

CCC1390H Series Day/Night, WDR, CCD Compact Camera

1/3-INCH, HIGH RESOLUTION, 530 TVL B-W/480 TVL COLOR (NTSC/PAL)

Product Features

- Compact Body Style
- Wide Dynamic Range (60 dB Maximum)
- Day/Night with Automatic or Manual Control
- Electronic PTZ
- 1/3-Inch Format Sony® SS-2WD CCD Imager
- Digital Signal Processing
- 530 TV Lines (B-W); 480 TV Lines (Color)
- On-Screen Menu Configuration
- Four Preset Application Profiles; One User-Definable Profile
- Auto White Balance, Automatic Gain Control, Electronic Shutter Control, and Backlight Compensation
- Flickerless Mode
- Autosensing DC-Drive Auto Iris
- Autosensing 24 VAC/12 VDC with Line Lock or Internal Synchronization
- Compatible with Pelco P and Pelco D Protocol



(LENS NOT SUPPLIED WITH CAMERA)

CCC1390H-6/6X

The **CCC1390 Series** camera is a compact, wide dynamic range (WDR), day/night camera. Its WDR technology provides up to 60 dB of dynamic range and produces superior images over a wide range of lighting conditions, including extreme backlight conditions. The camera also uses a removable infrared (IR) cut filter to switch between color and black-white (B-W) modes as environmental lighting conditions change. It also provides a dual resolution of 530 TVL (B-W) and 480 TVL (color).

On-screen programmable menus can be accessed locally using the rear panel button or remotely using any Pelco controller with Pelco P or Pelco D protocol. Use these menus to select a specific profile or to customize and save camera settings for the specific application.

The **CCC1390 Series** camera has a standard CS-mount and can be used with fixed, manual, or DC-drive auto iris lenses. The auto iris is controlled through a standard four-pin square connector that is included with all Pelco auto iris lenses.

The **CCC1390 Series** camera is quick and easy to install and its compact size makes it ideal for Pelco's DomePak® and ImagePak® fixed camera dome/enclosure packages.



CCC1390H-6/6X



EH3512/EH3515 Series Enclosure

OUTDOOR, SMALL

Product Features

- Low Cost
- Small, Contemporary Design
- Die-Cast and Extruded Aluminum Construction
- Forward-Opening Hinged Lid
- Rear Link-Lock Latch
- Cable Entry Glands and Mounting Holes on Bottom of Enclosure
- Designed for Indoor/Outdoor Applications
- Easy Access for Servicing and Installation
- Models Available with Factory-Installed Low Power Heater, Blower and Defroster, or with Heater and Defroster



EH3512 ENCLOSURE WITH SUN SHROUD AND EM3512 MOUNT

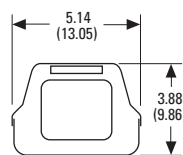
The **EH3512/EH3515 Series** are indoor/outdoor, low cost camera enclosures constructed from die cast and extruded aluminum. The **EH3512** has a lower body length of 12.75 inches (32.38 cm) and the **EH3515** has a lower body length of 15.75 inches (40.00 cm).

These enclosures are for use with cameras having fixed focal length lenses or motorized zoom lenses (with or without auto iris operation).

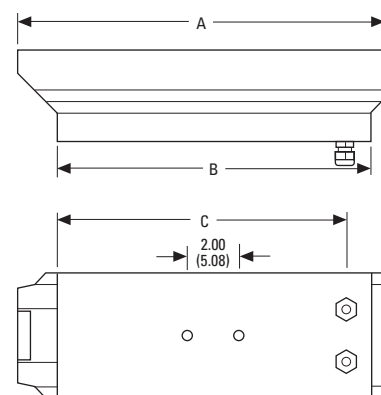
The front hinged lid provides easy access to the removable camera sled. Two adjustable (PG13.5) glands on the bottom of the enclosure allow for easy installation of the power and video cables. The rear link-lock latch can be used with a padlock of suitable size to secure the enclosure.

Field-installed options include heater-defroster, blower, and sun shroud. The enclosures can also be factory-ordered with a low power 24V, 120V, or 230V heater-defroster and blower or heater-defroster only.

The **EH3512** and **EH3515** are ideal for small-to-medium cameras and can be mounted to either our PT270/PT280 Series (indoor) or PT570/PT680 Series (outdoor) pan/tilts, or any compatible mount.



