

# **Spectra III™ Series Dome Systems**

### HIGH-PERFORMANCE INTEGRATED DOME SYSTEMS

#### **Product Features**

- Auto Focus, High-Resolution Integrated LowLight<sup>™</sup> Color Camera/Optics Package
- 18X Day/Night Camera (SD5318 Series)
- Freeze Frame Between Presets
- One Dynamic Window Blank
- 16X Color Camera (SD53TC Series)
- Zone Blanking
- Camera Title Overlay, 20 User-Definable Characters
- RJ-45 Data Port for Software Upgrades
- On-Screen Compass and Tilt Display
- Multilanguage On-Screen Menus
- Password Protection
- Integral, Autosensing, Multi-Protocol Receiver/Driver
- 5.9-inch Acrylic Bubble
- "Auto Flip" Dome Rotation
- Quick Disconnect Dome Drive
- One Pattern
- Built-in Surge and Limited Lightning Protection

The **Spectra III**<sup>™</sup> **Series Dome System** is a cost-effective alternative to Pelco's popular Spectra III™ SE Series Dome System. The Integrated Dome System consists of a back box, dome drive, and lower dome. Components may be ordered as a complete system or separately. This flexibility allows for future system upgrades. The **Spectra III** can be upgraded with the Spectra III SE dome drive, giving the system all the programmable features of the Spectra III SE, excluding built-in back box memory, relay and auxiliary functions.

Spectra III Series back box options include an environmental inceiling model that is ideal for outdoor soffits, an indoor surface mount, indoor in-ceiling model and pendant styles for standard and environmental installations. All environmental in-ceiling models meet IP66 and NEMA Type 4X standards.

All cameras in **Spectra III Series** dome drives feature LowLight™ Technology. The day/night model also features an 18X lens, freeze frame between presets, and one programmable window blank. All models include on-screen compass and tilt display; multilanguage menus for English, Spanish, Portuguese, Italian, French, and German; optional menus for Russian, Polish, Turkish, and Czechoslovakian; and an RJ-45 data port for software uploads and on-site setup and programming.





**ENVIRONMENTAL PENDANT** MODEL SD53TC-PG-E0 (SHOWN WITH SWM-GY WALL MOUNT)

- · Optional UTP Video Converter
- Compatible with Pelco's FS85011 and Third-Party Fiber Optic Transmitters
- · Heavy-Duty and Stainless Steel Models Available

**Spectra III** variable speed capabilities range from a smooth, fast pan motion of 250 degrees per second to a smooth "creep" speed of 0.1 degree per second. The system is capable of 360 degrees rotation and has an "auto flip" feature that allows the dome to rotate 180 degrees and reposition itself for uninterrupted viewing of any subject that passes directly beneath the dome.

Optional diagnostic/installation tools include a remote monitor kit (IPS-RMK) and a remote monitor cable (IPS-CABLE). These accessories allow the installer to view video, control PTZ, and perform system setup and software upgrades at the installation site. The **IPS-RMK** is a stand-alone kit consisting of a 5.6-inch TFT-LCD monitor, Palm<sup>™</sup> OS compatible handheld and interface cable, carrying case, and the remote monitor cable (IPS-CABLE).

Also available are video conversion modules for applications using unshielded twisted pair (UTP) and fiber. See OPTIONAL ACCESSORIES for information



IP66











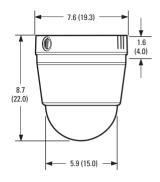
#### **COMPONENT FEATURES**

#### **Back Box and Lower Dome**

#### **Surface Mount (Indoor)**

- · Available in Black or White Finish
- Installs Quickly and Easily to Any Type of Ceiling
- Quick Disconnect to Dome Drive
- · Injection-Molded Plastic
- 5.9-Inch Acrylic Bubble

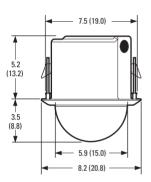




#### In-Ceiling (Indoor)

- Single Back Box for Suspended or Hard Ceiling Applications
- Requires 5.25-Inch Space Above Ceiling and 3.25 Inches Below
- 5.9-Inch Acrylic Bubble
- Minimum Ceiling Thickness 0.5-Inch; Maximum 1.75 Inches
- · Quick Disconnect to Dome Drive
- Meets NEMA Type 1, IP40 Standards
- Aluminum Construction
- Suitable for Use in Environmental Air Handling Spaces

