



**MULTI-SPECTRAL
INTRUSION SOLUTION**

FLIR SAROS™ DH-390 DOME camera

The FLIR Saros™ DH-390 Dome combines multiple traditional perimeter protection technologies into a unified solution that delivers accurate, actionable alerts and verified alarm data. The Saros DH-390 Dome includes dual FLIR Lepton® thermal sensors, a 1080p camera, IR and visible LED illuminators, advanced onboard analytics, audio talk-down, and digital I/Os. It enables businesses to implement reliable, state-of-the-art outdoor intrusion detection in a cost-effective manner by minimizing the equipment required and reducing false alarms. Easy to install, the Saros DH-390 Dome is ideal for such locations as construction sites, auto dealerships, schools, and critical infrastructure.



SINGLE-UNIT SOLUTION

Multiple technologies in one device reduce operation costs.

- Dual FLIR Lepton® thermal sensors
- High definition optical camera
- IR and visible LED illuminators
- Advanced onboard analytics
- Audio talk-down, digital input/outputs



THERMAL DETECTION WITH ANALYTICS

Thermal sensors see at night, enabling analytics to reduce false alarms.

- Wide-area monitoring through sun glare, smoke, rain, dust, and light fog
- Analytics classify humans and vehicles, improving alarm accuracy
- Actionable alerts enable security professionals to respond more effectively



DESIGNED FOR CYBERSECURITY

The FLIR DH-390 Saros Dome is engineered to reduce exposure to remote security attacks.

- End-to-end encryption for setup, web, and video streams
- Eliminates the need for port-forwarding
- Configuration lockdown after initial setup for increased tamper prevention

SPECIFICATIONS

Thermal Sensor & Optics

Array Format (NTSC)	320 x 120 native, 960 x 360 VividIR
Detector Type	Uncooled Sun-safe VOx Microbolometer
Pixel Pitch	12 µm
Thermal Frame Rate	10FPS
Optical Characteristics	2 X Lepton 3.5 HFOV 57° each Min. Stitched HFOV 90° f/1.1
Thermal sensitivity	<50mK
E-Zoom	No ezoom
Spectral Range	7.5 µm to 13.5 µm
Focus Range	Athermalized, Focus-Free

Video

Video Compression	Dual stream H.264, MJPEG
Thermal Image Settings	Auto AGC, Brightness, Contrast
Thermal AGC Region of Interest (ROI)	Default, Presets and User definable to ensure optimal image quality on subjects of interest
Image Uniformity Optimization	Automatic Flat Field Correction (FFC) - Thermal and Temporal Triggers
Video Fusion	Patented MSX technology Unified stream
Wide Dynamic Range (WDR)	Yes

Analytics

Person and vehicle object classification
Cross-line detection
Object in region
Rule dependency/multi-rule trigger
Event notification via relay out, white light LED activation, ONVIF

System Integration

Ethernet	Yes
Network APIs	FLIR SDK, FLIR CGI, ONVIF Profile S
WiFi	Enabled with ability to turn off
Digital I/O	Virtual I/O for connected VMS actions
Audio I/O	Bi-Directional Audio - connection - Terminal block
GPIO	One input dry alarm contacts; One output relay contact 1A max at 24 VAC / 30 VDC
Audio Compression	G711, AAC
Storage	Planned for future release
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, UDP/TCP

General

Input Voltage	PoE (802.3af, Type 1, Class 3) 12 VDC (10-14 VDC) 24 VDC (21-30 VDC) 24 VAC (21-30 VAC)
Power Consumption	12/24 VDC input: 4.2W consumption
Day / Night Mode	Automatic with 940nm NIR LEDs for very low light scenes. White light LEDs automatic on event for color detail.

Environmental

IP Rating (Dust & Water Ingress)	IP66
Operating Temperature Range	-40 to +60°C without LEDs enabled, 40°C max with LEDs
Weight	3.75lbs / 1700g
Dimensions	Base: 6.13" / 156mm Protrusion: 6.74" / 171mm (with sunshield)
Humidity	MIL-STD-810; 0-95% relative
Shock	IEC 60068-2-27
Vibe	IEC 60068-2-64 & MIL-STD-810F, NEMA TS 2-2003 v02.06
Salt Fog	MIL-STD-810F

Compliance & Certifications

FCC Part 15 (Subpart B, class A)
CE Marked
RoHS
IP66
WEEE
ONVIF Profile S
EN62368-1: 2014

Visible Light Camera

Sensor Resolution	1920 x 1080, 2.1MP, 1/2.8 @30 fps
Lens Type	3mm / F1.6, P-Iris with auto-focus
Frame Rate	30FPS
White Balance	Automatic
Wide Dynamic Range (HDR)	120dB

Cyber Security

802.1x
TLS/HTTPS
User authentication
Access control via firewall
User credentials with policy enforcement
Digest authentication