Camclosure® IS Series Rugged Mini Dome

IS110 SERIES SURFACE MOUNT, WDR, DAY/NIGHT, HIGH RESOLUTION

Product Features

- · Fully-Integrated Enclosure with Camera and Lens
- Rugged, High-Impact, Vandal-Resistant, Puncture-Proof Domes; Tamper-Resistant Hardware
- 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: 3.0~9.5 mm, 9.0~22.0 mm
- Includes Both Composite and Unshielded Twisted Pair (UTP) Outputs
- 12 VDC or 24 VAC Operation, Autosensing
- Available with Smoked or Clear Bubble
- · Service Connector for Video Output



IS110 SERIES DOME WITH ICS110-PG PENDANT ADAPTER AND SWM-GY MOUNT

Camera Modules

The IS110 Series Camclosure® Integrated Camera System offers a large selection of camera and lens options. Available camera modules include:

- 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 lighting conditions 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 resolution (540 TVL) color camera with auto iris, varifocal lens: Application examples include all general-purpose environments.

Enclosure Module

The IS110 Series Camclosure Integrated Camera System combines an environmental cover, back box, camera, lens, and lower dome into a small, high-security system that is quick and easy to install. The system is perfect for a variety of indoor and outdoor applications and its versatile design allows for multiple mounting options.

The **IS110 Series** can be installed directly into a ceiling or wall, or to a 1.5-inch (3.81 mm) NPT fitting with the optional pendant mount adapter (ICS110-PG). The unit can also mount directly to a 4S electrical box using the optional adapter plate (ICS110-AP) or a standard plaster ring.

The system's back box has three conduit openings: two in the base, and a threaded 0.75-inch (1.91 cm) opening in the side. The environmental cover can be used to hide and protect the side conduit opening if it is not used.

TECHNICAL SPECIFICATIONS

GENERAL

Construction Aluminum with steel camera mounting

bracket and polycarbonate dome

Impact IS110 is a rugged product that exceeds an IK10++ rating of Standard EN62262 and can

withstand up to 100J in a vertical impact

Finish Light gray polyester powder coat

Light Attenuation

Smoked f/1.5 light loss
Clear Zero light loss
Unit Weight 2.20 lb (1.00 kg)
Shipping Weight 4.0 lb (1.81 kg)

ELECTRICAL

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

Synchronization Internal or AC line lock

Power Consumption

Camera <3 W (DW/CW models) <4 W (DN/CH models)

Heaters 10 W when active; thermostatically controlled

MECHANICAL

Cable Entry One 0.75-inch (1.91 cm) NPT threaded

opening on side; two 0.75-inch (1.91 cm)

openings on base

Pan/Tilt Adjustment Manual

²an 360°

Tilt 80° (20° to 100° range)

Rotation 360°

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

ENVIRONMENTAL

Environment Low temperature, indoor/outdoor Operating Temperature -50° to 122°F (-46° to 50°C);

de-ices to 25°F (-4°C)

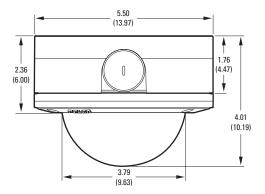
Thermostat Operation Heater is thermostatically controlled to

activate at 50°F (10°C) and turn off at

80°F (27°C)

CERTIFICATIONS/RATINGS/PATENTS

- CE, Class B
- FCC, Class B
- UL/cUL Listed
- C-Tick
- GOST
- Meets NEMA Type 4X and IP66 standards
- IEC 60068-2-27 Shock Certified
- IEC 60068-2-30 Humidity Certified
- IEC 60068-2-6 Vibration Certified
- ISTA Shipping Standard
- U.S. Patents D476,025; 6,715,939 B2; 6,805,498 B2



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

 $^{^*24\,\}text{VAC}$ 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	Color (day): 0.15 lux B-W (night): 0.015 lux	Color (day): 0.8 lux SENS 8X: 0.2 lux	0.3 lux
munination	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)	(f/1.0, 40 IRE, AGC on, 75% scene reflectance, 3.0~9.5 mm lens)	(f/1.0, 40 IRE, AGC on, 75% scene reflectance, 3.0~9.5 mm lens)
	(f/1.0, 40 IRE, AGC on, 75% scene reflectance, 3.0~9.5 mm lens)	ieis)	lella)	
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° to 7500°K	Auto or manual (DIP switch), 2500° to 9500°K	Auto or manual (DIP switch), 2800° to 7500°K	Auto or manual (DIP switch), 2500° to 9500°K
Backlight Compensation	Auto	ON/OFF (DIP switch)	Auto	ON/OFF (DIP switch)

LENS SPECIFICATIONS

	Varifocal with Auto Iris				
Series	DW/CW Series		DN/CH Series		
Focal Length	3.0~9.5 mm	9.0~22.0 mm	3.0~9.5 mm	9.0~22.0 mm	
Format Size	1/3-inch	1/3-inch	1/3-inch	1/3-inch	
F-Number (f)	1.0~1.7	1.5~3.0	1.0~1.7	1.5~3.0	
Operation Iris Focus Zoom	Auto Manual Manual	Auto Manual Manual	Auto Manual Manual	Auto Manual Manual	
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° 41.4° 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°	

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

SYSTEM MODELS AND ACCESSORIES

MODEL NUMBERS

Dome Only

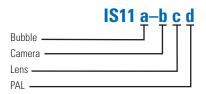
IS110-ENC IS110 Series surface mount enclosure (no camera/lens)

IS110-LD IS110 Series smoked bubble IS111-LD IS110 Series clear bubble with liner

When ordering an IS110 Series surface mount dome with no camera or lens, please order one enclosure and one bubble.

System Numbers

Use this table to create a model number to specify your IS110 Series Camclosure. Note the additional information in the table below for NTSC/PAL options. For example, IS111-DNV9X is the model number for a PAL version color day/night high resolution camera with a clear bubble and a 3.0~9.5 mm varifocal lens. For information, contact your Pelco sales representative.



Bubble (a)	Camera (b)	Lens (c)	PAL (d)
0 Smoked	DW Color Day/Night	V9 Varifocal, 3.0~9.5 mm, Auto Iris	DN and CH cameras only:
1 Clear with black liner	Wide Dynamic Range	V22 Varifocal, 9.0~22.0 mm, Auto Iris	X PAL
	DN Color Day/Night High Resolution		Do not use for NTSC
	CW Color Wide Dynamic Range		
	CH Color High Resolution		

RECOMMENDED POWER SUPPLIES

TF2000 Power supply for one 24 VAC camera, 20 VA
MCS Series Multiple 24 VAC camera power supply, indoor
MCS*E Series Multiple 24 VAC camera power supply, indoor
WCS Series Single/multiple 24 VAC camera power supply, outdoor

OPTIONAL ACCESSORIES

ICS110-AP Adapter plate for a 4-square electrical box ICS110-PG Pendant mount adapter ICS110-BV Breather vent to prevent condensation from forming inside the unit SWM Series Compact wall mount with cable feedthrough. Requires ICS110-PG adapter.

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

any standard monitor BNC connector