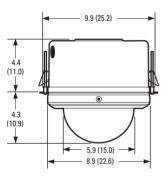




#### **Environmental In-Ceiling**

- Single Back Box for Hard Ceiling Applications
- Requires 4.4-Inch Space Above Ceiling and 4.3 Inches Below
- Includes Heater and Fan
- Minimum Ceiling Thickness 0.5-Inch; Maximum 1.75 Inches
- 5.9-Inch Acrylic Bubble
- · Quick Disconnect to Dome Drive
- Meets NEMA Type 4X, IP66 Stardards
- Aluminum Construction



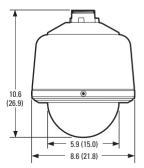


#### **Standard and Environmental Pendant**

- Standard and Environmental Models
- Standard Pendant Available in Black or Gray Finish; Environmental Pendant Gray Finish Only
- · Quick Disconnect to Dome Drive
- Meets NEMA Type 4X, IP66 Standards
- Aluminum Construction
- 5.9-Inch Acrylic Bubble
- Environmental Model Includes Sun Shield, Fan, and Heater



(ENVIRONMENTAL DOME WITH SUN SHROUD SHOWN)



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

## **TECHNICAL SPECIFICATIONS**

#### **Dome Drive**

- 99 Presets, 80 User-Definable and 19 Predefined
- ±0.25° Preset Accuracy
- Multilanguage Menus (English, Spanish, Portuguese, Italian, French, and German)
- Alternate Language Files (includes Russian, Polish, Turkish, and Czechoslovakian) Available as Optional Software Upload
- RJ-45 Data Port for Software Update and Setup
- On-Screen Compass, Tilt, and Zoom Display
- · Password Protection
- 250°/sec Pan Preset Speed and 200°/sec Tilt Preset Speed
- Rotating Discreet Liner with Sealed Fixed Bubble
- Eight Zones (programmable in size) Can Be Labeled with Up to 20 Characters Each or Set to Output Blank Video
- Programmable Locations of Labels and On-Screen Displays
- Patterns One on-screen, user-defined programmable pattern. Includes pan, tilt, zoom, and preset functions
- Proportional Pan and Tilt Continually decreases pan and tilt speeds in proportion to depth of zoom
- Variable Scan Speed Scan speed can be programmable between
- Pan Motion Allows 0.1-150°/sec Pan Speed
- Programmable Limit Stops for Auto/Random/Frame Scan Modes
- Auto-sensing Protocol (Coaxitron®, RS-422 P and D); Accepts Competitive Control Protocol with Optional Translator Card
- Digital Position and Zoom Control and Feedback Via D Protocol
- Built-in Menu System for Setup of Programmable Functions
- "Auto Flip" Rotates Dome 180° at Bottom of Tilt Travel
- · Programmable Zoom Speeds
- One Programmable Blank Window (DD53CBW18)
- Freeze Frame Between Presets (DD53CBW18)

#### **GENERAL**

Construction				
Back Box				

Surface Mount Plastic In-Ceilina Aluminum Pendant Aluminum

Aluminum, thermo plastic Dome Drive

Bubble Acrylic

Light Attenuation

Smoked 1/2 F-stop light loss Zero light loss Clear Chrome 2 F-stops light loss Gold 2 F-stops light loss

Cable Entry (Back Box) In-Ceiling and

Surface Mount 0.75-inch conduit fitting

Through 1.5-inch NPT pendant mount Pendant

Weight (approximate) Unit Shipping Back Box Surface Mount 0.7 lb (0.32 kg) 2 lb (0.90 kg) In-Ceiling 1.5 lb (0.68 kg) 2 lb (0.90 kg) Environmental In-Ceiling 2.1 lb (0.95 kg) 3 lb (1.36 kg) Standard Pendant 2.4 lb (1.09 kg) 4 lb (1.81 kg) Environmental Pendant 3.5 lb (1.59 kg) 5 lb (2.27 kg) Dome Drive 2.4 lb (1.09 kg) 4 lb (1.81 kg) Lower Dome Surface Mount 0.4 lb (0.18 kg) 1 lb (0.45 kg) 0.2 lb (0.09 kg) In-Ceilina 1 lb (0.45 kg) Pendant and Environmental In-Ceiling 0.6 lb (0.27 kg) 2 lb (0.90 kg)

