

# FD1 Series Entry-Level Indoor Fixed Dome

## 1/3-INCH CCD, 540 TVL WITH HIGH SENSITIVITY, IR OPTION

### Product Features

- 540 TV Lines
- 0.2 Lux Sensitivity (No IR), Zero Lux (with IR)
- Sony® 1/3-Inch Super HAD CCD II™ 760H
- NextChip Digital Signal Processor (DSP)
- 2 Camera Options:
  - IR Illumination Day/Night Indoor Dome
  - Color Indoor Dome
- Diversified Fixed or Varifocal Lens (Based on Model)
- Shipped Completely Assembled, Easy to Install
- 12 VDC Power with Internal Synchronization



FD1-F SERIES



FD1-IRV SERIES

The **FD1-F Series** is Pelco's entry-level indoor fixed dome camera. It integrates a camera and lens package into a small, versatile indoor enclosure that can be mounted directly to a ceiling and positioned using a 2-axis gimbal.

The **FD1-IRF/FD1-IRV Series** integrates fixed and varifocal lenses with supplemental IR lighting. This camera can be mounted to a ceiling or wall and positioned using a 3-axis gimbal.

The **FD1 Series** offers two camera options suitable for a variety of indoor environments:

- **IR Illumination Day/Night Indoor Dome:** Features a 540 TVL color camera with fixed or varifocal lens and electronic day/night functions. This camera uses a group of IR LEDs as supplemental lighting, creating an effective IR illumination distance of 15 to 20 meters. This camera is suitable for environments with low-light conditions that need a supplemental IR light source.
- **Color Indoor Dome:** Features a 540 TVL color camera with a fixed lens. This camera is suitable for general applications in general fixed lighting conditions.

The **FD1 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.



by Schneider Electric

International Standards  
Organization Registered Firm;  
ISO 9001 Quality System



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# TECHNICAL SPECIFICATIONS

## CAMERA/OPTICS

	<b>FD1-F Series Fixed Lens Models</b>	<b>FD1-IRF Series IR Illumination Fixed Lens Models</b>	<b>FD1-IRV Series IR Illumination Varifocal Lens Models</b>
Image Sensor	Sony 1/3-Inch Super HAD CCD II™ 760H	Sony 1/3-Inch Super HAD CCD II 760H	Sony 1/3-Inch Super HAD CCD II 760H
Signal Processing	NextChip DSP	NextChip DSP	NextChip DSP
Effective Pixels NTSC PAL	768 (H) x 494 (V) 752 (H) x 582 (V)	768 (H) x 494 (V) 752 (H) x 582 (V)	768 (H) x 494 (V) 752 (H) x 582 (V)
Scanning Area	5.59 (H) mm x 4.68 (V) mm (0.22 x 0.18 inch)	5.59 (H) mm x 4.68 (V) mm (0.22 x 0.18 inch)	5.59 (H) mm x 4.68 (V) mm (0.22 x 0.18 inch)
Scanning System NTSC PAL	525 lines, 2:1 interlace 625 lines, 2:1 interlace	525 lines, 2:1 interlace 625 lines, 2:1 interlace	525 lines, 2:1 interlace 625 lines, 2:1 interlace
Scanning Frequency NTSC PAL	Horizontal, 15.734 kHz Vertical, 59.94 Hz Horizontal, 15.625 kHz Vertical, 50.00 Hz	Horizontal, 15.734 kHz Vertical, 59.94 Hz Horizontal, 15.625 kHz Vertical, 50.00 Hz	Horizontal, 15.734 kHz Vertical, 59.94 Hz Horizontal, 15.625 kHz Vertical, 50.00 Hz
Synchronization	Internal	Internal	Internal
Horizontal Resolution	540 TVL	540 TVL	540 TVL
Minimum Illumination	f/2.0; 2,850°K; 30 IRE Color 0.2 lux	f/2.0; 2,850°K; 30 IRE Color 0.2 lux Mono (with IR) 0.0 lux	f/1.2; 2,850°K; 30 IRE Color 0.13 lux Mono (with IR) 0.0 lux
IR Cut Filter	Fixed	Dual band OLPF	Dual band OLPF
IR Illumination Distance	—	15 m	20 m
IR Sensitivity	—	>40% at 850 nm, peak response	>40% at 850 nm, peak response
Low-Light Technology	—	LEDs	LEDs
Electronic Shutter Range NTSC PAL	Auto 1/60 ~ 1/10,000 sec Auto 1/50 ~ 1/10,000 sec	Auto 1/60 ~ 1/10,000 sec Auto 1/50 ~ 1/10,000 sec	Auto 1/60 ~ 1/10,000 sec Auto 1/50 ~ 1/10,000 sec
Video Output	1.0 Vp-p, NTSC/PAL composite, 75 ohms, BNC connector	1.0 Vp-p, NTSC/PAL composite, 75 ohms, BNC connector	1.0 Vp-p, NTSC/PAL composite, 75 ohms, BNC connector
White Balance	Auto	Auto	Auto
Signal-to-Noise Ratio	48 dB	48 dB	48 dB
Lens	Fixed	Fixed	Varifocal
F-Number	f/2.0	f/2.0	f/1.2
Focal Length	3.6 mm	3.6 mm	3.0 to 9.0 mm, DC AI
Focus Range	∞ to 1.2 m (3.9 ft)	∞ to 1.2 m (3.9 ft)	∞ to 0.5 m (1.6 ft)
Horizontal Angle of View	72° at 3.6 mm	72°	85.3° at 3.0 mm wide zoom; 31.5° at 9.0 mm telephoto zoom
Vertical Angle of View	52° at 3.6 mm	52°	63.8° at 3.0 mm wide zoom; 23.7° at 9.0 mm telephoto zoom
Adjusting Angle Panning Range Tilting Range Rotation Range	±180° +80° to 0° 0°	±180° +55° to 0° ±180°	±180° +55° to 0° ±180°
Noise Reduction	2D	2D	2D

