



## 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.

[www.flir.com/security](http://www.flir.com/security)



### 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



### 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° × 72° to 12° × 9° 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

## SPECIFICATIONS

Thermal Sensor & Optics				
Array Format (NTSC)	320 × 256, 640 × 512			
Thermal Sensitivity	< 50mK@ 25°C F# 1.0			
Detector Type	Long-Life, Uncooled VOx Microbolometer			
Pixel Pitch	12 μm			
Thermal Frame Rate	NTSC: 30 Hz PAL: 25 Hz / 8.3 Hz			
Optical Characteristics	Model	FOV (H × W)	Focal Length	F#
	DM-392	92° × 69°	2.3 mm	F/1.0
	DM-350	50° × 38°	4.3 mm	F/1.0
	DM-324	24° × 18°	9.1 mm	F/1.0
	DM-312	12° × 9°	18 mm	F/1.0
	DM-695	95° × 72°	4.9 mm	F/1.0
	DM-650	50° × 38°	8.7 mm	F/1.0
	DM-624	24° × 18°	18 mm	F/1.0
	DM-612	12° × 9°	36 mm	F/1.0
E-Zoom	Continuous E-Zoom to 4x			
Spectral Range	7.5 μm to 13.5 μm			
Focus Range	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	Input: Four sets / 5V 10kΩ pull up Output: Two sets / relay output, 120mA max at 24 VDC / 24VAC			
Audio I/O	Bi-Directional Audio - connection - Terminal block			
Network				
Supported Protocols	IPv4, HTTP, UPnP, DNS, NTP, RTSP, RTP, TCP, UDP, ICMP, IGMP, DHCP, ARP			
Pan/Tilt Performance				
Pan Angle	Continuous 360°			
Tilt Angle	-10° – 190°			
Programmable Presets	256			
General				
Dimensions	Diameter: 207mm (8.15 in) Height: 300mm (11.8 in)			
Weight	3.8 Kg (8.38 lbs.)			
Input Voltage	12VDC, 24VAC, Universal PoE Injector			
Power Consumption	12VDC, 2.5A, 30W 24VAC, 2.36A, 57VA 55VDC (PoE), 0.62A, 34W			

Environmental	
IP Rating (Dust & Water Ingress)	IP66
Operating Temperature Range	-40°C – 55°C
Storage Temperature Range	-40°C – 85°C
Humidity	10 – 90%
Shock	IEC 60068-2-27
Vibe	IEC 60068-2-64

Compliance & Certifications	
FCC Part 15 (Subpart B, Class A)	
CE Marked	
RoHS	
IP66	
ONVIF Profile S	
WEEE (Waste Electrical and Electronic Equipment Directive)	
IEC 62368	

Visible Light 4K Camera	
Sensor Type	Full HD 4K 1/1.8"-type Exmor R CMOS
E-Zoom	Continuous E-Zoom to 8x

Sensitivity				
Visible lens 1	Lens FOV	HFOV = 110°	Color: 0.25 Lux (@ (f1.6 AGC On, 30FPS)	
		VFOV = 59°		
	Focal Length	2.8mm		B/W: 0.10 Lux (@ (f1.6 AGC On, 30FPS)
	F/#	F 1.6		
Corresponding Models	DM-392, DM-695, DM-350, DM-650			
Visible lens 2	Lens FOV	HFOV = 55°	Color: 0.25 Lux (@ (f1.6 AGC On, 30FPS)	
		VFOV = 30°		
	Focal Length	6mm		B/W: 0.10 Lux (@ (f1.6 AGC On, 30FPS)
	F/#	F 1.6		
Corresponding Models	DM-324, DM-624			
Visible lens 3	Lens FOV	HFOV = 36°	Color: 0.40 Lux (@ (f2.0 AGC On, 30FPS)	
		VFOV = 20°		
	Focal Length	12mm		B/W: 0.16 Lux (@ (f2.0 AGC On, 30FPS)
	F/#	F 2.0		
Corresponding Models	DM-312, DM-612			

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-to-date specs, go to [www.flir.com](http://www.flir.com)

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