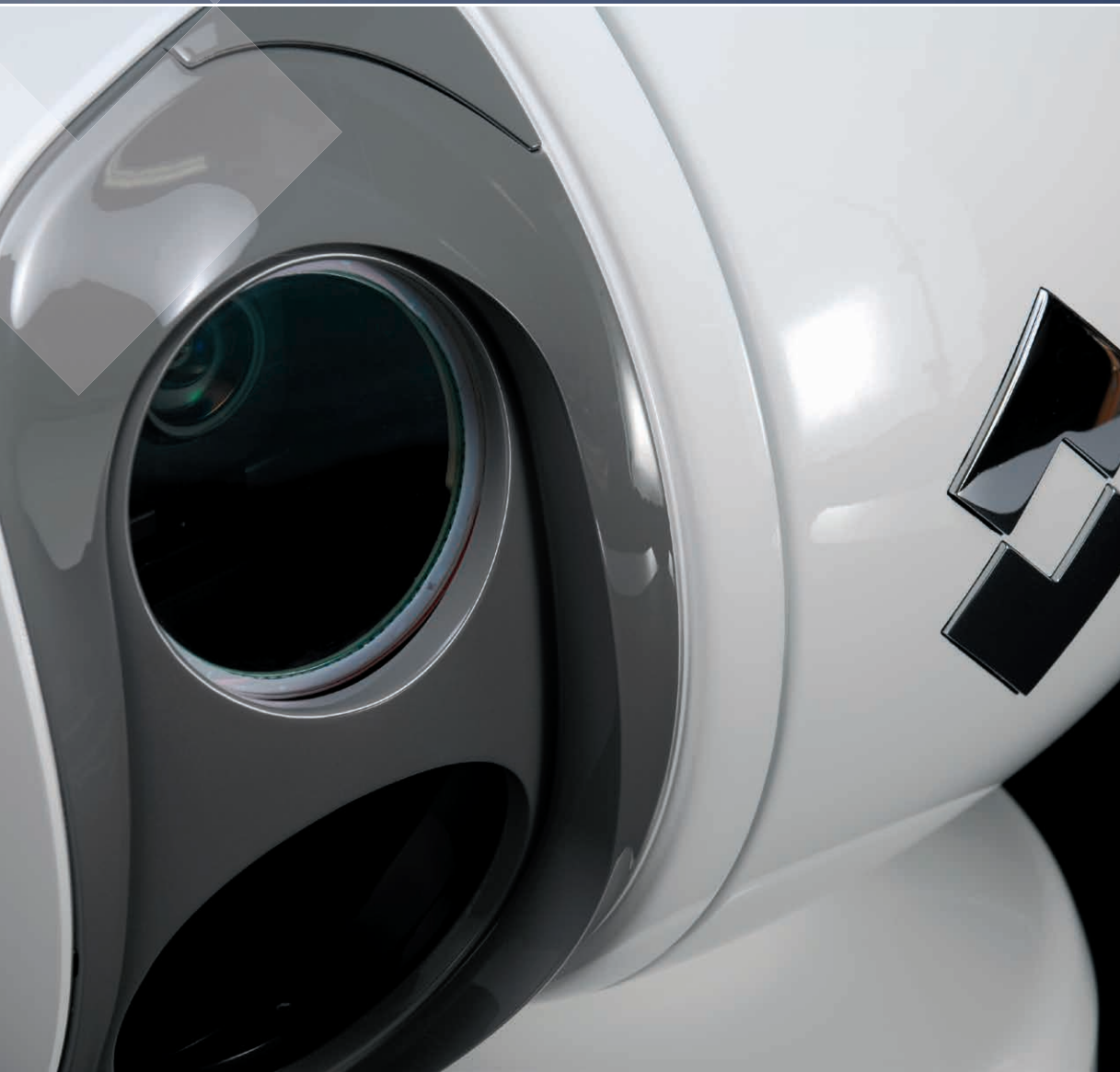


MV-Series

Long-range Multi-sensor Thermal Night Vision System



 **FLIR®**

MV-Series

Long-range Multi-sensor Thermal Night Vision System

Payload 1
MV-604C visible color camera

Payload 2
MV-Series Uncooled 640 x 480 thermal imaging camera

Payload 3
MV-604CL low-light b/w camera



Key Features of MV-Series:

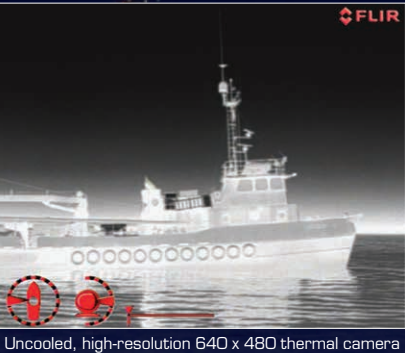
- **Pan/Tilt** enables you to continuously pan 360° and tilt +/- 90°, enhancing situational awareness.
- **Active gyro-stabilization** provides steady, long-range imaging — even in rough seas.
- **Radar tracking** identifies and tracks specified radar returns, enhancing vessel safety when visibility is low.
- **Video tracking** locks on and follows objects as long as they're in view of camera.
- **Picture-in Picture** mode (PIP) displays images from two sensors at once, one full screen and the other as a smaller inset.
- **Digital Detail Enhancement** (DDE) assures a crisp thermal image, even in scenes with extreme temperature dynamics.

