

## **SPECTRA® IV SERIES DISCREET DOME SYSTEM**

### **TECHNICAL SPECIFICATIONS**

### **SECURITY SYSTEM**

#### **DIVISION – 28 ELECTRONIC SAFETY AND SECURITY**

#### **LEVEL 1\_\_28 20 00 ELECTRONIC SURVEILLANCE**

#### **LEVEL 2\_\_28 23 00 VIDEO SURVEILLANCE**

#### **LEVEL 3\_\_28 23 29 VIDEO SURVEILLANCE REMOTE DEVICES AND SENSORS**

### **PART 2 - PRODUCTS**

#### **2.01 GENERAL**

- A. All equipment and materials used shall be standard components that are regularly manufactured and used in the manufacturer's system.
- B. All systems and components shall have been thoroughly tested and proven in actual use.
- C. All systems and components shall be provided with the availability of a toll-free (U.S. and Canada), 24-hour technical assistance program (TAP) from the manufacturer. The TAP shall allow for immediate technical assistance for either the dealer/installer or the end user at no charge for as long as the product is installed.
- D. All systems and components shall be provided with a one-day turnaround repair express and 24-hour parts replacement. The repair and parts express shall be guaranteed by the manufacturer on warranty and nonwarranty items.

#### **2.02 INDOOR/OUTDOOR CCTV CAMERA DOME SYSTEM**

- A. The indoor/outdoor CCTV camera dome system shall be a discreet, miniature camera dome system consisting of a dome drive with a variable speed/high speed pan/tilt drive unit with continuous 360° rotation; 1/4-inch high resolution color or color/black-white CCD camera; motorized zoom lens with optical and digital zoom; auto focus; and an enclosure consisting of a back box, lower dome, and a quick-install mounting.
- B. The indoor/outdoor CCTV camera dome system shall meet or exceed the following design and performance specifications.

#### **2.03 DOME DRIVE**

- A. The variable speed/high speed pan/tilt dome drive unit shall meet or exceed the following design and performance specifications:
  - 1. Pan Speed Variable between 400° per second continuous pan to 0.1° per second
  - 2. Vertical Tilt Unobstructed tilt of +2° to -92°
  - 3. Manual Control Speed Pan speed of 0.1° to 80° per second, and pan at 150° per second in turbo mode. Tilt operation shall range from 0.1° to 40° per second
  - 4. Automatic Preset Speed Pan speed of 400° and a tilt speed of 200° per second
  - 5. Presets 128 positions with a 20-character label available for each position; programmable camera settings, including selectable auto focus modes, iris level, LowLight™ limit, and backlight compensation for each preset; command to copy camera settings from one preset to another; and preset programming through control keyboard or through dome system on-screen menu
  - 6. Preset Accuracy ± 0.1°



7. Proportional Pan/Tilt Speed	Speed decreases in proportion to the increasing depth of zoom
8. Automatic Power-Up	User-selectable to the mode of operation. The dome will assume when power is cycled, including an automatic return to position or function before power outage
9. Zones	8 zones with up to 20-character labeling for each, with the ability to blank the video in the zone
10. Motor Drive	Cogged belt with 0.9° stepper motor
11. Motor Operating Mode	Microstep to 0.015° steps
12. Motor	Continuous duty and variable speed, operating at 18 to 32 VAC, 24 VAC nominal
13. Limit Stops	Programmable for manual panning, auto/random scanning, and frame scanning
14. Inner Liner	Rotating black ABS liner inside a sealed lower dome
15. Window Blanking	1 four-sided, user-defined shape, each side with different lengths; window blanking setting to turn off at user-defined zoom ratio; window blanking set to opaque gray or translucent smear; blank all video above user-defined tilt angle; blank all video below user-defined tilt angle
16. Patterns	1 user-defined programmable pattern including pan/tilt/zoom and preset functions, and pattern programming through control keyboard or through dome system on-screen menu
17. Pattern Length	1 pattern of user-defined length based on dome memory
18. Internal Clock	Internal system clock, user programmable for 12- or 24-hour day format and mm/dd/yy or dd/mm/yy calendar format
19. Scheduler	Internal scheduling system for programming presets, patterns, window blanks, alarms, and auxiliary functions based on internal clock settings
20. Autosensing	Automatically sense and respond to protocol utilized for controlling the unit whether Coaxitron® or RS-422 Pelco P or Pelco D protocols, and accept competitors' control protocols with the use of optional translator cards
21. Menu System	Built-in setup of programmable functions and multiple languages including English, French, Italian, Spanish, Portuguese, German, Russian, Turkish, Polish, and Czech
22. Auto Flip	Rotates dome 180° at bottom of tilt travel
23. Password Protection	Programmable settings with optional password protection
24. Clear	Clear individual, grouped, or all programmed settings
25. Freeze Frame	Freeze current scene of video during preset movement
26. Display Setup	User-definable locations of all labels and displays and user-selectable time duration of each display
27. Azimuth/Elevation/Zoom	On-screen display of pan/tilt locations and zoom ratio
28. Compass Display	On-screen display of compass heading and user-definable compass setup
34. Camera Title Overlay	20 user-definable characters on the screen camera title display
29. Video Output Level	User-selectable for normal or high output levels to compensate for long video wire runs

