    | OFF   | OFF   | 105     | ON        | OFF   | OFF   | ON     | OFF     | ON         | ON         | OFF   |
| 59      | ON    | ON    | OFF   | ON     | ON      | ON    | OFF   | OFF   | 106     | OFF       | ON    | OFF   | ON     | OFF     | ON         | ON         | OFF   |
| 60      | OFF   | OFF   | ON    | ON     | ON      | ON    | OFF   | OFF   | 107     | ON        | ON    | OFF   | ON     | OFF     | ON         | ON         | OFF   |
| 61      | ON    | OFF   | ON    | ON     | ON      | ON    | OFF   | OFF   | 108     | OFF       | OFF   | ON    | ON     | OFF     | ON         | ON         | OFF   |
| 62      | OFF   | ON    | ON    | ON     | ON      | ON    | OFF   | OFF   | 109     | ON        | OFF   | ON    | ON     | OFF     | ON         | ON         | OFF   |
| 63      | ON    | ON    | ON    | ON     | ON      | ON    | OFF   | OFF   | 110     | OFF       | ON    | ON    | ON     | OFF     | ON         | ON         | OFF   |
| 64      | OFF   | OFF   | OFF   | OFF    | OFF     | OFF   | ON    | OFF   | 111     | ON        | ON    | ON    | ON     | OFF     | ON         | ON         | OFF   |
| 65      | ON    | OFF   | OFF   | OFF    | OFF     | OFF   | ON    | OFF   | 112     | OFF       | OFF   | OFF   | OFF    | ON      | ON         | ON         | OFF   |
| 66      | OFF   | ON    | OFF   | OFF    | OFF     | OFF   | ON    | OFF   | 113     | ON        | OFF   | OFF   | OFF    | ON      | ON         | ON         | OFF   |
| 67      | ON    | ON    | OFF   | OFF    | OFF     | OFF   | ON    | OFF   | 114     | OFF       | ON    | OFF   | OFF    | ON      | ON         | ON         | OFF   |
| 68      | OFF   | OFF   | ON    | OFF    | OFF     | OFF   | ON    | OFF   | 115     | ON        | ON    | OFF   | OFF    | ON      | ON         | ON         | OFF   |
| 69      | ON    | OFF   | ON    | OFF    | OFF     | OFF   | ON    | OFF   | 116     | OFF       | OFF   | ON    | OFF    | ON      | ON         | ON         | OFF   |
| 70      | OFF   | ON    | ON    | OFF    | OFF     | OFF   | ON    | OFF   | 117     | ON        | OFF   | ON    | OFF    | ON      | ON         | ON         | OFF   |
| 71      | ON    | ON    | ON    | OFF    | OFF     | OFF   | ON    | OFF   | 118     | OFF       | ON    | ON    | OFF    | ON      | ON         | ON         | OFF   |
| 72      | OFF   | OFF   | OFF   | ON     | OFF     | OFF   | ON    | OFF   | 119     | ON        | ON    | ON    | OFF    | ON      | ON         | ON         | OFF   |
| 73      | ON    | OFF   | OFF   | ON     | OFF     | OFF   | ON    | OFF   | 120     | OFF       | OFF   | OFF   | ON     | ON      | ON         | ON         | OFF   |
| 74      | OFF   | ON    | OFF   | ON     | OFF     | OFF   | ON    | OFF   | 121     | ON        | OFF   | OFF   | ON     | ON      | ON         | ON         | OFF   |
| 75      | ON    | ON    | OFF   | ON     | OFF     | OFF   | ON    | OFF   | 122     | OFF       | ON    | OFF   | ON     | ON      | ON         | ON         | OFF   |
| 76      | OFF   | OFF   | ON    | ON     | OFF     | OFF   | ON    | OFF   | 123     | ON        | ON    | OFF   | ON     | ON      | ON         | ON         | OFF   |
| 77      | ON    | OFF   | ON    | ON     | OFF     | OFF   | ON    | OFF   | 124     | OFF       | OFF   | ON    | ON     | ON      | ON         | ON         | OFF   |