	EH3512	EH3515
A	14.75 (37.47)	17.75 (45.09)
B	12.75 (32.38)	15.75 (40.00)
C	11.25 (28.57)	14.25 (36.20)



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



C478 / REVISED 5-19-08

IP66



U.S. Patent #307,915

International Standards Organization Registered Firm; ISO 9001 Quality System



TECHNICAL SPECIFICATIONS

MODELS

Model Number	Basic Enclosure	120 VAC	24 VAC	230 VAC	Heater	Defroster	Blower	Max. Power Consumption*
EH3512	•							
EH3512-1		•			•	•	•	25 W
EH3512-2			•		•	•	•	20 W
EH3512-3				•	•	•	•	43 W
EH3512-1HD		•			•	•		25 W
EH3512-2HD			•		•	•		20 W
EH3512-3HD				•	•	•		43 W
EH3515	•							
EH3515-1		•			•	•	•	25 W
EH3515-2			•		•	•	•	20 W
EH3515-3				•	•	•	•	43 W
EH3515-1HD		•			•	•		25 W
EH3515-2HD			•		•	•		20 W
EH3515-3HD				•	•	•		43 W

*Maximum power consumption does not include camera wattage.

MECHANICAL

Camera Mounting	Multiple holes on adjustable camera sled; camera sled can be inverted for additional camera elevation
Maximum Camera Size	Accepts camera and lens combinations* (including BNC connector) up to 2.87" W x 3.00" H (7.28 x 762 cm) and the following length:
EH3512	10.25" (26.03 cm)
EH3512-1/-2/-3	9.00" (22.86 cm)
EH3512-1HD/-2HD/-3HD	10.00" (25.40 cm)
EH3515	13.25" (33.66 cm)
EH3515-1/-2/-3	12.00" (30.48 cm)
EH3515-1HD/-2HD/-3HD	13.00" (33.02 cm)
Viewing Window	0.187-inch (4.76 mm) thick, Lexan®
Viewing Window Area	
EH3512/EH3515	2.25" H x 2.63" W (5.71 x 6.68 cm)
All Other Models	2-inch (5.08 cm) diameter circle
Cable Entry	Two PG13.5 compression glands on bottom; 0.47-inch (1.19 cm) maximum cable diameter
Cable Entry Holes	0.875-inch (2.22 cm) diameter; will accept 0.5-inch (1.27 cm) conduit fitting when compression gland is removed
Latch	Link-lock No. 3, stainless steel; can be secured with padlock (not supplied)

*Assumes lens is fully extended.

GENERAL

Construction	Extruded and die-cast aluminum
Finish	Gray polyester powder coat
Environment	Indoor/outdoor -10° to 120°F (-23° to 49°C)

Unit Weight	Basic Model	All Others
EH3512	3.49 lb (1.58 kg)	3.85 lb (1.75 kg)
EH3515	4.10 lb (1.86 kg)	4.47 lb (2.03 kg)
Shipping Weight	Basic Model	All Others
EH3512	5 lb (2.26 kg)	5 lb (2.26 kg)
EH3515	5 lb (2.36 kg)	6 lb (2.72 kg)

CERTIFICATIONS/RATINGS/PATENTS

- CE compliant
- UL/cUL Listed
- Meets NEMA Type 4 standards
- Meets IP66 standards
- U.S. Patent 307,915

OPTIONAL ACCESSORIES

Blower Kit	BK3512-1	For EH3512/EH3515; continuous duty, 120 VAC, 4 W, 10 cfm at 60 Hz
	BK3512-2	For EH3512/EH3515; continuous duty, 24 VDC (AC rectified), 2 W, 19 cfm at 50/60 Hz
	BK3512-3	For EH3512/EH3515; continuous duty, 230 VAC, 9 W, 8 cfm at 50 Hz
Heater-Defroster	HD35-1**	For EH3512 only; 120 VAC, 25 W
	HD35-2**	Same as HD35-1 except 24 VAC, 20 W
	HD35-3**	Same as HD35-1 except 230 VAC, 43 W
	HD3515-1**	For EH3515 only; 120 VAC, 25 W
	HD3515-2**	Same as HD3515-1 except 24 VAC, 20 W
	HD3515-3**	Same as HD3515-1 except 230 VAC, 43 W
Sun Shroud	SS3512	For EH3512 Series enclosure
	SS3515	For EH3515 Series enclosure