30. Dome Drive Compatibility

All dome drives are compatible with all back box configurations

- |                                    |   |
|------------------------------------|---|
| 31. RJ-45 Jack                     | Contains a plug-in jack on the dome drive for control and setup of the unit, the uploading of new operating code and language file updates, and is compatible with personal computers and PDAs such as Palm™ and iPAQ™                          |
| 32. Remote Data Port Compatibility | Ability to set up and control unit, and upload new operating code and language file updates through the easily accessible optional remote data port. Remote data port is also compatible with personal computers and PDAs such as Palm and iPAQ |
| 33. Power Consumption              | Maximum 70 VA   |
- B. The high resolution CCD camera shall meet or exceed the following design and performance specifications.

**Color Optic System (16X)**

- |                             |  |
|-----------------------------|--|
| 1. Image Sensor             | 1/4-inch interline transfer CCD                                  |
| 2. Scanning System          | 2:1 interlaced output  |
| 3. Effective Pixels         |  |
| a. NTSC                     | 768 x 494  |
| b. PAL                      | 752 x 582  |
| 4. Horizontal Resolution    |  |
| a. NTSC                     | >470 TVL   |
| b. PAL                      | >460 TVL   |
| 5. Lens                     | f/1.4 (focal length, 4~64 mm; 16X optical zoom, 8X digital zoom) |
| 6. Programmable Zoom Speeds | 1.9, 3.6, or 6.0 seconds   |
| 7. Horizontal Angle of View | 43° at 4 mm wide zoom, 3° at 64 mm telephoto zoom                |
| 8. Focus                    | Automatic with manual override                                   |
| 9. Sensitivity at 35 IRE    |  |
| a. NTSC/EIA                 | 0.05 lux at 1/2 sec shutter speed (color)                        |
| b. PAL/CCIR                 | 0.05 lux at 1/1.5 sec shutter speed (color)                      |
| 10. Synchronization System  | AC line lock phase adjustable through remote control, V-sync     |
| 11. White Balance           | Automatic with manual override                                   |
| 12. Shutter Speed           |  |
| a. NTSC                     | 1/2~1/30,000   |
| b. PAL                      | 1/1.5~1/30,000   |
| 13. Iris Control            | Automatic with manual override                                   |
| 14. Gain Control            | Automatic with manual override                                   |
| 15. Video Output            | 1 Vp-p, 75 ohms  |
| 16. Video Signal-to-Noise   | >50 dB   |

**Color/Black-White Optic System (18X)**

- |                          |                       |
|--------------------------|-----------------------|
| 1. Image Sensor          | 1/4-inch CCD          |
| 2. Scanning System       | 2:1 interlaced output |
| 3. Effective Pixels      |                       |
| a. NTSC                  | 724 x 494             |
| b. PAL                   | 724 x 582             |
| 4. Horizontal Resolution |                       |
| a. NTSC                  | >470 TVL              |
| b. PAL                   | >470 TVL              |