| 78      | OFF   | ON    | ON    | ON     | OFF     | OFF   | ON    | OFF   | 125     | ON        | OFF   | ON    | ON     | ON      | ON         | ON         | OFF   |
| 79      | ON    | ON    | ON    | ON     | OFF     | OFF   | ON    | OFF   | 126     | OFF       | ON    | ON    | ON     | ON      | ON         | ON         | OFF   |
| 80      | OFF   | OFF   | OFF   | OFF    | ON      | OFF   | ON    | OFF   | 127     | ON        | ON    | ON    | ON     | ON      | ON         | ON         | OFF   |
| 81      | ON    | OFF   | OFF   | OFF    | ON      | OFF   | ON    | OFF   | 128     | OFF       | OFF   | OFF   | OFF    | OFF     | OFF        | OFF        | ON    |
| 82      | OFF   | ON    | OFF   | OFF    | ON      | OFF   | ON    | OFF   | 129     | ON        | OFF   | OFF   | OFF    | OFF     | OFF        | OFF        | ON    |
| 83      | ON    | ON    | OFF   | OFF    | ON      | OFF   | ON    | OFF   | 130     | OFF       | ON    | OFF   | OFF    | OFF     | OFF        | OFF        | ON    |
| 84      | OFF   | OFF   | ON    | OFF    | ON      | OFF   | ON    | OFF   | 131     | ON        | ON    | OFF   | OFF    | OFF     | OFF        | OFF        | ON    |
| 85      | ON    | OFF   | ON    | OFF    | ON      | OFF   | ON    | OFF   | 131     | OFF       | OFF   | ON    | OFF    | OFF     | OFF        | OFF        | ON    |
| 86      | OFF   | ON    | ON    | OFF    | ON      | OFF   | ON    | OFF   | 132     | ON        | OFF   | ON    | OFF    | OFF     | OFF        | OFF        | ON    |
| 87      | ON    | ON    | ON    | OFF    | ON      | OFF   | ON    | OFF   | 133     | OFF       | ON    | ON    | OFF    | OFF     | OFF        | OFF        | ON    |
| 88      | OFF   | OFF   | OFF   | ON     | ON      | OFF   | ON    | OFF   | 135     | ON        | ON    | ON    | OFF    | OFF     | OFF        | OFF        | ON    |
| 89      | OPP   | OFF   | OFF   | ON     | ON      | OFF   | ON    | OFF   | 135     | OFF       | OFF   | OFF   | OFF    | OFF     | OFF        | OFF        | ON    |
| 90      | OFF   | ON    | OFF   | ON     | ON      | OFF   | ON    | OFF   | 130     | ON        | OFF   | OFF   | ON     | OFF     | OFF        | OFF        | ON    |
| 90      | OFF   | ON    | OFF   | ON     | ON      | OFF   | ON    | OFF   | 137     | OFF       | OFF   | OFF   | ON     | OFF     | OFF        | OFF        | ON    |
| 91      | OFF   | OFF   | OFF   | ON     | ON      | OFF   | ON    | OFF   | 138     | OFF       | ON    | OFF   | ON     | OFF     | OFF        | OFF        | ON    |
| 92      | OFF   | OFF   | ON    | ON     | ON      | OFF   | ON    | OFF   | 139     | OFF       | OFF   | OFF   | ON     | OFF     | OFF        | OFF        | ON    |
|         |       |       |       |        |         |       |       |       |         |           |       |       |        |         |            |            |       |
| 94      | OFF   |       |       |        |         | OFF   |       | OFF   | 141     | ON<br>OFF | OFF   |       |        | OFF     | 0FF<br>0FF | OFF<br>OFF |       |
| 95      | ON    | ON    | ON    | ON     | ON      | OFF   | ON    | OFF   | 142     | OFF       | ON    | ON    | ON     | OFF     | Continue   |            | ON    |

