# **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



#### **Camera Modules**

The **IS110 Series Camclosure**<sup>®</sup> **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.





by Schneider Electric

# **TECHNICAL SPECIFICATIONS**

### **GENERAL**

Construction

Impact

Finish Light Attenuation Smoked Clear Unit Weight Shipping Weight

### **ELECTRICAL**

Input Voltage\* Synchronization **Power Consumption** Camera

Heaters

#### **MECHANICAL**

Cable Entry

Pan/Tilt Adjustment Pan Tilt Rotation

#### **VIDEO**

Signal System Video Output Composite UTP Video Connectors Service Connector

Aluminum with steel camera mounting bracket and polycarbonate dome IS110 is a rugged product that exceeds an IK10++ rating of Standard EN62262 and can withstand up to 100J in a vertical impact Light gray polyester powder coat

f/1.5 light loss Zero light loss 2.20 lb (1.00 kg) 4.0 lb (1.81 kg)

12 VDC or 24 VAC (±10%), autosensing Internal or AC line lock

<3 W (DW/CW models) <4 W (DN/CH models) 10 W when active; thermostatically controlled

One 0.75-inch (1.91 cm) NPT threaded opening on side; two 0.75-inch (1.91 cm) openings on base Manual 360° 80° (20° to 100° range) 360°

NTSC or PAL

1 Vp-p, 75 ohms 1 Vp-p, 100 ohms 1 composite BNC and 1 UTP 3-conductor, 2.5 mm connector for video output to optional IS-SC cable

### **ENVIRONMENTAL**

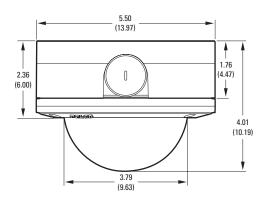
Environment **Operating Temperature** 

Thermostat Operation

Low temperature, indoor/outdoor -50° to 122°F (-46° to 50°C); de-ices to 25°F (-4°C) 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
- 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 VAC power is recommended when installing any Camclosure Integrated Camera System under fluorescent lighting conditions.

# **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
	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)			
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	Auto	Auto	Auto	Auto	
Focus	Manual	Manual	Manual	Manual	
Zoom	Manual	Manual	Manual	Manual	
Angle of View*					
Horizontal	100.4° to 31.6°	32.4° to 13.6°	95.0° to 30.2°	30.6° to 13.0°	
Diagonal	131.6° to 39.6°	41.4° to 17.2°	123.6° to 37.6°	39.2° to 16.4°	
Vertical	72.8° to 23.8°	23.8° to 10.2°	69.0° to 22.6°	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**

		Smoked Bubble		Clear Bubble	
Camera	Lens/Iris	NTSC	PAL	NTSC	PAL
Dov/Night W/DP	3.0 ~ 9.5 mm with Auto Iris	IS110-	-DWV9	IS111-	DWV9
Day/Night WDR	9.0 ~ 22.0 mm with Auto Iris	IS110-	DWV22	IS111-	DWV22
Day/Night	3.0 ~ 9.5 mm with Auto Iris	IS110-DNV9	IS110-DNV9X	IS111-DNV9	IS111-DNV9X
Day/Night	9.0 ~ 22.0 mm with Auto Iris	IS110-DNV22	IS110-DNV22X	IS111-DNV22	IS111-DNV22X
WDR	3.0 ~ 9.5 mm with Auto Iris	IS110-	-CWV9	IS111-	CWV9
VVDn	9.0 ~ 22.0 mm with Auto Iris	IS110-	CWV22	IS111-	CWV22
High Resolution,	3.0 ~ 9.5 mm with Auto Iris	IS110-CHV9	IS110-CHV9X	IS111-CHV9	IS111-CHV9X
Color	9.0 ~ 22.0 mm with Auto Iris	IS110-CHV22	IS110-CHV22X	IS111-CHV22	IS111-CHV22X

# **RECOMMENDED POWER SUPPLIES**

TF2000	Power supply for one 24 VAC camera, 20 VA
MCS 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