Environment

Surface Mount Indoor In-Ceiling Indoor Environmental In-Ceiling Outdoor

Pendant, Standard and Environmental Indoor/outdoor

Operating Temperature Surface Mount and

32° to 122°F (0° to 50°C) Indoor In-Ceiling Standard Pendant (Assumes no wind chill factor)

Maximum 113°F (45°C) absolute maximum; 95°F (35°C)

sustained maximum 25°F (-4°C) sustained minimum

Minimum Environmental

In-Ceiling and

**Environmental Pendant** (Assumes no wind chill factor)

Maximum 140°F (60°C) absolute maximum: 122°F (50°C)

sustained maximum

-60°F (-51°C) absolute minimum; prevents Minimum

icing at sustained minimum of -50°F (-45°C); de-ices 0.1 inch (2.5 mm) within 3 hours after

power-up

Effective Projected

Area (EPA) 72 square inches (without mount)

118 square inches (with IWM Series mount)

# **TECHNICAL SPECIFICATIONS**

#### MECHANICAL (Dome Drive Only)

Pan Movement 360° continuous pan rotation Vertical Tilt Unobstructed +2° to -92° Manual Pan/Tilt Speeds

Pan 0.1°-80°/sec manual operation,

150°/sec Turbo

Tilt 0.1°-40°/sec manual operation

Preset Speeds

 Pan
 250°/sec

 Tilt
 200°/sec

For variable-speed operation an appropriate controller is required. (With non-variable speed control, Spectra III pan/tilt speed is

20°/sec)

#### **ELECTRICAL**

Input Voltage 18-30 VAC; 24 VAC nominal Input Power 25 VA nominal (without heater); 70 VA nominal (with heater)

Fuse 1.25 A

#### **CERTIFICATIONS/RATINGS/PATENTS**

- CE, Class B
- UL Listed
- UL Listed to Canadian safety standards
- Complies with Argentina compliance requirements under Res. 92/98
- FCC, Class B
- U.S. Patents 5,931,432; 6,793,415 B2; 6,802,656 B2; 6,821,222 B2

#### Meets the following standards:

- NEMA Type 4X, IP66 when installed properly (BB53T-F-E, BB53T-PB, BB53T-PG, and BB53T-PG-E)
- NEMA Type 1, IP40 (BB53T-SMW, BB53T-SMB and BB53T-F)

#### **CAMERA/OPTICS**

	Color (16X)	Day/Night (18X)		
Signal Format	NTSC (DD53TC16) Pal (DD53TC16-X)	NTSC (DD53CBW18) PAL (DD53CBW18-X)		
Scanning System	2:1 interlace	2:1 interlace		
Image Sensor Effective Pixels NTSC	1/4-inch interline transfer CCD 768 (H) X 494 (V)	1/4-inch CCD 724 (H) X 494 (V)		
PAL	752 (H) X 582 (V)	724 (H) X 582 (V)		
Horizontal Resolution NTSC PAL	>470 TV Lines >460 TV Lines	>470 TV Lines >470 TV Lines		
Lens	F1.4 (f = 4~64 mm optical) 16X optical zoom, 8X digital zoom	F1.6 (f = 3.8~68.4 mm optical) 18X optical zoom, 10X digital zoom		
Zoom Speed (optical range)	1.9/3.6/6.0 seconds	2.9/4.2/5.8 seconds		
Horizontal Angle of view Focus	43° at 4 mm wide zoom; 3° at 64 mm telephoto zoom Automatic with manual override	51° at 3.8 mm wide zoom; 3° at 68.4 mm telephoto zoom Automatic with manual override		
Maximum Sensitivity @35 IRE NTSC	0.05 lux at 1/2 sec 0.05 lux at 1/1.5 sec	0.08 lux at 1/2 sec (color) 0.3 lux at 1/60 sec shutter (B-W) 0.013 lux at 1/2 sec (B-W) 0.08 lux at 1/1.5 sec (color) 0.3 lux at 1/50 sec shutter (B-W) 0.013 lux at 1/1.5 sec (B-W)		
Sync System	AC line lock, phase adjustable via remote control, V-Sync	Internal/AC line lock, phase adjustable via remote control, V-Sync		
White Balance	Automatic with manual override	Automatic with manual override		
Shutter Speed NTSC PAL	Automatic (electronic iris)/Manual 1/2 ~1/30,000 1/1.5 ~1/30,000	Automatic (electronic iris)/Manual 1/2 ~1/30,000 1/1.5 ~1/30,000		
Iris Control	Automatic with manual override	Automatic with manual override		
Gain Control	Automatic with manual override	Automatic/OFF		
Video Output	1 Vp-p, 75 ohms	1 Vp-p, 75 ohms		
Video Signal to Noise	>50 dB	>50 dB		