(Continued on next page)

|         |       |       |       | SWITCH | SETTING |       |       |       |      |         |
|---------|-------|-------|-------|--------|---------|-------|-------|-------|------|---------|
| ADDRESS | SW1-1 | SW1-2 | SW1-3 | SW1-4  | SW1-5   | SW1-6 | SW1-7 | SW1-8 |      | ADDRESS |
| 143     | ON    | ON    | ON    | ON     | OFF     | OFF   | OFF   | ON    |      | 191     |
| 144     | OFF   | OFF   | OFF   | OFF    | ON      | OFF   | OFF   | ON    |      | 192     |
| 145     | ON    | OFF   | OFF   | OFF    | ON      | OFF   | OFF   | ON    |      | 193     |
| 146     | OFF   | ON    | OFF   | OFF    | ON      | OFF   | OFF   | ON    |      | 194     |
| 147     | ON    | ON    | OFF   | OFF    | ON      | OFF   | OFF   | ON    |      | 195     |
| 148     | OFF   | OFF   | ON    | OFF    | ON      | OFF   | OFF   | ON    |      | 196     |
| 149     | ON    | OFF   | ON    | OFF    | ON      | OFF   | OFF   | ON    |      | 197     |
| 150     | OFF   | ON    | ON    | OFF    | ON      | OFF   | OFF   | ON    |      | 198     |
| 151     | ON    | ON    | ON    | OFF    | ON      | OFF   | OFF   | ON    |      | 199     |
| 152     | OFF   | OFF   | OFF   | ON     | ON      | OFF   | OFF   | ON    |      | 200     |
| 153     | ON    | OFF   | OFF   | ON     | ON      | OFF   | OFF   | ON    | - E  | 201     |
| 154     | OFF   | ON    | OFF   | ON     | ON      | OFF   | OFF   | ON    |      | 202     |
| 155     | ON    | ON    | OFF   | ON     | ON      | OFF   | OFF   | ON    |      | 203     |
| 156     | OFF   | OFF   | ON    | ON     | ON      | OFF   | OFF   | ON    |      | 204     |
| 157     | ON    | OFF   | ON    | ON     | ON      | OFF   | OFF   | ON    |      | 205     |
| 158     | OFF   | ON    | ON    | ON     | ON      | OFF   | OFF   | ON    |      | 206     |
| 159     | ON    | ON    | ON    | ON     | ON      | OFF   | OFF   | ON    | - E  | 207     |
| 160     | OFF   | OFF   | OFF   | OFF    | OFF     | ON    | OFF   | ON    |      | 208     |
| 161     | ON    | OFF   | OFF   | OFF    | OFF     | ON    | OFF   | ON    | - 17 | 209     |
| 162     | OFF   | ON    | OFF   | OFF    | OFF     | ON    | OFF   | ON    |      | 210     |
| 163     | ON    | ON    | OFF   | OFF    | OFF     | ON    | OFF   | ON    | - 17 | 211     |
| 164     | OFF   | OFF   | ON    | OFF    | OFF     | ON    | OFF   | ON    |      | 212     |
| 165     | ON    | OFF   | ON    | OFF    | OFF     | ON    | OFF   | ON    | - 1  | 213     |
| 166     | OFF   | ON    | ON    | OFF    | OFF     | ON    | OFF   | ON    |      | 214     |
| 167     | ON    | ON    | ON    | OFF    | OFF     | ON    | OFF   | ON    |      | 215     |
| 168     | OFF   | OFF   | OFF   | ON     | OFF     | ON    | OFF   | ON    |      | 216     |
| 169     | ON    | OFF   | OFF   | ON     | OFF     | ON    | OFF   | ON    |      | 217     |
| 170     | OFF   | ON    | OFF   | ON     | OFF     | ON    | OFF   | ON    |      | 218     |
| 171     | ON    | ON    | OFF   | ON     | OFF     | ON    | OFF   | ON    |      | 219     |
| 172     | OFF   | OFF   | ON    | ON     | OFF     | ON    | OFF   | ON    |      | 220     |
| 173     | ON    | OFF   | ON    | ON     | OFF     | ON    | OFF   | ON    |      | 221     |
| 174     | OFF   | ON    | ON    | ON     | OFF     | ON    | OFF   | ON    |      | 222     |
| 175     | ON    | ON    | ON    | ON     | OFF     | ON    | OFF   | ON    |      | 223     |
| 176     | OFF   | OFF   | OFF   | OFF    | ON      | ON    | OFF   | ON    |      | 224     |
| 177     | ON    | OFF   | OFF   | OFF    | ON      | ON    | OFF   | ON    |      | 225     |
| 178     | OFF   | ON    | OFF   | OFF    | ON      | ON    | OFF   | ON    |      | 226     |
| 179     | ON    | ON    | OFF   | OFF    | ON      | ON    | OFF   | ON    |      | 227     |
| 180     | OFF   | OFF   | ON    | OFF    | ON      | ON    | OFF   | ON    |      | 228     |
| 181     | ON    | OFF   | ON    | OFF    | ON      | ON    | OFF   | ON    |      | 229     |
| 182     | OFF   | ON    | ON    | OFF    | ON      | ON    | OFF   | ON    |      | 230     |
| 183     | ON    | ON    | ON    | OFF    | ON      | ON    | OFF   | ON    |      | 231     |
| 184     | OFF   | OFF   | OFF   | ON     | ON      | ON    | OFF   | ON    |      | 232     |
| 185     | ON    | OFF   | OFF   | ON     | ON      | ON    | OFF   | ON    |      | 232     |
| 186     | OFF   | ON    | OFF   | ON     | ON      | ON    | OFF   | ON    |      | 233     |
| 187     | ON    | ON    | OFF   | ON     | ON      | ON    | OFF   | ON    |      | 234     |
| 188     | OFF   | OFF   | ON    | ON     | ON      | ON    | OFF   | ON    |      | 235     |
| 189     | ON    | OFF   | ON    | ON     | ON      | ON    | OFF   | ON    |      | 230     |
| 190     | OFF   | ON    | ON    | ON     | ON      | ON    | OFF   | ON    |      | 237     |