5. Lens	f/1.6 (focal length 3.8~68.4 mm; 18X optical zoom, 12X digital zoom)
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6. Programmable Zoom Speeds	2.9, 4.2, or 5.8 seconds
7. Horizontal Angle of View	51° at 3.8 mm wide zoom, 3° at 68.4 mm telephoto zoom
8. Focus	Automatic with manual override
9. Sensitivity at 35 IRE	
a. NTSC/EIA	0.08 lux at 1/2 sec shutter speed (color) 0.3 lux at 1/60 sec shutter speed (B-W) 0.013 lux at 1/2 sec shutter speed (B-W)
b. PAL/CCIR	0.08 lux at 1/1.5 sec shutter speed (color) 0.3 lux at 1/50 sec shutter speed (B-W) 0.013 lux at 1/1.5 sec shutter speed (B-W)
10. Synchronization System	Internal/AC line lock phase adjustable through remote control, V-sync
11. White Balance	Automatic with manual override
12. Shutter Speed	
a. NTSC	1/2~1/30,000
b. PAL	1/1.5~1/30,000
13. Iris Control	Automatic with manual override
14. Gain Control	Automatic/ off
15. Video Output	1 Vp-p, 75 ohms
16. Video Signal-to-Noise	>50 dB

## 2.04 BACK BOX AND LOWER DOME

The back box and lower dome shall meet or exceed the following design and performance specifications:

### A. Pendant, Environmental

1. Connection to Dome Drive	Quick, positive mechanical and electrical disconnect without the use of any tools
2. Trap Door	Easy access trap door that allows complete access to the installation wiring, and provides complete separation of the wiring from the dome drive mechanics when closed
3. Terminal Strips	Removable terminal strips with screw-type terminals for use with a wide range of wire gauge sizes
4. Integrated UTP Circuit	Integrated circuit that converts video output to passive, UTP transmission
5. Fiber Optic Compatibility	Ability to plug into back box an optional Pelco fiber optic module, or a third-party board that converts video output and control input for fiber optic transmission
6. Third-Party Control Systems	Ability to plug in an optional TXB board that converts control signals from selected third-party controllers
6. Installation	Quick-mount wall, corner, pole, parapet, or ceiling adapter
7. Cable Entry	Through a 1.5-inch NPT fitting
8. Environmental Features	Factory-installed heaters, blowers, and sun shroud
9. Operating Temperatures	Maximum temperature range of -60° to 140°F (-51.1° to 60°C) for two hours, and a continuous operating range of -50° to 122°F (-51.1° to 50°C)
10. Color	Gray, baked-on enamel powder coat
11. Construction	Aluminum

12. Lower Dome Material	Acrylic, optically clear, with no distortion in any portion of the dome up to +2° above the horizontal
13. Dome Color	Clear and smoked versions
14. Trim Ring Connection	2 captivated screws

**B. In-Ceiling, Environmental**

- |                                |  |
|--------------------------------|--|
| 1. Connection to Dome Drive    | Quick, positive mechanical and electrical disconnect without the use of any tools  |
| 2. Trap Door                   | Easy access trap door that allows complete access to the installation wiring, and provides complete separation of the wiring from the dome drive mechanics when closed |
| 3. Terminal Strips             | Removable terminal strips with screw-type terminals for use with a wide range of wire gauge sizes  |
| 4. Integrated UTP Circuit      | Integrated circuit board that converts video output to passive, UTP transmission   |
| 5. Fiber Optic Compatibility   | Ability to plug into back box an optional Pelco fiber optic module, or a third-party board that converts video output and control input for fiber optic transmission   |
| 6. Third-Party Control Systems | Ability to plug in an optional TXB board that converts control signals from selected third-party controllers   |
| 7. Installation                | Quick-mount spring clips   |
| 8. Cable Entry                 | Through a 0.75-inch conduit hole   |
| 9. Environmental Features      | Factory-installed heaters and blowers  |
| 10. Operating Temperatures     | Maximum temperature range of -60° to 140°F (-51.1° to 60°C) for two hours, and a continuous operating range of -50° to 122°F (-51.1° to 50°C)                          |
| 11. Color                      | Black, baked-on enamel powder coat   |
| 12. Construction               | Aluminum   |
| 13. Lower Dome Material        | Acrylic, optically clear with no distortion in any portion of the dome up to +2° above the horizontal  |
| 14. Dome Color                 | Clear and smoked versions  |
| 15. Trim Ring Connection       | 2 captivated screws  |

