CAMERA
ENCLOSURES_

MOOG

Fusion Camera Housing

with Thermiq™ Cooling Technology

The professional grade outdoor Fusion Camera Housing with Thermiq Technology is designed to keep advanced IP fixed cameras operating at top performance. A major threat to outdoor cameras is heat. Today's IP cameras generate a lot of heat and radiation from the sun is a substantial contributor as well. A typical outdoor camera system may operate in an ambient temperature of 105°F (40°C), but the temperature inside the camera can be 120°F (50°C) or higher. Over time high temperatures reduce the performance of the camera and can lead to premature failure.

Moog Engineers developed Thermiq Technology, a technologically advanced yet simple and effective solution to combat camera heat. Unlike other camera cooling solutions on the market, Thermiq Technology requires very little power and maintains the camera enclosure's rugged IP66 rating while ensuring that heat does not build up in the camera. By flowing warm internal air and cool external air over a heat sink designed for maximum efficiency, heat generated by IP camera electronics and sun radiation is evacuated from the housing. Thermiq Technology removes up to 75% of heat generated by the camera and solar energy, keeping the internal housing temperature closer to ambient.

Intuitive design also played a key role in the formation of the Fusion Line. Smart features include: a side hinge that allows for easy camera servicing and setup; a camera mounting sled that snaps into the housing for simple and secure camera installation; a strategically placed heater that defogs the housing window and lens for clear viewing; and a heavy-duty feed through wall/pole mount with conduit input for clean aesthetics. Available with 24Vac / 12Vdc input or Moog PoE plus with (Patent Pending) Dynamic Power Allocation (DPA) technology. There's a Fusion model ideal for your particular surveillance application.

Available Features

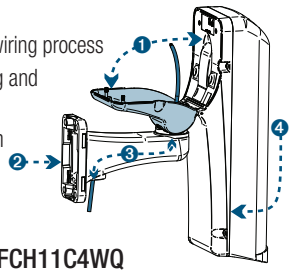
- Meets NEMA Type 4 and IP66 standards
- IK10 impact rated
- Thermostatically controlled blower
- Standard wall / pole mount
- Accommodates wide-angle lenses up to 135º
- Fits most fixed camera / lens combinations

VIDEOLARM

FCH11Q

Easy Installation Features:

1. Housing hinges away from mount to simplify wiring process
2. Feed through wall / pole mount protects wiring and provides a clean appearance
3. Provision for conduit access through mount arm
4. Side housing hinge allows easy camera access



Models:

FCH11C2WQ
Environmental housing with heat exchanger, feed-thru wall / pole mount 24Vac or 12Vdc input, heater / blower, adjustable sunshield

FCH11C8WQ
PoE input, with DPA, supports IEEE802.3af cameras, 30 watt midspan included, heater/ blower, adjustable sunshield

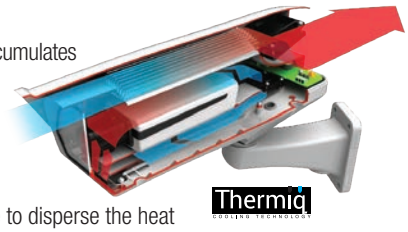
FCH11C4WQ-SM
24Vac input, output 802.3af PoE for the camera, heater / blower, adjustable sunshield with MSA compliant single-mode fiber-optic transceiver

FCH11C4WQ
24Vac input, output 802.3af PoE for the camera, heater / blower, adjustable sunshield

FCH11C4WQ-MM
24Vac input, output 802.3af PoE for the camera, heater / blower, adjustable sunshield with MSA compliant multi-mode fiber-optic transceiver

How Thermiq WORKS:

- Heat is generated by the camera and accumulates inside the camera housing
- As it accumulates, conductive metal fins absorb the heat and transfer it outside of the enclosure
- High velocity air is pulled across the fins on the outside of the enclosure to disperse the heat



The Net Effect: *A reduction in temperature that brings the internal environment near ambient while maintaining a tightly sealed IP66 enclosure rating.*

PoE:

- PoE or 12/24v input model
  - Supports IEEE802.3af compliant cameras
  - PoE cameras without 12Vdc or 24Vac options are compatible
  - Automatically adjusts for power loss in long cable runs
  - DPA ensures maximum power to the camera

General Specifications

Camera Included:	No
Max camera length:	11" (280mm)
Mounting Style:	Wall or Pole
Size (l*w*h):	19.2" x 6.1" x 11.1" (488 x 155 x 282mm)
Weight:	5.3 lbs

Electrical Specifications

Input Voltage:		PoE (IEEE802.3at) or 12/24v input model
Power Consumption	24Vac:	30 watts: Heater & Blowers
	12Vdc:	13 watts: Heater & Blowers
	PoE:	25 watts: Camera, Blowers & Heater
Power Output	24/12v:	Same as input, minus power for Heater & Blowers
	PoE:	IEEE802.3af

Environmental Specifications

Blower (Internal):	Yes (Continuous)
Effective Projected Area (EPA):	105 in^2
Heater activates at:	60°F (15.5°C)
Heater deactivates at:	80°F (27°C)
IP rating (Weather rating):	IP66 / NEMA 4
Maximum Windload:	150mph (240kph)
Operating Temperature:	-50°F to 140°F (-45°C to 60°C) With spikes to 165°F (74°C) per NEMA TS2 standard.

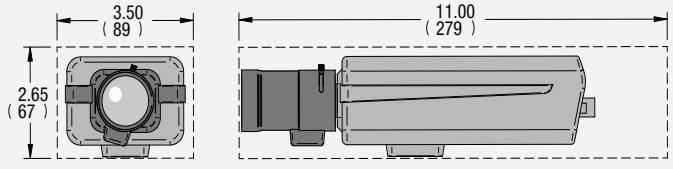
Mechanical Specifications

Construction Body and Top:	Polycarbonate
Mounting Bracket Construction:	Cast aluminum
Mounting Pattern (W x H):	2" x 4.25" (51 x 108mm)
Window Construction:	Scratch resistant polycarbonate

Shipping Specifications

Model	Shipping Weight	Box Dimensions
FCH11Q Series:	7.3 lbs	8.25" x 11.75" x 19.5" (209 x 298 x 495mm)

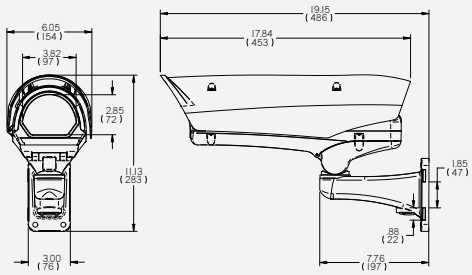
Maximum Camera Length (MCL)



Dimensions are in inches (mm)

*Some cameras outside of the shown dimensions may be compatible with this housing. Contact Moog Videolarm for assistance.

Architectural Drawings



Dimensions are in inches (mm)

Regulatory and Certifications

CE · CUL · IP66 · RoHS · UL Listed · WEEE · REACH

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