Camclosure® IS Series Indoor Mini Dome

IS90 SERIES SURFACE MOUNT/IN-CEILING, WDR, DAY/NIGHT, HIGH RESOLUTION

Product Features

- · Fully-Integrated Indoor Enclosure with Camera and Lens
- Single Model for Surface Mount and Recessed Ceiling Applications with 4S Adapter Plate
- 4 Camera Options:
 - Day/Night Wide Dynamic Range (WDR): Pixel-Based Imager for Accurate Color Representation, Progressive Scan
 - Day/Night High Resolution: 540 TVL
 - Wide Dynamic Range (WDR): Pixel-Based Imager for Accurate Color Representation, Progressive Scan
 - High Resolution Color: 540 TVL
- Varifocal Lens Options: 3 mm to 9.5 mm, 9 mm to 22 mm
- Fixed Lens Options: 3 mm, 3.6 mm, 6 mm, 8 mm, 12 mm
- Includes Both Composite and Unshielded Twisted Pair (UTP) Outputs
- · All Models Include 1 Smoked Bubble, 1 Clear Bubble, and 1 Liner
- · Shipped Completely Assembled, Easy to Install
- 12 VDC or 24 VAC Operation, Autosensing
- Manual, 3-Axis (Pan/Tilt/Rotation) Positioning Allows Adjustment for Optimum Camera Rotation and Placement
- · Housing Available in White or Black
- Service Connector for Video Output



IS90 SERIES DOME SHOWN WITH OPTIONAL PENDANT WALL MOUNT (IS90-PW)

NOTE: REMOVE THE SURFACE MOUNT RING FOR RECESSED INSTALLATIONS.



IS90 SERIES DOME SHOWN WITH SURFACE MOUNT RING

Camera Modules

The IS90 Series Camclosure® Integrated Camera System offers a large selection of camera and lens options. Available camera modules include the following:

- Day/night wide dynamic range (WDR) and wide dynamic range: Pelco's WDR uses a pixel-based imager that adjusts for lighting by pixel. Traditional CCD cameras adjust the entire image for lighting conditions that appear in a small portion of the image or that are not extreme. Different lighting problems occur at night. Car headlights and parking lot lights are good examples of problematic video images. Use Pelco's Day/Night WDR where you need the camera to adjust from extreme lighting to low light conditions.
- Day/night high resolution (540 TVL) color camera with auto iris, varifocal lens; Application examples include environments that require monochrome images at night and color images during the day.
- High (540 TVL) resolution color camera with auto iris, varifocal lens or fixed iris lens; application examples include all generalpurpose environments.

Enclosure Modules

The IS90 Series Camclosure Integrated Camera System integrates a camera and lens package into a small, versatile indoor enclosure that can be mounted directly to, or recessed into, a ceiling or wall. The IS90 Series features a three-axis camera and lens positioning system that is capable of 360 degrees of tilt, and 360 degrees of rotation.

The **IS90 Series** is shipped completely assembled, making installation fast and easy. To surface-mount the unit, remove it from the box, attach it to the mounting surface, and connect video and power. For recessed installations, simply remove the surface mount ring (no tools required) and then install the unit inside a ceiling or wall. A 4S adapter plate is supplied with the unit for electrical box installations.

TECHNICAL SPECIFICATIONS

GENERAL

Pan/Tilt Adjustment Manual Pan 360°

Tilt 140° (20° to 160° range)

Rotation 360°

Construction Back Box and

Surface Mount Ring
Bubble

Finish

ABS plastic
Polycarbonate
White or black

Light Attenuation

Smoked f/1.5 light loss Clear Zero light loss Environment Indoor

Operating Temperature 32° to 120°F (0° to 49°C)
Unit Weight 0.52 lb (0.24 kg)
Shipping Weight 2 lb (0.91 kg)

ELECTRICAL

Input Voltage* 12 VDC or 24 VAC (±10%), autosensing

Synchronization Internal or AC line lock
Power Consumption <3 W (DW/CW models)
<4 W (DN/CH/C models)

VIDEO

Signal System NTSC or PAL

Video Output

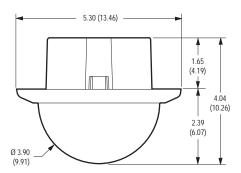
Composite 1 Vp-p, 75 ohms UTP 1 Vp-p, 100 ohms