**C. In-Ceiling, Interior**

- |                                |  |
|--------------------------------|--|
| 1. Connection to Dome Drive    | Quick, positive mechanical and electrical disconnect without the use of any tools  |
| 2. Trap Door                   | Easy access trap door that allows complete access to the installation wiring, and provides complete separation of the wiring from the dome drive mechanics when closed |
| 3. Terminal Strips             | Removable terminal strips with screw-type terminals for use with a wide range of wire gauge sizes  |
| 4. Integrated UTP Circuit      | Integrated circuit board that converts video output to passive, UTP transmission   |
| 5. Fiber Optic Compatibility   | Ability to plug into back box an optional Pelco fiber optic module, or a third-party board that converts video output and control input for fiber optic transmission   |
| 6. Third-Party Control Systems | Ability to plug in optional TXB board that converts control signals from selected third-party controllers  |
| 7. Installation                | Quick-mount spring clips   |
| 8. Cable Entry                 | Through a 0.75-inch conduit hole   |
| 9. Operating Temperatures      | Maximum temperature range of 32° to 122°F (0° to 50°C)   |
| 10. Color                      | Black back box with baked-on enamel powder coat; white trim ring   |
| 11. Construction               | Aluminum   |
| 12. Lower Dome Material        | Acrylic, optically clear with no distortion in any portion of the dome up to +2° above the horizontal  |

13. Dome Color	Clear, smoked, chrome, and gold versions
14. Trim Ring Connection	Snaps in place
15. Safety Cable	Plastic tether
<b>D. Pendant, Standard</b>	
1. Connection to Dome Drive	Quick, positive mechanical and electrical disconnect without the use of any tools
2. Trap Door	Easy access trap door that allows complete access to the installation wiring, and provides complete separation of the wiring from the dome drive mechanics when closed
3. Terminal Strips	Removable terminal strips with screw-type terminals for use with a wide range of wire gauge sizes
4. Integrated UTP Circuit	Integrated circuit board that converts video output to passive UTP transmission
5. Fiber Optic Compatibility	Ability to plug into back box an optional Pelco fiber optic module, or a third-party board that converts video output and control input for fiber optic transmission
6. Third-Party Control Systems	Ability to plug in an optional TXB board that converts control signals from selected third-party controllers
7. Installation	Quick-mount wall, corner, pole, parapet, or ceiling adapter
8. Cable Entry	Through a 1.5-inch NPT fitting
9. Operating Temperatures	Maximum temperature range of 25° to 113°F (-4° to 45°C) for two hours, and a continuous operating range of 25° to 95°F (-4° to 35°C)
10. Colors	Gray or black, baked-on enamel powder coat
11. Construction	Aluminum
12. Lower Dome Material	Acrylic, optically clear with no distortion in any portion of the dome up to +2° above the horizontal
13. Dome Color	Clear, smoked, chrome, and gold versions
14. Trim Ring Connection	2 captivated screws
<b>E. Surface Mount, Interior</b>	
1. Connection to Dome Drive	Quick, positive mechanical and electrical disconnect without the use of any tools
2. Trap Door	Easy access trap door that allows complete access to the installation wiring, and provides complete separation of the wiring from the dome drive mechanics when closed
3. Terminal Strips	Removable terminal strips with screw-type terminals for use with a wide range of wire gauge sizes
4. Integrated UTP Circuit	Integrated circuit board that converts video output to passive UTP transmission
5. Fiber Optic Compatibility	Ability to plug into back box an optional Pelco fiber optic module, or a third-party board that converts video output and control input for fiber optic transmission
6. Third-Party Control Systems	Ability to plug in an optional TXB board that converts control signals from selected third-party controllers
7. Installation	Surface mount
8. Cable Entry	Through a 0.75-inch conduit hole
9. Operating Temperatures	Maximum temperature range of 32° to 122°F (0° to 50°C)

10. Colors	Black or white finish
11. Construction	Plastic

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12. Lower Dome Material	Acrylic, optically clear with no distortion in any portion of the dome up to +2° above the horizontal
13. Dome Color	Clear, smoked, chrome, and gold versions
14. Trim Ring Connection	Snaps in place
15. Safety Cable	Plastic tether