| Table B. | D Protocol Receiver Address (Continued) |
|----------|---|

|                |             |             |              | CMUTCH      | OCTTINO     |             |          |             |
|----------------|-------------|-------------|--------------|-------------|-------------|-------------|----------|-------------|
| 4000500        | 0.04/4      | 014/4 0     | 014/4 0      | SWITCH      |             | 0.044       | 0144 7   | 014/4 0     |
| ADDRESS<br>191 | SW1-1<br>0N | SW1-2<br>0N | <b>SW1-3</b> | SW1-4<br>0N | SW1-5<br>ON | SW1-6<br>ON | SW1-7    | SW1-8<br>ON |
| 191            | OFF         | OFF         | OFF          | OFF         | OFF         | OFF         | ON       | ON          |
| 193            | ON          | OFF         | OFF          | OFF         | OFF         | OFF         | ON       | ON          |
| 194            | OFF         | ON          | OFF          | OFF         | OFF         | OFF         | ON       | ON          |
| 195            | ON          | ON          | OFF          | OFF         | OFF         | OFF         | ON       | ON          |
| 196            | OFF         | OFF         | ON           | OFF         | OFF         | OFF         | ON       | ON          |
| 197            | ON          | OFF         | ON           | OFF         | OFF         | OFF         | ON       | ON          |
| 198            | OFF         | ON          | ON           | OFF         | OFF         | OFF         | ON       | ON          |
| 199            | ON          | ON          | ON           | OFF         | OFF         | OFF         | ON       | ON          |
| 200            | OFF         | OFF         | OFF          | ON          | OFF         | OFF         | ON       | ON          |
| 200            | ON          | OFF         | OFF          | ON          | OFF         | OFF         | ON       | ON          |
| 202            | OFF         | ON          | OFF          | ON          | OFF         | OFF         | ON       | ON          |
| 203            | ON          | ON          | OFF          | ON          | OFF         | OFF         | ON       | ON          |
| 204            | OFF         | OFF         | ON           | ON          | OFF         | OFF         | ON       | ON          |
| 205            | ON          | OFF         | ON           | ON          | OFF         | OFF         | ON       | ON          |
| 206            | OFF         | ON          | ON           | ON          | OFF         | OFF         | ON       | ON          |
| 207            | ON          | ON          | ON           | ON          | OFF         | OFF         | ON       | ON          |
| 208            | OFF         | OFF         | OFF          | OFF         | ON          | OFF         | ON       | ON          |
| 209            | ON          | OFF         | OFF          | OFF         | ON          | OFF         | ON       | ON          |
| 210            | OFF         | ON          | OFF          | OFF         | ON          | OFF         | ON       | ON          |
| 211            | ON          | ON          | OFF          | OFF         | ON          | OFF         | ON       | ON          |
| 212            | OFF         | OFF         | ON           | OFF         | ON          | OFF         | ON       | ON          |
| 213            | ON          | OFF         | ON           | OFF         | ON          | OFF         | ON       | ON          |
| 214            | OFF         | ON          | ON           | OFF         | ON          | OFF         | ON       | ON          |
| 215            | ON          | ON          | ON           | OFF         | ON          | OFF         | ON       | ON          |
| 216            | OFF         | OFF         | OFF          | ON          | ON          | OFF         | ON       | ON          |
| 217            | ON          | OFF         | OFF          | ON          | ON          | OFF         | ON       | ON          |
