



### MULTI-SPECTRAL INTRUSION SOLUTION

# FLIR SAROS<sup>™</sup> 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.

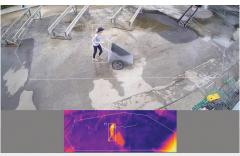
www.flir.com/saros



#### 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		General	
Array Format (NTSC)	320 x 120 native, 960 x 360 VividIR	Input Voltage PoE (802.3af, Type 1, Class 3) 12 VDC (10-14 VDC) 24 VDC (21-30 VDC) 24 VAC (21-30 VAC)	
Detector Type	Uncooled Sun-safe VOx Microbolometer		
Pixel Pitch	12 µm		
Thermal Frame Rate	10FPS	Power Consumption	12/24 VDC input: 4.2W consumption
Optical Characteristics	2 X Lepton 3.5 HF0V 57° each Min. Stitched HF0V 90° f/1.1	Day / Night Mode	Automatic with 940nm NIR LEDs for very low light scenes. White light LEDs automatic on event for color detail.
		Environmental	
Thermal sensitivity	<50mK	<ul><li>IP Rating (Dust &amp; Water Ingress)</li></ul>	IP66
E-Zoom	No ezoom	Operating Temperature Range	-40 to +60°C without LEDs enabled, 40°C max with LEDs
Spectral Range	7.5 µm to 13.5 µm	- Weight	3.75lbs / 1700g
Focus Range	Athermalized, Focus-Free		Base: 6.13" / 156mm
Video		Dimensions	Protrusion: 6.74" / 171mm (with sunshield)
Video Compression	Dual stream H.264, MJPEG	Humidity	MIL-STD-810; 0-95% relative
Thermal Image Settings	Auto AGC, Brightness, Contrast	Shock	IEC 60068-2-27
Thermal AGC Region of Interest (ROI)	Default, Presets and User definable to ensure optimal image quality on subjects of interest	Vibe	IEC 60068-2-64 & MIL-STD-810F, NEMA TS 2-2003 v02.06
Image Uniformity	Automatic Flat Field Correction (FFC) - Thermal and Temporal	- Salt Fog	MIL-STD-810F
Optimization	Triggers	Compliance & Certifications	
Video Fusion	Patented MSX technology Unified stream	FCC Part 15 (Subpart B, class A)	
Wide Dynamic Range (WDR) Yes		CE Marked	
		RoHS	
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		IP66	
		WEEE	
		ONVIF Profile S	
		EN62368-1: 2014	
System Integration		Visible Light Camera	
Ethernet	Yes	Sensor Resolution	1920 x 1080, 2.1MP, 1/2.8 @30 fps
Network APIs	FLIR SDK, FLIR CGI, ONVIF Profile S	Lens Type	3mm / F1.6, P-Iris with auto-focus

System megration			
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		

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			
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### Cyber Security

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

 $Specifications\ are\ subject\ to\ change\ without\ notice.\ For\ the\ most\ up\mbox{-}to\mbox{-}date\ specs,\ go\ to\ www.teledyneflir.com$ 

### UNITED STATES

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21-0896-SEC Saros DH-390 Datasheet