#### **F. Heavy Duty In-Ceiling Interior**

1. Connection to Dome Drive	Quick, positive mechanical and electrical disconnect without the use of any tools
2. Trap Door	Easy-access trap door that allows complete access to the installation wiring and, when closed, provides complete separation of the wiring from the dome drive mechanics
3. Terminal Strips	Removable terminal strips with screw-type terminals for use with a wide range of wire gauge sizes
4. Auxiliary Connections	One Form-C relay output at <40 V, 2 A maximum, and a second open collector output at 32 VDC maximum at 30 mA
5. Alarm Inputs	Seven alarm inputs
6. Integrated UTP Circuit	Integrated circuit that converts video output to passive UTP transmission
7. Installation	Quick-mount spring clips
8. Cable Entry	Through a .75-inch conduit hole
9. Operating Temperatures	Maximum temperature range of 32° to 122°F (0° to 50°C)
10. Memory	Built-in memory storage of camera and location- specific dome settings such as presets and patterns. If new dome drive is installed in back box, all settings to download automatically into new dome drive
11. Color	Gray, baked-on enamel powder coat
12. Construction	Aluminum, with 0.090-inch thick, clear polycarbonate lower dome and aluminum trim ring
13. Trim Ring Connection	Barrel type key locks
14. Lower Dome Protection	Available with optional stainless steel cage around lower dome. Bars of cage not to interfere with picture at medium to high zoom rates

#### **G. Heavy Duty Pendant Environmental**

1. Connection to Dome Drive	Quick, positive mechanical and electrical disconnect without the use of any tools
2. Trap Door	Easy-access trap door that allows complete access to the installation wiring and, when closed, provides complete separation of the wiring from the dome drive mechanics
3. Terminal Strips	Removable terminal strips with screw-type terminals for use with a wide range of wire gauge sizes
4. Auxiliary Connections	One Form-C relay output at <40 V, 2 A maximum, and a second open collector output at 32 VDC maximum at 30 mA
5. Alarm Inputs	Seven alarm inputs

6. Integrated UTP Circuit

Integrated circuit that converts video output to passive UTP transmission

7. Installation

Quick-mount wall, corner, pole, parapet, or ceiling adapter

8. Cable Entry

Through a 1.5-inch NPT fitting

9. Environmental Features

Factory-installed heaters, blowers, and sun shroud

10. Operating Temperatures

Maximum temperature range of -60° to 140°F (-51.1° to 60°C) for two hours, and a continuous operating range of -50° to 122°F (-51.1° to 50°C) continuous operation

11. Memory

Built-in memory storage of camera and location-specific dome settings such as presets and patterns. If new dome drive is installed in back box, all settings to download automatically into new dome drive

12. Color

Gray, baked-on enamel powder coat

13. Construction

Tough, dual wall aluminum enclosure with a 0.090-inch thick, clear polycarbonate lower dome and aluminum trim ring

14. Trim Ring Connection

Barrel type key locks

15. Lower Dome Protection

Available with optional stainless steel cage around lower dome. Bars of cage not to interfere with picture at medium to high zoom rates

#### H. Heavy Duty Pendant Standard

1. Connection to Dome Drive

Quick, positive mechanical and electrical disconnect without the use of any tools

2. Trap Door

Easy-access trap door that allows complete access to the installation wiring and, when closed, provides complete separation of the wiring from the dome drive mechanics

3. Terminal Strips

Removable terminal strips with screw-type terminals for use with a wide range of wire gauge sizes

4. Auxiliary Connections

One Form-C relay output at <40 V, 2 A maximum, and a second open collector output at 32 VDC maximum at 30 mA

5. Alarm Inputs

Seven alarm inputs

6. Integrated UTP Circuit

Integrated circuit that converts video output to passive UTP transmission

7. Installation

Quick-mount wall, corner, pole, parapet, or ceiling adapter

8. Cable Entry

Through a 1.5-inch NPT fitting

9. Operating Temperatures

Maximum temperature range of 32° to 140°F (0° to 60°C) for two hours, and a continuous operating range of 32° to 122°F (0° to 50°C) continuous operation

10. Memory

Built-in memory storage of camera and location-specific dome settings such as presets and patterns. If new dome drive is installed in back box, all settings to download automatically into new dome drive

11. Colors

Gray baked-on enamel powder coat

12. Construction

Tough, dual wall aluminum enclosure with a 0.090-inch thick, clear polycarbonate lower dome and aluminum trim ring

13. Trim Ring Connection

Barrel type key locks

14. Lower Dome Protection

Available with optional stainless steel cage around lower dome. Bars of cage not to interfere with picture at medium to high zoom rates