| 218            | OFF         | ON          | 0FF          | ON          | ON          | OFF         | ON       | ON          |
| 219            | ON          | ON          | OFF          | ON          | ON          | OFF         | ON       | ON          |
| 220            | OFF         | OFF         | ON           | ON          | ON          | OFF         | ON       | ON          |
| 221            | ON          | OFF         | ON           | ON          | ON          | OFF         | ON       | ON          |
| 222            | OFF         | ON          | ON           | ON          | ON          | OFF         | ON       | ON          |
| 223            | ON          | ON          | ON           | ON          | ON          | OFF         | ON       | ON          |
| 224            | OFF         | OFF         | OFF          | OFF         | OFF         | ON          | ON       | ON          |
| 225            | ON          | OFF         | OFF          | OFF         | OFF         | ON          | ON       | ON          |
| 226            | OFF         | ON          | OFF          | OFF         | OFF         | ON          | ON       | ON          |
| 227            | ON          | ON          | OFF          | OFF         | OFF         | ON          | ON       | ON          |
| 228            | OFF         | OFF         | ON           | OFF         | OFF         | ON          | ON       | ON          |
| 229            | ON          | OFF         | ON           | OFF         | 0FF         | ON          | ON       | ON          |
| 230            | OFF         | ON          | ON           | OFF         | OFF         | ON          | ON       | ON          |
| 231            | ON          | ON          | ON           | OFF         | OFF         | ON          | ON       | ON          |
| 232            | OFF         | OFF         | OFF          | ON          | OFF         | ON          | ON       | ON          |
| 233            | ON          | OFF         | OFF          | ON          | OFF         | ON          | ON       | ON          |
| 234            | OFF         | ON          | OFF          | ON          | OFF         | ON          | ON       | ON          |
| 235            | ON          | ON          | OFF          | ON          | OFF         | ON          | ON       | ON          |
| 236            | OFF         | OFF         | ON           | ON          | OFF         | ON          | ON       | ON          |
| 237            | ON          | OFF         | ON           | ON          | OFF         | ON          | ON       | ON          |
| 238            | OFF         | ON          | ON           | ON          | OFF         | ON          | ON       | ON          |
|                |             |             |              |             | 1           | Continua    | nd on no | wt pagal    |

(Continued on next page)

|         |       | SWITCH SETTING |       |       |       |       |       |       |  |  |
|---------|-------|----------------|-------|-------|-------|-------|-------|-------|--|--|
| ADDRESS | SW1-1 | SW1-2          | SW1-3 | SW1-4 | SW1-5 | SW1-6 | SW1-7 | SW1-8 |  |  |
| 239     | ON    | ON             | ON    | ON    | OFF   | ON    | ON    | ON    |  |  |
| 240     | OFF   | OFF            | OFF   | OFF   | ON    | ON    | ON    | ON    |  |  |
| 241     | ON    | OFF            | OFF   | OFF   | ON    | ON    | ON    | ON    |  |  |
| 242     | OFF   | ON             | OFF   | OFF   | ON    | ON    | ON    | ON    |  |  |
| 243     | ON    | ON             | OFF   | OFF   | ON    | ON    | ON    | ON    |  |  |
| 244     | OFF   | OFF            | ON    | OFF   | ON    | ON    | ON    | ON    |  |  |
| 245     | ON    | OFF            | ON    | OFF   | ON    | ON    | ON    | ON    |  |  |
| 246     | OFF   | ON             | ON    | OFF   | ON    | ON    | ON    | ON    |  |  |