**Thermostatically controlled heater activates on at 50°F (10°C); off at 80°F (27°C). Defroster operates continuously.

RECOMMENDED MOUNTS

Pedestal	EM1009U,	Medium duty pedestal mount; maximum load 40 lb (18.14 kg)
	EM1015U	Medium duty pedestal mount; maximum load 40 lb (18.14 kg)
	MM22	Medium duty pedestal mount; maximum load 40 lb (18.14 kg)
Wall	EM1450	Light duty wall mount; maximum load 20 lb (9.07 kg)
	EM2400	Light duty wall mount; maximum load 20 lb (9.07 kg)
	EM3512	Wall mount with feedthrough for EH3512, EH3512-2, and EH3512-2HD enclosures only
	EM1900U	Medium duty wall mount; maximum load 40 lb (18.14 kg)
	EM22	Medium duty wall mount; maximum load 40 lb (18.14 kg)
Pipe/Pole	EM1109,	Medium duty mounts for pipe/pole applications; maximum load 40 lb (18.14 kg). Fit poles with 3-inch (7.62 cm) to 8-inch (20.32 cm) diameters.
	EM2000,	
	EM2200	

RECOMMENDED PAN AND TILTS

PT270-24P	Light duty, indoor pan/tilt
PT280-24P	Light duty, indoor pan/tilt with prewired feedthrough
PT570 Series	Medium duty, indoor/outdoor pan/tilt
PS20 Series	Medium duty, indoor/outdoor scanner



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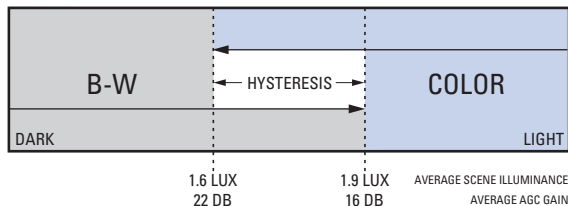
TECHNICAL SPECIFICATIONS

MODELS

CCC1390H-6	1/3-inch high resolution day/night, WDR, CCD camera; 24 VAC or 12 VDC; NTSC format
CCC1390H-6X	1/3-inch high resolution day/night, WDR, CCD camera; 24 VAC or 12 VDC; PAL format

GENERAL

Day/Night Operation	Infrared (IR) cut filter
Day	BK-7 glass, same optical displacement as day
Night	1/3-inch image format Sony SS-2WD CCD
Imaging Device	60 dB maximum (WDR mode)
Dynamic Range	
Picture Elements	
NTSC	768 (H) x 494 (V) (approx. 380K)
PAL	752 (H) x 582 (V) (approx. 440K)
Sensing Area	6 mm diagonal
Scanning System	525 (NTSC)/625 (PAL), 2:1 interlace
Synchronization	AC line lock/internal
Horizontal Resolution	530 TV lines (B-W); 480 TV lines (color)
Electronic Shutter Range	
NTSC	1/60-1/50,000 second
PAL	1/50-1/50,000 second
Auto Iris Lens Type	DC-drive (autosensing)
Minimum Illumination	
B-W (SENS 40x)	0.002 lux, F1.2, 40 IRE, AGC on, 75% scene reflectance
Color (SENS 40x)	0.02 lux, F1.2, 40 IRE, AGC on, 75% scene reflectance
B-W	0.08 lux, F1.2, 40 IRE, AGC on, 75% scene reflectance
Color	0.8 lux, F1.2, 40 IRE, AGC on, 75% scene reflectance
Filter Switching Threshold	
Day to Night	1.6 lux, average scene illumination
Night to Day	1.9 lux, average scene illumination



Digital Slow Shutter (SENS)	Selectable: on/off; 2x, 4x, 6x, 8x, 10x, 20x, 40x
Electronic PTZ	Selectable: 1.5x, 2.0x, 2.5x
Signal-to-Noise Ratio	>50 dB
Vertical Phase	Adjustable $\pm 90^\circ$
Automatic Gain Control	Selectable: on/off
Backlight Compensation	Selectable: on/off; 1/100 sec (NTSC), 1/120 sec (PAL)
Flickerless Mode	Selectable: on/off, 4 modes
Auto White Balance	Selectable: on/off, 4 modes
Day/Night	Digital signal processing (DSP)
Signal Processing	1 Vp-p, 75 ohms
Video Output	Selectable: on/off, 0.45, 0.6, 1.0
Gamma Correction	2,500° to 8,600°K
White Balance Range	

NOTE: For outdoor camera installations, a Pelco enclosure is recommended.

