



M-Series

Premium Maritime Thermal
Night Vision System



See At Night – Better than ever before

If you boat at night, or even if you think you'd like to someday, then you need M-Series: FLIR's new line of premium thermal night vision systems.

FLIR thermal imagers use the latest technologies available to help you see clearly in total darkness. In fact, they're the best commercial maritime thermal night vision systems you can find outside of the Pentagon. It's no wonder, coming from the world leader in commercial thermal imaging systems – FLIR.

M-Series cameras feature:

- **Clearer, most detailed thermal imagery** – M-Series cameras deliver up to four-times the resolution of other systems, giving you clear, sharp images with detail you never thought possible in such an affordable thermal night vision system.
- **More than double the detection range** – The new M-series systems use the latest generation of thermal imagers from FLIR. Featuring the highest sensitivity, and more than double the range performance of current systems, M-Series cameras let you see more – and see farther – even in the dead of night. M-Series systems are offered with either standard resolution or high resolution thermal imagers.
- **Optional Lowlight TV camera** – Provides enhanced navigational abilities during twilight hours, when operating along intracoastal waterways, and near harbor entrances. Anywhere you can see a little, the lowlight camera will help you see more.
- **Color on-screen symbology** – Part of FLIR's exclusive Accu-Point control and display technology, M-Series cameras have detailed, 3D color on-screen symbology that gives you instant access to system status, position, and configuration.

For additional technical information, or to see a demonstration of this revolutionary new system, contact a FLIR representative today. You can also visit www.flir.com to watch product videos and see how thermal imaging can keep you on the water, night and day.

M-Series



Thermal Imaging Specifications	M-324XP	M-324L	M-625XP	M-625L	M-612L
Sensor Type	320 × 240 VOx Microbolometer		640 × 480 VOx Microbolometer		
FOV	24° × 18° (NTSC)		25° × 20° (NTSC)		12° × 9° (NTSC)
Focal Length	19 mm		25 mm		50 mm
E-Zoom	2x		2x & 4x		
Image Processing	FLIR DDE				
Daylight Imaging Specifications					
Detector Type	N/A	1/2" Interline Transfer Lowlight CCD	N/A	1/2" Interline Transfer Lowlight CCD	
Lines of Resolution		768 (H) × 494 (V)		768 (H) × 494 (V)	
Minimum Illumination		100 µlux (@ f/1.4)		100 µlux (@ f/1.4)	
FOV		Matched to IR		Matched to IR	
System Specifications					
Size	7" (D) × 11.2" (H)				
Weight	~ 9 lb				
Pan/Tilt Coverage	360° Continuous Pan +/-90° Tilt				
Video Output	NTSC or PAL				
Connector Types	BNC with BNC-to-RCA Adapter Included for Video Out				
Power Requirements	12 VDC to 24 VDC (-10%/+30%)				
Power Consumption	25 W Nominal; 50 W Max				
Environmental					
Operating temperature range	-25°C to +55°C				
Storage temperature range	-40°C to +85°C				
Automatic Window defrost	Standard				
Sand/dust	Mil-Std-810E				
Water Ingress	IPx6				
Shock	15 g Vertical, 9 g Horizontal				
Vibration	IEC 60945; MIL-STD-810E				
Lightening Protection	Standard				
Salt Mist	IEC60945				
Wind	100 knot (115.2 mph)				
EMI	IEC 60945				
Standard Package	Camera Head with 18-inch Cables for Power, Analog Video, and Ethernet; Joystick Control Unit; Operator Manual				
Warranty	2 Year				
Accessories	Dual Station JCU; Low Smoke, Zero Halogen Ethernet Cables; Standard cat 5e Ethernet Cables; Top-down Mounting Riser				
Range Performance†					
Detect Man (1.8 m × 0.5 m)	~1,500' (450 m)		~2,700' (820 m)		~4,900' (1.5 km)
Detect Small Vessel (4 m × 1.5 m)	~4,200' (1.3 km)		~1.4 mi (2.25 km)		~2.4 mi (3.9 km)

† = Actual object detection range performance may vary depending on camera set-up, environmental conditions, user experience, and type of display used. All specifications are subject to change without notice. Visit www.flir.com for the most up-to-date specifications.



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