



Pelco by Schneider Electric understands that information is critical to success, which is why we are singularly focused on the development of video surveillance and security solutions that provide you the information necessary to make real-time, business-enabling decisions. From the recently introduced VideoXpert video management platform to our industry-leading selection of IP cameras and accessories, Pelco is committed to designing and delivering a broad range of high-quality, IP video security products and systems complemented with an unparalleled level of customer support and services.

For additional information, contact:

Pelco
3500 Pelco Way
Clovis, CA 93612 USA
Phone: +1 813 888-9555
Web: www.pelco.com
E-mail: sales@pelco.com

INDOOR AND OUTDOOR MINI DOME NETWORK CAMERAS

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

28 20 00 Electronic Surveillance

28 23 00 Video Surveillance

28 23 29 Video Surveillance Remote Devices and Sensors

Notes to Specifier:

1. Where several alternative parameters or specifications exist, or where, the specifier has the option of inserting text, such choices are presented in **<bold text>**.
2. Explanatory notes and comments are presented in **colored** text.

INDOOR AND OUTDOOR EH20 SERIES ENCLOSURE

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes a network dome camera with housing.
- B. Product – A compact, indoor/environmental, IP-enabled enclosure.
- C. *Related Requirements*
 - 1. 27 20 00 Data Communications
 - 2. 28 23 13 Video Surveillance Control and Management Systems
 - 3. 28 23 16 Video Surveillance Monitoring and Supervisory Interfaces
 - 4. 28 23 19 Digital Video Recorders and Analog Recording Devices
 - 5. 28 23 23 Video Surveillance Systems Infrastructure

1.02 REFERENCES

- A. Abbreviations
 - 1. AGC - Automatic Gain Control
 - 2. API – Applications Programming Interface
 - 3. ARP – Address Resolution Protocol
 - 4. AWB - Automatic White Balance
 - 5. BLC – Back Light Compensation
 - 6. CBR – Constant Bit Rate
 - 7. CVBR – Constant and Variable Bit Rate
 - 8. DHCP - Dynamic Host Configuration Protocol
 - 9. DNR – Digital Noise Reduction
 - 10. DNS - Domain Name Server
 - 11. EAP – Extensible Authentication Protocol
 - 12. fps - frames per second
 - 13. FTP - File Transfer Protocol
 - 14. GUI – Graphical User Interface
 - 15. HTTP - Hypertext Transfer Protocol
 - 16. HTTPS – Secure Hypertext Transfer Protocol
 - 17. ICMP – Internet Control Message Protocol
 - 18. IGMP - Internet Group Management Protocol
 - 19. IP - Internet Protocol
 - 20. JPEG - Joint Photographic Experts Group
 - 21. LDAP – Lightweight Directory Access Protocol
 - 22. MJPEG - Motion JPEG
 - 23. MPEG - Moving Pictures Experts Group

24. NTP - Network Time Protocol
25. PoE - Power over Ethernet
26. PPPoE - Point-to-Point Protocol over Ethernet
27. QoS – Quality of Service
28. RTP - Real-Time Transport Protocol
29. RTSP - Real-Time Streaming Protocol
30. SMTP - Simple Mail Transfer Protocol
31. SNMP – Simple Network Management Protocol
32. SSH – Secure Shell
33. SSL – Secure Sockets Layer
34. TCP - Transmission Control Protocol
35. UDP - User Datagram Protocol
36. UPnP – Universal Plug and Play
37. VBR – Variable Bit Rate
38. WDR – Wide Dynamic Range
39. VMS - Video Management System
40. WDR – Wide Dynamic Range

B. Reference Standards

1. Network
 - a. IEEE
 - 1) 802.3 Ethernet Standards
2. Emissions
 - a. FCC (Class A) – 47 CFR Part 15
 - b. CE – EN 55022 (Class A), EN 50130-4, EN 60950-1
 - c. ICES-003, Class A
3. Environmental Models
 - a. ANSI / IEC 60529 – Degrees of Protection Provided by Enclosures – IP66
 - b. IK10 (20J) Impact Resistance / IEC62262 (Note: The window is not IK10.)
 - c. National Electrical Manufacturers Association, NEMA 250-2003, 4X Enclosure Definition

1.03 SUBMITTALS

A. Product Data

1. Manufacturer's printed or electronic data sheets
2. Manufacturer's installation and operation manuals
3. Warranty documentation

1.04 QUALIFICATIONS

- A. Manufacturer shall have a minimum of seven years' experience in producing IP video equipment.
- B. Installers shall be trained and authorized by the Manufacturer to install, integrate, test, and commission the system.

1.05 DELIVERY, STORAGE AND HANDLING

- A. Deliver the camera in the manufacturer's original, unopened, undamaged container with identification labels intact.
- B. Store the camera in a temperature environment protected from mechanical and environmental conditions as designated by the manufacturer.

1.06 WARRANTY AND SUPPORT

- A. Manufacturer shall provide a limited 3-year warranty for the product to be free of defects in material and workmanship.
- B. Manufacturer shall provide options to extend the warranty by up to 5 years at the time of initial purchase.