ELECTRICAL

Power Requirements	24 VAC $\pm 15\%$ /12 VDC $\pm 15\%$, 60 Hz
CCC1390H-6	24 VAC $\pm 15\%$ /12 VDC $\pm 15\%$, 50 Hz
CCC1390H-6X	3.5 W
Power Consumption	3-pin terminal strip, push-in type
Power Connector	BNC
Video Connector	4-pin connector (miniature square)
Auto Iris Connector	4 LED
Mode Indicators	5-position button
Controls	Serial data termination switch
Control Connector	7-pin micro (1.25 mm) connector
	Data I/O (Pelco P or Pelco D protocol)
	External day/night filter control

MECHANICAL

Lens Mount	CS mount
Camera Mount	1/4-inch UNC-20 screw, top or bottom of camera housing

ENVIRONMENTAL

Operating Temperature	14° to 122°F (-10° to 50°C)
Storage Temperature	-4° to 140°F (-20° to 60°C)
Operating Humidity	20% to 80% (noncondensing)
Storage Humidity	20% to 90% (noncondensing)

PHYSICAL

Dimensions	2.69" D x 2.09" W x 2.19" H (6.83 x 5.31 x 5.56 cm)
Weight (without lens)	0.44 lb (0.20 kg)
Shipping Weight	1 lb (0.45 kg)

CERTIFICATIONS

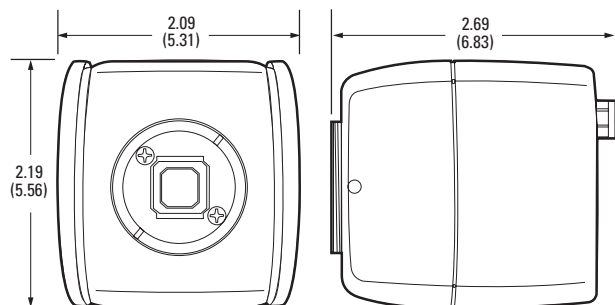
- CE, Class B
- FCC, Class B
- UL/cUL Listed

RECOMMENDED LENSES

13VDIR2.8-11, 13VDIR3-8.5, 13VDIR7.5-50	Varifocal lenses, 1/3-inch format, auto iris, direct drive, infrared
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RECOMMENDED MOUNTS

C10-UM	C10 series universal wall/ceiling/rail mount kit
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13VD Series Varifocal Lens

1/3-INCH FORMAT, AUTO IRIS (DIRECT DRIVE)

Product Features

- CS Mount
- Spot Filter
- For Use with 1/3-Inch Format Cameras
- Auto Iris, Manual Focus, and Zoom
- High Resolution Power in Compact Body



13VD5-40

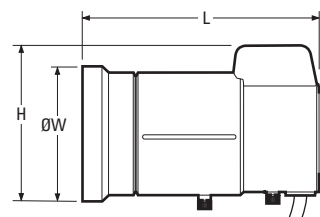
Pelco's **13VD Series** 1/3-inch varifocal lenses offer versatile and flexible packages in one basic lens. Each auto iris lens in this series covers a specific range of focal lengths. Adjust these lenses to get the exact field of view instead of "almost the right view."

Appropriate for indoor and outdoor lighting situations, the **13VD Series** lenses will fit all 1/3-inch CS-mount cameras requiring DC-drive auto iris lenses. In addition, all auto iris lenses include a spot filter. Lenses in the **13VD Series** come with a standard square 4-pin plug installed for ease of installation and convenience.

Lenses in this series are available in 2.1X, 2.4X, 2.7X, 4.3X, 8X, 10X, and 15X zoom with varying focal lengths.

Pelco's VD series lenses are intraspot-type lenses, which optimize the dynamic range of the iris. Maximum apertures of no less than F1.8 to a minimum aperture of F360 are typical of all these lenses. This allows for excellent performance characteristics across a wide range of lighting conditions.