**I. Stainless Steel Pendant Environmental**

- |                             |   |
|-----------------------------|---|
| 1. Connection to Dome Drive | Quick, positive mechanical and electrical disconnect without the use of any tools   |
| 2. Trap Door                | Easy-access trap door that allows complete access to the installation wiring and, when closed, provides complete separation of the wiring from the dome drive mechanics                                     |
| 3. Terminal Strips          | Removable terminal strips with screw-type terminals for use with a wide range of wire gauge sizes   |
| 4. Auxiliary Connections    | One Form-C relay output at <40 V, 2 A maximum, and a second open collector output at 32 VDC maximum at 30 mA  |
| 5. Alarm Inputs             | Seven alarm inputs  |
| 6. Integrated UTP Circuit   | Integrated circuit that converts video output to passive UTP transmission   |
| 7. Installation             | Quick-mount wall, corner, pole, parapet, or ceiling adapter   |
| 8. Cable Entry              | Through a 1.5-inch NPT fitting  |
| 9. Environmental Features   | Factory-installed heaters, blowers, and sun shroud  |
| 10. Operating Temperatures  | Maximum temperature range of -60° to 140°F (-51.1° to 60°C) for two hours, and a continuous operating range of -50° to 122°F (-51.1° to 50°C) continuous operation  |
| 11. Memory                  | Built-in memory storage of camera and location- specific dome settings such as presets and patterns. If new dome drive is installed in back box, all settings to download automatically into new dome drive |
| 12. Color                   | Gray, baked-on enamel powder coat   |
| 13. Construction            | All 316 stainless steel enclosure, sun shroud, trim ring, and mounting plate  |
| 14. Lower Dome Material     | Acrylic, optically clear, with no distortion in any portion of the dome up to +2° above the horizontal  |
| 15. Dome Color              | Clear and smoked versions   |
| 16. Trim Ring Connection    | Two screws  |

**J. Pressurized Stainless Steel Pendant Environmental**

- |                             |   |
|-----------------------------|---|
| 1. Connection to Dome Drive | Quick, positive mechanical and electrical disconnect without the use of any tools   |
| 2. Trap Door                | Easy-access trap door that allows complete access to the installation wiring and, when closed, provides complete separation of the wiring from the dome drive mechanics |
| 3. Terminal Strips          | Removable terminal strips with screw-type terminals for use with a wide range of wire gauge sizes   |
| 4. Auxiliary Connections    | One Form-C relay output at <40 V, 2 A maximum, and a second open collector output at 32 VDC maximum at 30 mA  |
| 5. Alarm Inputs             | Seven alarm inputs  |

6. Integrated UTP Circuit	Integrated circuit that converts video output to passive UTP transmission
7. Installation	Quick-mount wall, corner, pole, parapet, or ceiling adapter
8. Cable Entry	Through a prewired, pressure-rated multiconductor fitting
9. Environmental Features	Factory-installed heaters, blowers, and sun shroud

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10. Operating Temperatures	Maximum temperature range of -60° to 140°F (-51.1° to 60°C) for two hours, and a continuous operating range of -50° to 122°F (-51.1° to 50°C) continuous operation
11. Memory	Built-in memory storage of camera and location- specific dome settings such as presets and patterns. If new dome drive is installed in back box, all settings to download automatically into new dome drive
12. Color	Gray, baked-on enamel powder coat
13. Construction	All 316 stainless steel enclosure, sun shroud, trim ring, and mounting plate
14. Lower Dome Material	Polycarbonate, optically clear, with no distortion in any portion of the dome up to +2° above the horizontal
15. Dome Color	Clear and smoked versions
16. Trim Ring Connection	Stainless steel V-band
17. Pressure Ports	Schrader valve and pressure relief valve
18. Operating Pressure	5 psig typical, 7 psig pressure relief
19. Internal Sensors	Pressure, dew point, and temperature
20. Internal Sensor Reporting	On-screen display
21. Sensor Out-of-Range Reporting	On-screen alerts with acknowledgment options and selectable position on the display monitor.
22. Fiber Optic Feedthrough	Optional single-mode or multimode fiber optic