END OF SECTION

PART 2 PRODUCTS

2.01 EQUIPMENT

A. Manufacturer: Pelco
3500 Pelco Way
Clovis, CA 93612 USA
Phone: +1 813 888-9555
Web: www.pelco.com
E-mail: sales@pelco.com

B. EH20 Series Indoor/Outdoor Enclosures:

Model #	Heater	Fan	24 VAC	110-230 VAC	PoE+/HPOE	Wall Mount Bracket
EH20	–	–	–	–	–	–
EH20-M	–	–	–	–	–	Yes
EH20-2-H	Yes	Yes	Yes	–	–	Yes
EH20-3-H	Yes	Yes	–	Yes	–	Yes
EH20-P-H	Yes	Yes	–	–	Yes	Yes

2.02 GENERAL DESCRIPTION

- A. The indoor/outdoor enclosure shall allow use for analog and IP network cameras.
- B. The indoor/outdoor enclosure shall have a camera mounting sled and track assembly.
- C. The indoor/outdoor enclosure shall be IK10 impact resistant. (Note: The window is not IK10.)
- D. The indoor/outdoor enclosure shall meet NEMA Type 4X and IP66 Standards.
- E. The indoor/outdoor enclosure shall meet or exceed the following design and performance specifications.

1. Electrical Specifications

- a. Input Power 24 VAC, POE+, HPOE, or 96-264 VAC
- b. Input Voltage
 - 1) PoE IEEE802.3at compatible (heaters disabled), HPOE (heaters enabled), PoE output to camera ±10%, up to 30 W (without camera), up to 43W (with 13W camera), 24 VAC output to camera ±10%, up to 30 W (without camera), up to 43W (with 13W camera), 12 VDC output to camera
 - 2) 24 VAC
 - 3) 110 VAC-240 VAC

2. General Specifications

- a. Construction Die-cast aluminum
- b. Finish Alodine with gray polyester powder coat
- c. Environment Indoor/outdoor
- d. Operating Temperature –30° to 50°C (–22° to 122°F)
- e. Unit Length
 - 1) Base 17.09 cm (6.73 in) W x 10.90 cm (4.29 in) H x 40.57 cm (15.97 in) L
 - 2) Overall 17.09 cm (6.73 in) W x 23.96 cm (9.43 in) H x 47.14 cm (18.56 in) L
- f. Unit Weight
 - 1) EH20 2.50 kg (5.50 lb)
 - 2) EH20-M 2.91 kg (6.40 lb)
 - 3) EH20-2-H 3.14 kg (6.92 lb)
 - 4) EH20-3-H 3.43 kg (7.56 lb)

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| <p>5) EH20-P-H</p> | <p>3.13 kg (6.90 lb)</p> |
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| <p>3. Mechanical Specifications</p> <p>a. Camera Mounting</p> <p>b. Camera and Lens Size</p> <p>c. Viewing Window</p> <p>d. Viewing Area</p> <p>e. Cable Entry</p> <p>f. Maximum Cable Diameters</p> <p> 1) PG11</p> <p>g. Cable Entry Holes</p> <p>h. Lid Fastening</p> | <p>Single slot for adjustable camera positioning on camera sled</p> <p>Accepts camera and lens combinations up to (including BNC connector), up to 22.86 x 10.16 x 7.62 cm (9.00 in L x 4 in W x 3.5 in H)</p> <p>0.3 cm (0.118-inch) thick, high optic grade, soda lime glass</p> <p>8.89 x 7.62 cm (3.5 in W x 3 in H)</p> <p>2 x PG11 compression glands on bottom</p> <p>1.00 cm (0.395 in)</p> <p>1.87 cm (0.74 in) and will accept PG11 or 3/8-inch NPT conduit fittings as is. Will accept PG13.5 or 1/2-inch NPT fittings if the holes are enlarged to 2.22 cm (0.88 in).</p> <p>Torx security screws</p> |
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| <p>4. Certifications</p> <p>a. CE (Class A)</p> <p>b. ICES-003 (Class A)</p> <p>c. UL/cUL Listed</p> <p>d. UL/IEC 60950-22</p> <p>e. Meets NEMA Type 4 and IP66 standards</p> <p>f. IK10 Mechanical Impact Resistance (Mechanical enclosure only; not the front window)</p> <p>g. KCC</p> <p>h. RCM</p> | |
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| <p>F. Warranty</p> <p>1. 36 Months, parts and labor</p> | |
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|---|---|
| <p>G. Pelco Model Numbers</p> <p>1. EH20 Series</p> <p>2. EH20-M Series</p> <p>3. EH20-2-H Series</p> <p>4. EH20-3-H Series</p> <p>5. EH20-P-H Series</p> | <p>Basic enclosure</p> <p>Basic enclosure, with wall mount bracket</p> <p>Basic enclosure, with heater and fan, 24 VAC, and wall mount bracket</p> <p>Basic enclosure, with heater and fan, 110 VAC and 230 VAC, and wall mount bracket</p> <p>Basic enclosure, with heater and fan, PoE+/HPOE, and all mount bracket</p> |
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END OF SECTION

PART 3 EXECUTION

3.01 INSTALLERS

- A. Contractor personnel shall comply with all applicable state and local licensing requirements.

3.02 PREPARATION

- A. The network design and configuration shall be verified for compatibility and performance with the camera(s).
- B. Network configuration shall be tested and qualified by the Contractor prior to camera installation.

3.03 INSTALLATION

- A. Before permanent installation of the system, the Contractor shall test the system in conditions simulating the final installed environment
 - 1. A report indicating successful test results shall be produced.
- B. Contractor shall follow all Manufacturer-published guidance on proper installation and configuration of the camera.

3.04 STORAGE

- A. The dome camera hardware shall be stored in an environment where temperature and humidity are in the range specified by the Manufacturer.

END OF SECTION