Select the model lens that best suits your needs from the Technical Specifications section of this product specification sheet.



	H	ØW	L
13VD1-3	1.80 (4.57)	1.56 (3.96)	2.05 (5.21)
13VD2.5-6	1.80 (4.57)	1.55 (3.94)	1.85 (4.70)
13VD2.8-12	1.83 (4.65)	1.58 (4.01)	2.33 (5.92)
13VD3-8	1.65 (4.20)	1.30 (3.30)	1.78 (4.52)
13VD5-40	1.95 (4.95)	1.66 (4.22)	2.85 (7.24)
13VD5-50	2.13 (5.41)	1.63 (4.14)	2.33 (5.92)
13VD5.5-82.5	2.15 (5.46)	1.89 (4.80)	3.23 (8.20)

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TECHNICAL SPECIFICATIONS

MODELS

	13VD1-3	13VD2.5-6	13VD2.8-12	13VD3-8
Type	Varifocal	Varifocal	Varifocal	Varifocal
Format Size	1/3-inch	1/3-inch	1/3-inch	1/3-inch
Mount Type	CS	CS	CS	CS
Focal Length	1.6~3.4 mm	2.5~6 mm	2.8~12 mm	3~8 mm
Zoom Ratio	2.1X	2.4X	4.3X	2.7X
Relative Aperture (F)	1.4~360	1.4~125	1.4~360	1.0~360
Operation				
Iris	Auto (Direct Drive)	Auto (Direct Drive)	Auto (Direct Drive)	Auto (Direct Drive)
Focus	Manual	Manual	Manual	Manual
Zoom	Manual	Manual	Manual	Manual
Angle of View				
Diagonal	106.1°~180.0°	56.8°~133.3°	—	—
Horizontal	84.3°~180.0°	45.6°~107.6°	24.1°~97.4°	36°~91°
Vertical	55.8°~114.1°	34.2°~80.9°	18.1°~72.5°	27°~67°
Minimum Object Distance	0.2 m	0.2 m	0.3 m	0.2 m
Back Focal Length	7.06~11.54 mm	8.72~14.24 mm	8.6 mm	8.36 mm
Filter Size (mm)	N/A	N/A	N/A	N/A
Unit Weight	0.23 lb (0.11 kg)	0.20 (0.09 kg)	0.17 lb (0.08 kg)	0.09 lb (0.04 kg)
Shipping Weight	1 lb (0.45 kg)	1 lb (0.45 kg)	1 lb (0.45 kg)	1 lb (0.45 kg)
	13VD5-40	13VD5-50	13VD5.5-82.5	
Type	Varifocal	Varifocal	Varifocal	
Format Size	1/3-inch	1/3-inch	1/3-inch	
Mount Type	CS	CS	CS	
Focal Length	5~40 mm	5~50 mm	5.5~82.5 mm	
Zoom Ratio	8X	10X	15X	
Relative Aperture (F)	1.6~360	1.4~360	1.8~360	
Operation				
Iris	Auto (Direct Drive)	Auto (Direct Drive)	Auto (Direct Drive)	
Focus	Manual	Manual	Manual	
Zoom	Manual	Manual	Manual	
Angle of View				
Diagonal	8.8°~66.9°	—	4.2°~64.7°	
Horizontal	6.5°~53.6°	5.3°~53.4°	3.1°~50.7°	
Vertical	4.8°~40.2°	4.1°~40.1°	2.3°~37.5°	
Minimum Object Distance	Consult factory	0.5 m	0.2 m	
Back Focal Length	10~14.3 mm	10.05 mm	8.65~10.32 mm	
Filter Size (mm)	40.5P0.5	N/A	46P0.75	
Unit Weight	0.30 lb (0.14 kg)	0.25 lb (0.11 kg)	0.44 lb (0.20 kg)	
Shipping Weight	1 lb (0.45 kg)	1 lb (0.45 kg)	1 lb (0.45 kg)	

CERTIFICATIONS

- CE, Class B (all models)

OPTIONAL ACCESSORIES

LDC100	Auto iris drive converter. Converts a DC-drive auto iris lens to a video drive auto iris lens. Compatible with all lens size formats.
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