## 2.05 DOME SYSTEM DIMENSIONS

A. Bubble Diameter, All Models	Maximum of 5.9 inches (15 cm)
B. Pendant, Environmental	10.6-inch (26.9 cm) overall length (including dome) by 8.6-inch (21.8 cm) diameter
C. In-Ceiling, Environmental	4.4 inches (11.0 cm) above ceiling, lower dome 4.3 inches (10.9 cm) below ceiling, 8.6-inch (21.8 cm) diameter;
D. In-Ceiling, Interior	5.2 inches (13.2 cm) above ceiling, 3.5 inches (8.8 cm) below ceiling, 8.2-inch (20.8 cm) diameter
E. Pendant, Standard	Pendant 10.6-inch (26.9 cm) overall length (including dome) by 8.6-inch (21.8 cm) diameter
F. Surface Mount, Interior	8.7 inches (22.0 cm) by 7.6-inch (19.3 cm) diameter
G. Heavy Duty In-Ceiling Interior	5.22 inches (13.26 cm) above ceiling, 3.53 inches (8.97 cm) below ceiling, 8.52-inch (20.96 cm) diameter; lower dome maximum of 2.75 inches (6.7 cm) below ceiling
H. Heavy Duty Pendant Environ.	Pendant 10.1 inch (25.65 cm) overall length (including dome) by 9.7-inch (24.64 cm) diameter
I. Heavy Duty Pendant Standard	Pendant 10.1 inch (25.65 cm) overall length (including dome) by 9.7-inch (24.64 cm) diameter
J. Stainless Steel Pendant Environ.	Pendant 10.76-inch (27.33 cm) overall length (including dome) by 9.7-inch (24.7 cm) diameter
K. Stainless Steel Pressurized Environmental Pendant	Pendant 11.63-inch (29.5 cm) overall length (including dome) by 10.5-inch (26.7 cm) diameter

## 2.06 DOME SYSTEM WEIGHTS

A. Pendant, Environmental	7.4 lb (3.34 kg)
B. In-Ceiling, Environmental	6.0 lb (2.7 kg)
C. In-Ceiling, Interior	5.0 lb (2.3 kg)
D. Pendant, Standard	6.3 lb (2.86 kg)
E. Surface Mount, Interior	4.4 lb (2.0 kg)

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F. Heavy Duty In-Ceiling Interior	
1. Back Box	2.17lb (0.98 kg)
2. Lower Dome	1.6 lb (0.73 kg)
3. Lower Dome with Cage	3.6 lb (1.63 kg)
G. Heavy Duty Pendant Environ.	
1. Back Box	4.75 lb (2.15 kg)
2. Lower Dome	1.83 lb (0.83 kg)
3. Lower Dome with Cage	3.83 lb (1.74 kg)
H. Heavy Duty Pendant Standard	
1. Back Box	4.45 lb (2.02 kg)
2. Lower Dome	1.83 lb (0.83 kg)
3. Lower Dome with Cage	3.83 lb (1.74 kg)
I. Stainless Steel Pendant Environ.	9.0 lb (4.1 kg)
J. Stainless Steel Pressurized Environmental Pendant	11.0 lb (5.0 kg)

## 2.07 MANUFACTURER'S WARRANTY

- A. Repair or replacement of defective parts for a period of three years from the date of shipment, including continuous motion modes.

## 2.08 CERTIFICATIONS AND RATINGS

A. Certifications	
All Models	UL and cUL, FCC Class B, and CE Class B
B. Ratings	
1. Pendant Environmental	Meets NEMA Type 4X, IP66 standards
2. In-Ceiling Environmental	Meets NEMA Type 4X, IP66 standards
3. Pendant Standard	Meets NEMA Type 4X, IP66 standards
4. Heavy Duty In-Ceiling Interior	Meets NEMA Type 1, IP40 standards
5. Heavy Duty Pendant Environ.	Meets NEMA Type 4X, IP66 standards
6. Heavy Duty Pendant Standard	Meets NEMA Type 4X, IP66 standards
7. StainlessSteel Pendant Environ.	Meets NEMA Type 4X, IP66 standards
8. Stainless Steel Pressurized	Meets NEMA Type 6P, IP67 standards

## 2.09 MODELS

- A. The discreet CCTV camera dome system shall be the Pelco Spectra IV Series.

### Color Dome System (16X)

Type	Back Box	Model	Dome
Surface Mount	White	SD4TC-SMW-0	Smoked
		SD4TC-SMW-1	Clear
		SD4TC-SMW-2	Chrome

Surface Mount	Black	SD4TC-SMW-3	Gold
		SD4TC-SMB-0	Smoked
		SD4TC-SMB-1	Clear
		SD4TC-SMB-2	Chrome
		SD4TC-SMB-3	Gold

