



## 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		
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
	DM-392	92° × 69°	2.3 mm
	DM-350	50° × 38°	4.3 mm
	DM-324	24° × 18°	9.1 mm
	DM-312	12° × 9°	18 mm
	DM-695	95° × 72°	4.9 mm
	DM-650	50° × 38°	8.7 mm
	DM-624	24° × 18°	18 mm
DM-612	12° × 9°	36 mm	

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	Planned for future upgrade
Audio I/O	Planned for future upgrade

### Network

Supported Protocols	IPv4, HTTP, UPnP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, ICMP, IGMP, DHCP, ARP
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### Pan/Tilt Performance

Pan Angle	Continuous 360°
Tilt Angle	-10° – 190°
Programmable Presets	256

### General

Input Voltage	12 VDC, 24 VAC, 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)

### Visible Light 4K Camera

Sensor Type	Full HD 4K 1/2.3-type Exmor R CMOS	Sensitivity	
Visible lens 1	Lens FOV	HFOV = 110°	Color: 0.25 Lux (@ f1.6 AGC On, 30FPS)  B/W: 0.10 Lux (@ f1.6 AGC On, 30FPS)
		VFOV = 59°	
	Focal Length	2.8mm	
	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)  B/W: 0.10 Lux (@ f1.6 AGC On, 30FPS)
		VFOV = 30°	
	Focal Length	6mm	
	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)  B/W: 0.16 Lux (@ f2.0 AGC On, 30FPS)
		VFOV = 20°	
	Focal Length	12mm	
	F/#	F 2.0	
Corresponding Models	DM-312, DM-612		

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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