Joystick Control Unit

Ergonomic, effortless control of all critical functions, even in rough conditions



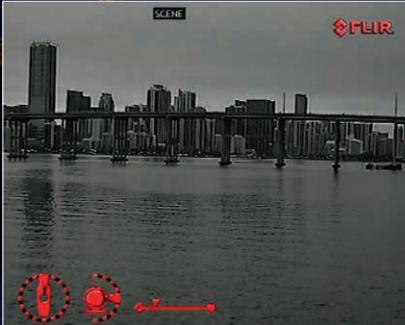
Three Payload Options



Uncooled, high-resolution 640 x 480 thermal camera



High resolution, 550-line daylight color camera



Low-light black and white camera

The MV-Series

FLIR MV-Series is an affordable, multi-sensor thermal imaging solution. The system is equipped with an uncooled Vanadium Oxide (VOx) detector that produces remarkable thermal images of 640 x 480 pixels, with a field of view between 25.3° and 4.1°. MV-604C contains a thermal imaging camera, plus a visible light color camera. MV-604CL adds an additional black & white visible low-light camera as a third payload.

Ball-Up/Ball-Down Configuration

The FLIR MV-Series can be installed in ball-up or ball-down position, giving you more flexibility when configuring it to your vessel.



Call 1.877.545.5094 for more information, or visit www.FLIR.com/MU-Series



Thermal (MWIR) Specifications		MV-604C	MV-604CL
Detector Type		Focal Plane Array (FPA)	
Video Refresh Rate		NTSC 30 Hz	
Field of View ¹		WFOV 25.3° x 18.5° to NFOV 4.1° x 3.1° (PAL)	
Focal Length		25-150 mm	
Optical Zoom		Continuous Optical Zoom, 28X optical zoom	
Image Processing		FLIR Proprietary Digital Detail Enhancement	
Visible Color Camera			
Lines of Resolution		550 TV Lines	
Minimum Illumination		0.25 Lux	
Field of View		~56° to 2° (H)	
Lowlight B/W Camera			
Lines of Resolution		N/A	570 TV Lines
Minimum Illumination			0.0002 Lux (front plate)
Field of View			25° to 2.5° (H) 10X optical zoom
System Specifications			
Pan-Tilt		Continuous 360° panning, proportional speed to 60°/s, 60°/s on home command Normal Installation (Ball up): +/-90°, proportional speed to 35°/s. Inverted Installation (Ball down): +/-90°, proportional speed to 35°/s	
Az. Range; Az. Velocity:			
El. Range; El. Velocity:			
LOS		Gyrostabilization	
Video Output		NTSC or PAL	
Connector Types		Analog BNC x2, Digital Video via Ethernet. Camera Head Output Power to JCU: Power over Ethernet (PoE) per IEEE 802.3af, 48V mode B PoE, RJ 45 connector	
Tracking Modes		Target (Correlation, Centroid) and Scene Electronic Stabilization	
Power			
Power Requirements		12 VDC to 24 VDC (-10%/+30% per IEC 60945)	
Consumption		100 W nominal; 200 W max	
Environmental Specification			
Operating Temperature Range		-32°C to +55°C per IEC 60945	
Storage Temperature Range		-40°C to +70°C per IEC 60945	
Automatic Window Defrost		Standard	
Sand/Dust		MIL-STD-810	
Water Ingress Rating		IP66	
Shock		15g vertical, 9g horizontal	
Vibration, Lightning Protection, Salt Mist, Wind, EMI		IEC 60945 100 knots	
Physical			
Camera Weight		60 lbs	
Camera Size		20" wide x 17.9" tall (nominal)	
Range Performance			
Detect Man		2.3 nm (Target size: 1.8m x 0.5m)	
Detect Small Vessel		6.8 nm (Target size: 4.0m x 1.5m)	
Other			
Warranty		1 Year	
Standard Package Contents		Camera Head with 18-inch Pigtails for Power, Analog Video x2, and Ethernet; Joystick Control Unit; Operator Manual, Low Smoke/Zero Halogen Ethernet Cable	

¹ Field of View describes the angular measure of a scene imaged with the given pixel array, expressed as degrees in horizontal by vertical directions.



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