In-Ceiling, Indoor	Black	SD4TC-F0 SD4TC-F1 SD4TC-F2 SD4TC-F3	Smoked Clear Chrome Gold
In-Ceiling, Environmental	Black	SD4TC-F-E0 SD4TC-F-E1	Smoked Clear
Pendant, Standard	Black	SD4TC-PB-0 SD4TC-PB-1 SD4TC-PB-2 SD4TC-PB-3	Smoked Clear Chrome Gold
Pendant, Standard	Lt. Gray	SD4TC-PG-0 SD4TC-PG-1 SD4TC-PG-2 SD4TC-PG-3	Smoked Clear Chrome Gold
Pendant, Environmental	Lt. Gray	SD4TC-PG-E0 SD4TC-PG-E1	Smoked Clear
Heavy Duty In-Ceiling, Without Cage	Lt. Gray	SD4TC-HF1	Clear
Heavy Duty In-Ceiling, With Cage	Lt. Gray	SD4TC-HCF1	Clear
Heavy Duty Pendant, Standard Without Cage	Lt. Gray	SD4TC-HP1	Clear
Heavy Duty Pendant, Standard With Cage	Lt. Gray	SD4TC-HCP1	Clear
Heavy Duty Pendant, Environmental Without Cage	Lt. Gray	SD4TC-HPE1	Clear
Heavy Duty Pendant, Environmental With Cage	Lt. Gray	SD4TC-HCPE1	Clear
Stainless Steel Pendant, Environmental	Lt. Gray	SD4TC-PSGE0 SD4TC-PSGE1	Smoked Clear
Stainless Steel Pendant, Pressurized Environmental	Lt. Gray	SD4TC-PRE0 SD4TC-PRE1	Smoked Clear
Stainless Steel Pendant, Pressurized Environmental With Single-Mode Fiber Optic Feedthrough	Lt. Gray	SD4TC-PRSE0 SD4TC-PRSE1	Smoked Clear
Stainless Steel Pendant, Pressurized Environmental With Multimode Fiber Optic Feedthrough or approved equal	Lt. Gray	SD4TC-PRME0 SD4TC-PRME1	Smoked Clear

**Color/Black-White Dome System (18X)**

<u>Type</u>	<u>Back Box</u>	<u>Model</u>	<u>Dome</u>
Surface Mount	White	SD418-SMW-0	Smoked
		SD418-SMW-1	Clear
		SD418-SMW-2	Chrome
		SD418-SMW-3	Gold
Surface Mount	Black	SD418-SMB-0	Smoked
		SD418-SMB-1	Clear
		SD418-SMB-2	Chrome
		SD418-SMB-3	Gold
In-Ceiling, Indoor	Black	SD418-F0	Smoked
		SD418-F1	Clear
		SD418-F2	Chrome
		SD418-F3	Gold
In-Ceiling, Environmental	Black	SD418-F-E0	Smoked
		SD418-F-E1	Clear
Pendant, Standard	Black	SD418-PB-0	Smoked
		SD418-PB-1	Clear
		SD418-PB-2	Chrome
		SD418-PB-3	Gold
Pendant, Standard	Lt. Gray	SD418-PG-0	Smoked
		SD418-PG-1	Clear
		SD418-PG-2	Chrome
		SD418-PG-3	Gold
Pendant, Environmental	Lt. Gray	SD418-PG-E0	Smoked
		SD418-PG-E1	Clear
Heavy Duty In-Ceiling, Without Cage	Lt. Gray	SD418-HF1	Clear
Heavy Duty In-Ceiling, With Cage	Lt. Gray	SD418-HCF1	Clear
Heavy Duty Pendant, Standard Without Cage	Lt. Gray	SD418-HP1	Clear
Heavy Duty Pendant, Standard With Cage	Lt. Gray	SD418-HCP1	Clear
Heavy Duty Pendant, Environmental Without Cage	Lt. Gray	SD418-HPE1	Clear
Heavy Duty Pendant, Environmental With Cage	Lt. Gray	SD418-HCPE1	Clear
Stainless Steel Pendant, Environmental	Lt. Gray	SD418-PSGE0	Smoked
		SD418-PSGE1	Clear

Stainless Steel Pendant, Pressurized Environmental	Lt. Gray	SD418-PRE0 SD418-PRE1	Smoked Clear
Stainless Steel Pendant, Pressurized Environmental With Single-Mode Fiber Optic Feedthrough	Lt. Gray	SD418-PRSE0 SD418-PRSE1	Smoked Clear
Stainless Steel Pendant, Pressurized Environmental With Multimode Fiber Optic Feedthrough or approved equal	Lt. Gray	SD418-PRME0 SD418-PRME1	Smoked Clear

(Revised November 5, 2009)