# TECHNICAL SPECIFICATIONS

## GENERAL

Back Box Construction	ABS plastic	
Bubble Type	Lightly obscured	
Weight	Unit	Shipping
FD1-F Series	0.12 kg (0.26 lb)	0.22 kg (0.49 lb)
FD1-IRF Series	0.25 kg (0.55 lb)	0.55 kg (1.21 lb)
FD1-IRV Series	0.26 kg (0.57 lb)	0.56 kg (1.23 lb)

## ELECTRICAL

Power Requirement	
NTSC	12 VDC +10% to -15%, 60 Hz
PAL	12 VDC +10% to -15%, 50 Hz
Power Consumption	
FD1-F Series	1 W
FD1-IRF/FD1-IRV Series	2.7 W
Power Connector	2-pin terminal block with screw terminal
Video Connector	BNC

## ENVIRONMENTAL

Operating Temperature	-10° to 50°C (14° to 122°F)
Storage Temperature	-20° to 60°C (-40° to 140°F)
Operating Humidity	20% to 80%, noncondensing
Storage Humidity	20% to 90%, noncondensing

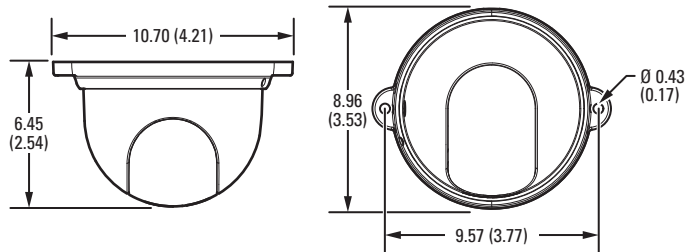
## CERTIFICATIONS

- CE, Class B
- FCC, Class B
- UL/cUL Listed

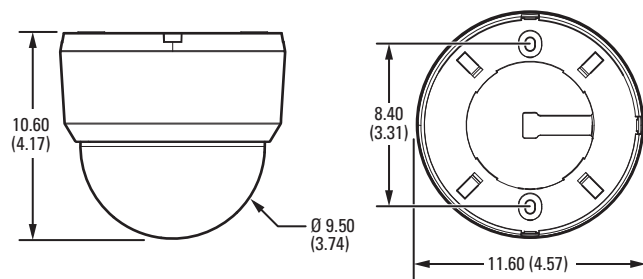


NOTE: VALUES IN PARENTHESES ARE INCHES;  
ALL OTHERS ARE CENTIMETERS.

### FD1-F SERIES



### FD1-IRF/FD1-IRV SERIES



# TECHNICAL SPECIFICATIONS

## MODELS

Camera Type	Lens Type	NTSC	PAL
Color	Fixed, 3.6 mm	FD1-F4-4	FD1-F4-4X
IR Illumination	Fixed, 3.6 mm	FD1-IRF4-4	FD1-IRF4-4X
IR Illumination	Varifocal, 3.0 to 9.0 mm	FD1-IRV9-4	FD1-IRV9-4X

## OPTIONAL ACCESSORIES

TW4001PC                      Passive twisted wire transmission for use in unshielded twisted pair (UTP) installations