Table B. D Protocol Receiver Address (Continued)

|         |       |       |       | SWITCH | SETTING |       |       |       |
|---------|-------|-------|-------|--------|---------|-------|-------|-------|
| ADDRESS | SW1-1 | SW1-2 | SW1-3 | SW1-4  | SW1-5   | SW1-6 | SW1-7 | SW1-8 |
| 247     | ON    | ON    | ON    | OFF    | ON      | ON    | ON    | ON    |
| 248     | OFF   | OFF   | OFF   | ON     | ON      | ON    | ON    | ON    |
| 249     | ON    | OFF   | OFF   | ON     | ON      | ON    | ON    | ON    |
| 250     | OFF   | ON    | OFF   | ON     | ON      | ON    | ON    | ON    |
| 251     | ON    | ON    | OFF   | ON     | ON      | ON    | ON    | ON    |
| 252     | OFF   | OFF   | ON    | ON     | ON      | ON    | ON    | ON    |
| 253     | ON    | OFF   | ON    | ON     | ON      | ON    | ON    | ON    |
| 254     | OFF   | ON    | ON    | ON     | ON      | ON    | ON    | ON    |

## **Specifications**

### **ELECTRICAL** Input Voltage

Input Voltage24 VAC or 100-240 VACInput Voltage Range±10%Power ConsumptionMaximum 60 watts (120 VA) per systemElectrical Connections6-foot wire harness with connections for power, video, data control, alarm inputs, and auxiliary outputs

One 0.75-inch (1.91 cm) NPT threaded opening

 $0.1^{\circ}$  to  $40^{\circ}$ /sec variable-speed operation  $0.1^{\circ}$  to  $40^{\circ}$ /sec variable-speed operation

360° continuous pan rotation

Unobstructed +90° to -90°

### MECHANICAL

Cable Entry Pan Movement Vertical Tilt Variable Pan/Tilt Speed Pan Tilt Preset Speeds Pan Tilt

### GENERAL

| Construction                   | 316L stainless steel                                |
|--------------------------------|---|
| Finish                         | Electropolish                                       |
| Viewing Window                 | 0.50-inch (12.7 mm) thick, soda-lime tempered glass |
| Operating Temperature          | -60°C to 60°C                                       |
| Unit Weight                    | 55 lb (25 kg)                                       |
| Effective Projected Area (EPA) | 196.1 square inches                                 |
| Effective Projected Area (EPA) | 196.1 square inches                                 |

40°/sec

40°/sec



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.

#### 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 on FT/FR8000 Series fiber optic products.
- · Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on Camclosure<sup>®</sup> and fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- · Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy<sup>®</sup>, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra<sup>®</sup>, Esprit<sup>®</sup>, ExSite<sup>™</sup>, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit<sup>®</sup> and WW5700 Series window wiper (excluding wiper blades).
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura<sup>™</sup> Series distributed network-based video products.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, 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 Pelco, Clovis, California. 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 which 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

In order to expedite parts returned to the factory for repair or credit, please call the factory 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).

All merchandise returned for credit may be subject to a 20% 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. Ship to the appropriate address below.

If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to: Service Department

Pelco 3500 Pelco Way Clovis, CA 93612-5699

If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:

If the goods are to be sent by a COURIER SERVICE, send the goods to:

Pelco 3500 Pelco Way Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

Pelco c/o Expeditors 473 Eccles Avenue South San Francisco, CA 94080 USA Phone: 650-737-1700 Fax: 650-737-0933



This equipment contains electrical or electronic components that must be recycled properly to comply with Directive 2002/96/EC of the European Union regarding the disposal of waste electrical and electronic equipment (WEEE). Contact your local dealer for procedures for recycling this equipment.

#### **REVISION HISTORY**

| Manual # | Date  | Comments  |
|----------|-------|---|
| C313M    | 11/04 | Original version.                                       |
| C313M-A  | 1/05  | Added 24 VAC power supply information per ECO 04-10256. |
| C313M-B  | 4/05  | Wire color change for Alarm COM per ECO 05-11019.       |
| C313M-C  | 5/05  | Added warning to provide access to communication wires. |
| C313M-D  | 8/05  | Revised dimension drawing per ECO 05-11303.             |
|          |       |   |

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