## **TECHNICAL SPECIFICATIONS**

#### **OPTIONAL ACCESSORIES**

DD5-FM Fixed camera mount adapter. Interchangeable

with all Spectra III dome drives.

IPS-RMK Remote monitor kit. Stand-alone kit

consisting of a 5.6-inch TFT-LCD monitor, Palm™ OS compatible handheld, cables and carrying case. Allows viewing of camera video, local PTZ control, system setup, and system software upgrades at any installed

dome.

IPS-CABLE Remote monitor cable and software kit

list of compatible devices.

IPS-RDPE-2\* Remote data port. 24 VAC, wall/pole mount

video/data breakout box. Allows ground-level control/programming and Spectra III OS software upgrades when used with the

IPS-RMK or IPS-CABLE.

TXB Series\* Translator boards for AD Manchester,

Bosch (Philips, Burle), Sensormatic, Vicon,

and NTCIP protocols.

VC-UTP Converts video for use with unshielded

twisted pair (UTP); maximum distance to passive receiver 500 feet (152 m). Plugs into TXB connector in Spectra back box. Coaxitron-ready when used with passive receiver. Works with all major suppliers of UTP modules. Not for use in conjunction with

TXB boards.

FS85011\* Fiber transmitter sends one unidirectional

composite video channel and one bidirectional data channel over one

multimode or single-mode fiber optical cable.

<sup>\*</sup>If TXB or FS85011 boards are installed, it is not possible to upgrade system operating software through the remote data port (IPS-RDPE-2).



FS85011 FIBER MODULE

#### RECOMMENDED MOUNTS

**Surface Mount Domes** 

PASMB Pendant adapter for surface mount dome,

black

SD53SM-P 2' x 2' drop ceiling panel for BB53-SMW and

BB53T-SMW series back boxes. Replaces 2' x 2' ceiling tile. Aluminum construction.

**In-Ceiling Domes** 

SD5-P 2' x 2' drop ceiling panel, aluminum

construction. Replaces 2' x 2' ceiling tile.

SCA1 Support rails for BB53-F; for use in ceiling

tile applications.

**Pendant Domes** 

BB5-PCA-BK\*\*

Pendant conduit adapter, black

BB5-PCA-GY\*\*

Pendant conduit adapter, gray

IWM Series Wall mount, with or without integral 24 VAC,

100 VA transformer. Black or gray finish. Can be adapted for corner, parapet or pole

applications.

MRCA Ceiling mount, black
MRWA Wall mount, black
PP4348 Parapet roof mount
PP350/PP351 Parapet wall/roof mount

SWM Series Compact wall mount, black or gray finish.

Can be adapted for corner or pole

applications.



IPS-RMK REMOTE MONITOR KIT

<sup>\*\*</sup>Not suitable for use with heavy-duty, pressurized, or stainless steel Spectra domes.

