

HIGH-PERFORMANCE PAN/TILT MULTI-SENSOR CAMERA

FLIR SAROS[™] **DM-Series**

The FLIR Saros DM-Series introduces eight new VGA and QVGA resolution options to FLIR's multi-sensor security lineup. Capable of capturing video in complete darkness, bright sunlight, and through smoke, dust, or light fog, the Saros DM-Series provides superior perimeter protection in the toughest lighting and environmental conditions. A built-in 4K visible light camera operates alongside the thermal sensor to capture minute details in low light conditions. The Saros DM-Series also integrates with the FLIR United Video Management System (UVMS), as well as other ONVIF-compliant video management systems. This gives users complete control over the all new dual-sensor viewing mode, alarm functions, and fully programmable preset tour.



TELEDYNE

INDUSTRY-LEADING THERMAL Superior thermal image quality and a built-in 4K visible camera offer versatile, multi-spectral surveillance

- Delivers market-leading images in tough conditions, including darkness, glaring light, and through obscurants
- Onboard 4K visible light camera with e-zoom and low light capability
- Available 640 × 512 and 320 × 256 thermal resolutions

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MULTIPLE LENS OPTIONS Choose from a wide range of lenses, along with VGA and QVGA sensors, for optimal detection ranges in challenging conditions

- Choose from eight high-performance lenses, ranging from $95^{\circ} \times 72^{\circ}$ to $12^{\circ} \times 9^{\circ}$ FOV
- Athermalized, focus-free lenses



DESIGNED FOR CYBERSECURITY 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

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SPECIFICATIONS

Thermal Sensor & Optics	220 250	G40 E12				
Array Format (NTSC)		320 × 256, 640 × 512				
Thermal Sensitivitiy	< 50 mK@ 25°C, F/1.0					
Detector Type Pixel Pitch	Long-life, uncooled VOx microbolometer					
Thermal Frame Rate		12 μm				
I nermai Frame Rate	NTSC: 30 Hz PAL: 25 Hz / 8.3 Hz					
Optical Characteristics	Model DM-392 DM-350 DM-324 DM-312 DM-695 DM-650 DM-624 DM-612	$\begin{array}{c} {\sf FOV}({\sf H}\times{\sf W})\\ {\sf 92}^\circ\times{\sf 69}^\circ\\ {\sf 50}^\circ\times38^\circ\\ {\sf 24}^\circ\times18^\circ\\ 12^\circ\times9^\circ\\ {\sf 95}^\circ\times72^\circ\\ {\sf 50}^\circ\times38^\circ\\ {\sf 24}^\circ\times18^\circ\\ 12^\circ\times9^\circ\end{array}$	Focal Length 2.3 mm 4.3 mm 9.1 mm 18 mm 4.9 mm 8.7 mm 18 mm 36 mm	F# F/1.0 F/1.0 F/1.0 F/1.0 F/1.0 F/1.0 F/1.0 F/1.0		
E-Zoom	Continuous	Continuous E-Zoom to 4x				
Spectral Range	7.5 µm to 1	7.5 μm to 13.5 μm				
Focus Range	Athermaliz	Athermalized, Focus-Free				
Video						
Video Compression		Thermal: One channel of H.264 & M-JPEG Visible: Two independent channels of H.264 & M-JPEG				
Streaming Resolution	Thermal: QVGA to VGA Visible: VGA to 4K					
Thermal Image Settings	Auto AGC, Dynamic Detail Enhancement (DDE), Brightness, Sharpness, Contrast					
Thermal AGC Region of Interest (ROI)	Default, Presets and User definable to insure optimal image quality on subjects of interest					
Image Uniformity Optimization	Automatic Flat Field Correction (FFC) - Thermal and Temporal Triggers					
System Integration						
Ethernet	Yes					
Network APIs	FLIR SDK, FLIR CGI, ONVIF Profile S					
Digital I/O	Output: Tw	Input: Four sets / 5V 10 kΩ pull up Output: Two sets / relay output, 120 mA max at 24 VDC / 24VAC				
Audio I/O	Bi-Directio	Bi-Directional Audio - connection - Terminal block				
Network						
Supported Protocols		IPV4, HTTP, UPnP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, ICMP, IGMP, DHCP, ARP				
Pan/Tilt Performance						
Pan Angle	Continuous	Continuous 360°				
Tilt Angle	-10° - 190°	-10° – 190°				
Programmable Presets	256	256				
General						
Dimensions	Diameter:	Diameter: 207 mm (8.15 in) Height: 300 mm (11.8 in)				
Weight	3.8 Kg (8.3	3.8 Kg (8.38 lbs.)				
Input Voltage	24VAC, Un	24VAC, Universal PoE Injector				
Power Consumption		24 VAC, 2.36 A, 57 VA 55 VDC (PoE), 0.62 A, 34 W				

Environmental					
IP Rating (Dust & Water Ingress)		IP66			
Operating Temperature Range		-40°C to 55°C (-40°F to 131°F)			
Storage Temperature Range		-40°C to 85°C (-40°F to 185°F)			
Humidity		10 - 90%			
Shock		IEC 60068-2-27	IEC 60068-2-27		
Vibe		IEC 60068-2-64			
Compliance 8	k Certifications				
FCC Part 15 (Subpart B, Class A)					
CE Marked					
RoHS					
IP66					
ONVIF Profile S					
WEEE (Waste El	ectrical and Electron	ic Equipment Directi	ive)		
IEC 62368					
Visible Light 4	K Camera				
Sensor Type		Full HD 4K	Full HD 4K		
		1/1.8"-type Exmo	1/1.8"-type Exmor R CMOS		
E-Zoom		Continuous E-Zo	Continuous E-Zoom to 8x		
			Sensitivity		
Visible lens 1	Lens FOV	HFOV = 110°	Color: 0.25 Lux (@		
		VFOV = 59°	(f1.6 AGC On, 30 FPS)		
	Focal Length	2.8 mm	B/W: 0.10 Lux (@		
	F/#	F 1.6	(f1.6 AGC On, 30 FPS)		
	Corresponding	DM-392,			
	Models	DM-695, DM-350,			
		DM-650			
Visible lens 2	Lens FOV	HFOV = 55°	Color: 0.25 Lux (@		
		VFOV = 30°	(f1.6 AGC On, 30 FPS)		
	Focal Length	6 mm	B/W: 0.10 Lux (@		
	F/#	F 1.6	(f1.6 AGC On, 30 FPS)		
	Corresponding	DM-324,			
	Models	DM-624			
Visible lens 3	Lens FOV	HFOV = 36°	Color: 0.40 Lux (@		
		VFOV = 20°	(f2.0 AGC On, 30 FPS)		
	Focal Length	12 mm	B/W: 0.16 Lux (@		
	F/#	F 2.0	(f2.0 AGC On, 30 FPS)		
	Corresponding	DM-312,			
	Models	DM-612			
Cyber Securit	У				
802.1x TLS/HTTPS					
User authentication					
Access control via firewall					
User credentials with policy enforcement Digest authentication					
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