

Fortified Integrated Camera Systems — Now in Stock and Taking Camera Protection to a New Level!

Taking fixed camera systems to a new level of protection from heat, cold, humidity, and challenging power environments, the new Pelco™ by Schneider Electric™ Fortified Series integrated camera systems are available as fully assembled, tested, and certified camera systems; including the camera, lens, enclosure, mount, power supply, and optional fiber media converters. For the best in reliability and protection for your video surveillance camera investment, look for the new Pelco series of Fortified enclosure systems.



Series Overview:

- Integrated Camera Systems include housing, lens, camera, and power supply; all FH Series Camera Systems are wired, tested, and certified
- Non metallic long life, thermoplastic alloy will not corrode, rust, or oxidize
- Impact resistant at all temperatures, for protection from acts of vandalism including rock and object impact
- Integrated wall mount and full line of optional mounting brackets for virtually any mounting scenario
- Ample internal space for camera and additional accessories
- Active cooling systems
- 24VAC or 230VAC input, with PoE Power to camera
- CE, UL, cUL, IK10, IP66
- Optional fiber optic media converter for IP camera models
- Choose from several camera options, including analog NTSC or PAL models. IP cameras include 2, 3, and 5 megapixel (MPx) models



FH-H Series High-Temperature Systems

By making use of a unique new thermoplastic alloy, Fortified technology reduces thermal loading by removing internal heat from the enclosure when temperatures exceed 149°F (65°C). All high-temperature-equipped products are thermally stable and 100 percent isolated from external environments that carry dust, salts, moisture, and insects. The active on-board air conditioning system of the FH-HI/FH-HC Series Fortified Camera System protects the camera and other system-related electronics from heat buildup on sensitive components. The FH-HI/FH-HC Series is IP66 rated with active cooling technology and is dust- and water-tight.

- Temperature range from 14° to 158°F (-10° to 70°C)
- Active cooling system
- Excessive-temperature warning



FH-L Series Low-Temperature Systems

The low-temperature series heated interior system protects sensitive cameras from damaging cold temperatures, while reducing and eliminating obtrusive external ice build-up in climates down to -104°F (-40°C). Unlike traditional “heat patch” enclosures that often fog or ice over at extreme low temperatures, our defrosting circuitry keeps the front window free of elements that would obstruct the camera’s view. The on-board heater of the FH-LI/FH-LC Series Fortified Camera System protects the camera, system-related electronics, and the camera’s most sensitive components in the coldest environments. The FH-LI/FH-LC Series is IP66 rated with robust heating technology and is dust- and water-tight.

- Temperature range from -76° to 113°F (-60° to 45°C)
- Thermal protective element
- IK10 mechanical impact resistance



FH-M Series Humid-Environment Systems

This camera system option reduces external lens fogging and ensures that the camera's view is not compromised when humidity and temperatures increase. The system uses a twin high-flow internal blower system to prevent internal heat buildup and to keep internal components within ideal operational temperature and humidity range. The active on-board dehumidifier of the FH-MI/FH-MC Series Fortified Camera System protects the camera and other system-related electronics by removing moisture buildup from sensitive components. The FH-MI/FH-MC Series is IP66 rated with an active dehumidifier, and is dust- and water-tight.

- Temperature range from -4° to 113°F (-20° to 45°C)
- Active dehumidifier
- Input power 24VAC



FH-S Series 12VDC Power Optimized Enclosures

The FH-S 12VDC-powered series is engineered to protect cameras and lenses installed within normal environmental conditions, when powered by a 12VDC electric system. Most camera systems are not optimized for solar power, and cause an extreme load on the system. The Fortified Series of 12VDC-compatible systems optimize the camera system for solar powering. The FH-SI/FH-SC Series Fortified Camera System is designed with a unique power supply to power the camera and other system-related electronics using a low-voltage input. The FH-SI/FH-SC Series is IP66 rated with a specialized power supply and is dust- and water-tight.

- Temperature range from -4° to 113°F (-20° to 45°C)
- Heating and cooling system
- Input power 12VDC



Fortified System FAQ



HOW IS THE ENCLOSURE CONSTRUCTION MATERIAL TESTED AGAINST HEAT?

We rely on the polycarbonate manufacturer's specification for performance data of the actual material. The temperature that is important to polycarbonate is the "glass-liquid transition temperature." The temperature on this scale where the polycarbonate becomes less than stiff is 295°F (147°C). The temperature at which the polycarbonate melts is 310°F (155°C). These numbers come directly from the manufacturer of the polycarbonate material. In addition, the product itself has been tested at continuous 158°F (70°C) for three days with no deformation issues.

WHY ARE FORTIFIED ENCLOSURES AVAILABLE ONLY AS SYSTEMS?

Our Fortified systems have been engineered to provide customers with a completely tested and certified system that we guarantee will meet our published specifications for the full three-year warranty period and beyond. All Fortified systems are fully tested — including the camera and lens and all other internal accessories — and carry full certification and compliance. By providing a completely tested and guaranteed system, we save the installer time and money by eliminating the guesswork and "trial and error" process of trying to mix and match together an extreme-environment system.

HOW RUGGED IS THE ENCLOSURE AGAINST HARD RAIN AND SANDSTORMS?

The camera enclosure compartment and the data compartment in the wall arm are IP66 rated. The arm is IP54 rated for the power connections area, and the H series power supply itself is IP67 rated and potted in epoxy. For the H Series, the fan itself is IP54 rated. The end result is a robustly sealed and certified system that offers excellent, guaranteed protection for the camera, lens, and components.

WHAT IS THE VANDAL PROTECTION AVAILABLE FOR THE ENCLOSURE? VANDAL OR IMPACT?

The unit can withstand an IK10 impact = 20 joules of energy. This test was performed at -22°F (-30C) and at 140°F (60°C). In addition, a subjective test at -22°F (-30C) was performed, with a strong man swinging a 15-pound sledgehammer to the enclosure with a full swing, and no breakage of the enclosure was seen.

IN THE CASE OF FH UNIT OVER TEMPERATURE, CAN THE USER BE NOTIFIED VIA THE VIDEO MANAGEMENT SYSTEM?

Yes, cameras can be interfaced to Pelco and third-party VMS for over-temperature alarm. The interface specifics regarding Endura™, Digital Sentry™, and third-party VMS systems may be different, but there is ample documentation available to assist in the process. Additionally, Pelco does expose camera alarms in our API, so any third-party potentially can process the alarm should they want to write the appropriate driver. The Pelco Partner First website (partnerfirst.pelco.com) shows which partner VMS systems currently can process alarms from Pelco cameras. **PP**