# **SYSTEM MODELS AND RELATED PRODUCTS**

#### **SYSTEM MODEL NUMBERS**

Туре	Back Box Color	Lower Dome	16X Color*	18X Day/Night*
Surface Mount	White	Smoked	SD53TC-SMW-0	SD5318-SMW-0
		Clear	SD53TC-SMW-1	SD5318-SMW-1
		Chrome	SD53TC-SMW-2	SD5318-SMW-2
		Gold	SD53TC-SMW-3	SD5318-SMW-3
	Black	Smoked	SD53TC-SMB-0	SD5318-SMB-0
		Clear	SD53TC-SMB-1	SD5318-SMB-1
		Chrome	SD53TC-SMB-2	SD5318-SMB-2
		Gold	SD53TC-SMB-3	SD5318-SMB-3
In-Ceiling, Indoor	Black	Smoked	SD53TC-F0	SD5318-F0
		Clear	SD53TC-F1	SD5318-F1
		Chrome	SD53TC-F2	SD5318-F2
		Gold	SD53TC-F3	SD5318-F3
In-Ceiling, Environmental**	Black	Smoked	SD53TC-F-E0	SD5318-F-E0
		Clear	SD53TC-F-E1	SD5318-F-E1
Pendant, Standard	Black -	Smoked	SD53TC-PB-0	SD5318-PB-0
		Clear	SD53TC-PB-1	SD5318-PB-1
		Chrome	SD53TC-PB-2	SD5318-PB-2
		Gold	SD53TC-PB-3	SD5318-PB-3
	Lt. Gray	Smoked	SD53TC-PG-0	SD5318-PG-0
		Clear	SD53TC-PG-1	SD5318-PG-1
		Chrome	SD53TC-PG-2	SD5318-PG-2
		Gold	SD53TC-PG-3	SD5318-PG-3
Pendant, Environmental**	I the Company	Smoked	SD53TC-PG-E0	SD5318-PG-E0
	Lt. Gray	Clear	SD53TC-PG-E1	SD5318-PG-E1

<sup>\*</sup>For PAL models add "-X" suffix to part number. (Example: SD53TC16-PG-E0-X)

#### **COMPONENT MODEL NUMBERS**

	Back Box Dome Drive		Lower Dome***		
BB53T-SMB	Surface mount, black	DD53TC16	Color (NTSC) camera (16X)	LD53SMB-0	Smoked, surface, black
BB53T-SMW	Surface mount, white	DD53TC16-X	Color (PAL) camera (16X)	LD53SMB-1	Clear, surface, black
BB53T-F	In-ceiling, black	DD53CBW18	Day/night (NTSC) camera (18X)	LD53SMB-2	Chrome, surface, black
BB53T-F-E	In-ceiling, black, environmental	DD53CBW18-X	Day/night (PAL) camera (18X)	LD53SMB-3	Gold, surface, black
BB53T-PB	Pendant mount, black, standard	DD5-FM	Removable fixed mount bracket	LD53SMW-0	Smoked, surface, white
BB53T-PG	Pendant mount, gray, standard		only (camera and lens not included).	LD53SMW-1	Clear, surface, white
BB53T-PG-E	Pendant mount, gray, environmental	dome drives.	LD53SMW-2	Chrome, surface, white	
			LD53SMW-3	Gold, surface, white	
Notes: To order a fixed mount dome system refer to the component models above and select one each of the following: back box (BB53T-F), dome drive (DD5-FM), plus choice of lower dome (LD5F-0, LD5F-1, LD5F-2 or LD5F-3).		LD5F-0	Smoked, in-ceiling		
		LD5F-1	Clear, in-ceiling		
		LD5F-2	Chrome, in-ceiling		
		LD5F-3	Gold, in-ceiling		
For environmental applications, you must order an environmental back box (BB53-F-E) or (BB53-PG-E).		LD53PB-0	Smoked, pendant, black		
DD5-FM is ideal for use with Pelco's CCC1380/CCC1390/MCC1380 Series cameras with selected Pelco lenses.		LD53PB-1	Clear, pendant, black		
		LD53PB-2	Chrome, pendant, black****		
				LD53PB-3	Gold, pendant, black****

 $<sup>\</sup>hbox{\tt ****} Use the pendant lower domes with the environmental in-ceiling and environmental pendant back boxes.$ 

<sup>\*\*\*\*</sup>Not recommended for outdoor use due to possible light reflections.



<sup>\*\*</sup>Environmental dome systems include a heater, fan, and the environmental pendant also includes a sun shield.