zenitel

DATASHEET

2310111003

Spectra Dome P/T Camera IP-66

Description

- Two Autofocus, High Resolution Integrated LowLight ™ Color Camera/Optics Packages
- Zone Blanking
- Window Blanking
- Camera Title Overlay, 20 User-Definable Characters
- On-Screen Compass and Tilt Display
- Password Protection
- Freeze Frame During Presets
- Built-in Surge and Limited Lightning Protection
- Integrated Passive UTP Circuit
- Internal Scheduling Clock

Modularity

www.zenitel.com info@zenitel.com Last revision date: 2022-08-26 09:27

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Spectra ® IV was designed with ease of installation and ease of maintenance in mind. Each dome system consists of three components: a back box, a dome drive, and a lower dome. These three system components are interchangeable with other Spectra IV dome systems, making retrofitting and application adjustments simple. Also, dome drives and lower domes can be removed and replaced reducing maintenance time.

Back Box

Spectra IV back box options include the following models: environmental in-ceiling (ideal for outdoor soffits), indoor in-ceiling, indoor surface mount, standard and environmental pendant, heavy-duty, pressurized, and stainless steel. Each back box model features built-in back box memory to store camera and location-specific dome settings, including labels, presets, patterns, and zones. A passive UTPcircuit is located on the door assembly for convenient video transmission through twisted pair wire. For added flexibility, Pelco fiber modules can also be attached to the door assembly for transmission over single-mode or multimode fiber.

Dome Drive

The Spectra IV dome drive's integrated optics package incorporates many advanced features that allow the system to produce high quality video in the most difficult environments. The day/night camera features 18X optical zoom and 12X digital zoom. The color camera is equipped with 16X optical zoom and 8X digital zoom. Both cameras in Spectra IV dome drives feature LowLight ™ technology allowing the cameras to compensate for scenes where minimal light is present. The cameras also offer freeze frame between presets and window blanking.

Lower Dome

An important, but often overlooked, component of a high-speed dome system is the relationship between the dome bubble and the camera lens. Special consideration was taken when designing the Spectra IV lower dome bubble to ensure that an optimal optical relationship between the lens and achieved, providing crystal clear video at long focal lengths.

Dome Systems

Spectra IV dome systems feature many software enhancements that increase performance and make programming and operation easy. An internal scheduling clock allows for the scheduling of presets and patterns. Window blanking enables a user to program a four-sided, user-defined privacy area. Password protection prevents unauthorized users from changing the system settings. Programmable on-screen compass and tilt display provides positioning information when needed. Intuitive multilanguage on-screen programming can be displayed in English, Spanish, Portuguese, Italian, French, German, Russian, Polish, Turkish, and Czech.

Spectra IV's variable speed capabilities range from a smooth, fast pan motion of 400 degrees per second to a smooth "creep" speed of 0.1 degree per second. The system is capable of continuous 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 (IPS-RMK and IPS-CABLE) allow the installer to view video, control PTZ, and perform system setup and software upgrades at the installation site.

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Specifications

GENERAL		
Construction		
Back box		
Surface	Plastic	
In-Ceiling	Aluminum	
Pendant	Aluminum	
Dome Drive	Aluminum, thermo plastic	
Bubble	Acryl	
Light Attenuation		
Smoked	1/2 F-stop light loss	
Clear	Zero light loss	
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	
Pendant	Through 1.5-inch NPT pendant mount	
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)
Enviromental		
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)
Enviroment Pendant	3.5 lb (1.59 kg))	5 lb (2.27 kg)
Dome Drive	3.3 lb (1.48 kg)	5 lb (2.27 kg)
Lower Driver		
Surface Mount	0.4 lb (0.18 kg)	1 lb (0.45 kg)
In-Ceiling	0.2 lb (0.09 kg)	1 lb (0.45 kg)
Pendant and Enviromental		
In-Ceiling	0.6 lb(0.27 kg)	2 lb(0.90 kg)

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Environment	
Surface Mount	Indoor
In-Ceiling	Indoor
Enviromental In-Ceiling	Outdoor
Pendant, Standard and Enviromental	Indoor/ outdoor
Operating Tempeature	
Surface Mount and Indoor In-Ceiling	32º to 122 ºF (0º to 50ºC)
Standard Pendant	(Assumes no wind chill factor)
Maximum	113°F (45°C) absolute maximum;
	95°F (35°C) sustained maximum
Minimum	25°F (-4°C) sustained minimum
Enviromental In-Ceiling and Enviromental Pendant	(Assumes no wind chill factor)
Maximum	140°F (60°C) absolute maximum;
	122°F (50°C) sustained maximum
Minimum	-60°F (-51°C) absolute minimum; prevents 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)	20.5 square inches (without mount), 47 square inches (with IWM Series mount)

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MECHANICAL (DOME DRIVE ONLY)

Pan Movement	360º ccontinous pan rotation
Vertical Tilt	Unobstructed + 2º to -92º
Manual Pan/ Tilt Speeds	
Pan	0.1º-80º/sec manual operation, 150º/sec Turbo
Tilt	0.1º-40º/sec manual operation
Preset Speeds	
Pan	400º/sec
Tilt	200º/sec
	For variable-speed operation an appropriate controller is required. (With non-variable speed control, Spectra IV pan/tilt speed is

ELECTRICAL

Input voltage	18-32 VAC; 24 VAC nominal
	22-27 VDC; 24 VDC niminal
Input Power	
24 VAC	23 VA nominal (without heater);
	73 VA nominal (with heater)
24 VDC	0.7 A nominal (without heater);
	3 A nominal (with heater)
Fuse	1.25 A

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CERTIFICATIONS / RATINGS / PATENTS

General	
CE, Class B	
UL Listed	
UL Listed to Canadian safety standards	
Complies with Argentina compliance requirements under Res. 92/96	
FCC, class B	
U.S. Patents	5,931,432; 6,793,415 B2; 6,802,656 B2; 6,821,222 B2; 7,161,615 B2
Meets the following standards:	
NEMA Type 4X, IP66 when installed properly (BB4T-F-E, BB4T-PB, BB4T-PG, and BB4T-PG-E)	
NEMA Type 1, IP40 (BB4T-SMW, BB4T-SMB, and BB4T-F)	

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