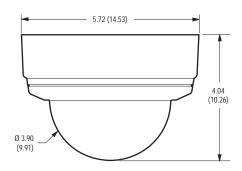
Video Connectors 1 composite BNC and 1 UTP

Service Connector 3-conductor, 2.5 mm connector for video output to optional IS-SC cable

CERTIFICATIONS/PATENTS

- CE, Class B
- FCC, Class B
- UL/cUL Listed
- C-Tick
- U.S. Patents D497,927 S; 6,715,939 B2; 6,805,498 B2





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

^{*24} VAC power is recommended when installing any Camclosure Integrated Camera System under fluorescent lighting conditions.

TECHNICAL SPECIFICATIONS

CAMERA SPECIFICATIONS

	Day/Night Wide Dynamic Range Varifocal, Auto Iris (DW Series)	Day/Night High Resolution Varifocal, Auto Iris (DN Series)	Wide Dynamic Range Varifocal, Auto Iris (CW Series)	High Resolution Varifocal, Auto Iris (CH Series)	
Imaging Device	1/3-inch Pixel Based Imager	1/3-inch Interline Color CCD	1/3-inch Pixel Based Imager	1/3-inch Interline Color CCD	
Picture Elements	720 (H) x 540 (V)	NTSC: 768 (H) x 494 (V) PAL: 752 (H) x 582 (V)	720 (H) x 540 (V)	NTSC: 768 (H) x 494 (V) PAL: 752 (H) x 582 (V)	
Dynamic Range (DW/CW only)	102 dB typical 120 dB maximum	_	102 dB typical 120 dB maximum	_	
Scanning System	2:1 Interlace/ Progressive (DIP switch)	2:1 Interlace	2:1 Interlace/ Progressive (DIP Switch)	2:1 Interlace	
Horizontal Resolution	NTSC: 504 TV lines PAL: 504 TV lines	NTSC: 540 TV lines PAL: 540 TV lines	NTSC: 504 TV lines PAL: 504 TV lines	NTSC: 540 TV lines PAL: 540 TV lines	
Signal-to-Noise Ratio	>53 dB	>50 dB	>53 dB	>50 dB	
Minimum Illumination	Color (day): 0.8 lux SENS 8X: 0.2 lux B-W (night): 0.08 lux SENS 8X: 0.02 lux (f/1.0, 40 IRE, AGC on, 75% scene reflectance, 3.0 ~ 9.5 mm lens)	Color (day): 0.15 lux B-W (night): 0.015 lux (f/1.0, 40 IRE, AGC on, 75% scene reflectance, 3.0 ~ 9.5 mm lens)	Color (day): 0.8 lux SENS 8X: 0.2 lux (f/1.0, 40 IRE, AGC on, 75% scene reflectance, 3.0 ~ 9.5 mm lens)	0.3 lux (f/1.0, 40 IRE, AGC on, 75% scene reflectance, 3.0 ~ 9.5 mm lens)	
Day/Night Operation Day	Infrared (IR) cut filter	Infrared (IR) cut filter and optical low pass filter	_	_	
Night	No filter	Optical low pass filter			
Filter Switch Threshold	Dusk 4 lux Dark 1 lux	0.15 lux		_	
Gain Control	Auto (36 dB maximum)	Auto/Manual (DIP switch)	Auto (36 dB maximum)	Auto/Manual (DIP switch)	
Exposure	Auto (1/15 ~ 1/22,000)	Auto (1/60 ~ 1/100,000)	Auto (1/15 ~ 1/22,000)	Auto (1/60 ~ 1/100,000)	
White Balance	Auto or manual (DIP switch), 2800°K to 7500°K	Auto or manual (DIP switch), 2500°K to 9500°K	Auto or manual (DIP switch), 2800°K to 7500°K	Auto or manual (DIP switch), 2500°K to 9500°K	
Backlight Compensation	Auto	ON/OFF (DIP switch)	Auto	ON/OFF (DIP switch)	

LENS SPECIFICATIONS

	Varifocal With Auto Iris				Fixed Focal Without Iris					
Series	DW/CV	/ Series	DN/CH	DN/CH Series		CH Series				
Focal Length	3.0 mm ~ 9.5 mm	9.0 mm ~ 22.0 mm	3.0 mm ~ 9.5 mm	9.0 mm ~ 22.0 mm	3 mm	3.6 mm	6.0 mm	8.0 mm	12.0 mm	
Format Size	1/3-inch	1/3-inch	1/3-inch	1/3-inch	1/3-inch	1/3-inch	1/3-inch	1/3-inch	1/3-inch	
F-Number (f)	1.0 to 1.7	1.5 to 3.0	1.0 to 1.7	1.5 to 3.0	2.0	2.0	2.0	2.0	2.2	
Operation Iris Focus Zoom	Auto Manual Manual	Auto Manual Manual	Auto Manual Manual	Auto Manual Manual	N/A Manual N/A	N/A Manual N/A	N/A Manual N/A	N/A Manual N/A	N/A Manual N/A	
Angle of View* Horizontal Diagonal Vertical	100.4° to 31.6° 131.6° to 39.6° 72.8° to 23.8°	32.4° to 13.6° 41.1° to 17.2° 23.8° to 10.2°	95.0° to 30.2° 123.6° to 37.6° 69.0° to 22.6°	30.6° to 13.0° 39.2° to 16.4° 22.6° to 9.8°	90.2° 120.0° 65.4°	72.9° 92.0° 54.1°	40.1° 53.0° 30.4°	31.5° 40.0° 23.7°	19.7° 28.0° 15.0°	

^{*}Focal length specifications presume a 10% horizontal and 4% vertical monitor overscan.

SYSTEM MODELS AND ACCESSORIES

MODEL NUMBERS

Dome Only

ICS-090HNU IS90 Series indoor dome (no camera/lens), white housing; includes 1 smoked bubble, 1 clear bubble, and 1 liner. ICS-090BHNU IS90 Series indoor dome (no camera/lens), black housing; includes 1 smoked bubble, 1 clear bubble, and 1 liner.

System Numbers

		White Finish		Black Finish		
Camera	Lens	NTSC	PAL	NTSC	PAL	
Day/Night WDR	3.0 ~ 9.5 mm with Auto Iris	IS90-DWV9		IS90B-DWV9		
	9.0 ~ 22.0 mm with Auto Iris	IS90-DWV22		IS90B-DWV22		
Day/Night	3.0 ~ 9.5 mm with Auto Iris	IS90-DNV9	IS90-DNV9X	IS90B-DNV9	IS90B-DNV9X	
	9.0 ~ 22.0 mm with Auto Iris	IS90-DNV22	IS90-DNV22X	IS90B-DNV22	IS90B-DNV22X	
WDR -	3.0 ~ 9.5 mm with Auto Iris	IS90-CWV9		IS90B-CWV9		
	9.0 ~ 22.0 mm with Auto Iris	IS90-CWV22		IS90B-CWV22		
Color	3.0 mm	IS90-CH3	IS90-CH3X	IS90B-CH3	IS90B-CH3X	
	3.6 mm	IS90-CH3.6	IS90-CH3.6X	IS90B-CH3.6	IS90B-CH3.6X	
	6.0 mm	IS90-CH6	IS90-CH6X	IS90B-CH6	IS90B-CH6X	
	8.0 mm	IS90-CH8	IS90-CH8X	IS90B-CH8	IS90B-CH8X	
	12.0 mm	IS90-CH12	IS90-CH12X	IS90B-CH12	IS90B-CH12X	
	3.0 ~ 9.5 mm with Auto Iris	IS90-CHV9	IS90-CHV9X	IS90B-CHV9	IS90B-CHV9X	
	9.0 ~ 22.0 mm with Auto Iris	IS90-CHV22	IS90-CHV22X	IS90B-CHV22	IS90B-CHV22X	

RECOMMENDED POWER SUPPLIES

TF2000 Power supply for one 24 VAC camera, 20 VA
MCS Series Multiple 24 VAC camera power supply, indoor

OPTIONAL ACCESSORIES

IS-SC 4-foot service/monitor cable; compatible with

any standard monitor BNC connector

IS90-P White pendant mount adapter IS90B-P Black pendant mount adapter IS90-PW White pendant wall mount IS90B-PW Black pendant wall mount