M-618CS

Gyro-Stabilized, Long-Range Thermal Night Vision System

Gyro-Stabilized!

See At Night – Better and Farther Than Ever Before

The new M-618CS is the most advanced member of FLIR's industry-leading M-Series line of thermal night vision systems. The M-618CS combines long-range thermal night vision with a color zoom camera and gyro-stabilization, making it the most capable system in its class.

The M-618CS features:

- **High resolution thermal night vision –** 640 x 480 resolution, along with 2x and 4x E-Zoom, provide clear, detailed images from farther away than you ever thought possible, even in total darkness.
- **Extended range performance –** The M-618CS's 35 mm thermal lens can detect small vessels from over 2 miles away, giving you more time to see and avoid potentially dangerous situations.
- **Active gyro-stabilization –** Provides steady imagery, even in rough seas; this is critical for getting the most out of the M-618CS's long-range cameras.
- **Color TV camera with 10x optical zoom –** Continuous zoom can match the thermal camera's e-zoom for easy operation when switching between cameras.
- **Easy to install, integrate, and operate –** The M-618CS is easy to use and install thanks to its standard video format and cutting-edge Ethernet connectivity.
- **Rugged waterproof gimbal enclosure –** Provides continuous 360° pan and +/-90° tilt field of view for horizon-to-horizon coverage.
- **Color on-screen symbology –** Detailed, 3D color on-screen symbology gives you instant access to system status, position, and configuration.

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

M-Series

Thermal Imaging Specifications	M-618CS
Sensor Type	640 x 480 VOx Microbolometer
FOV	18° x 14° (NTSC)
Focal Length	35 mm
E-Zoom	2x & 4x
Image Processing	FLIR DDE
Color Daylight Imaging Specifications	
FOV	~58° (h) x 43° (v) w/ 10x optical zoom slaved to thermal camera
Lines of Resolution	530
Minimum Illumination	1.4 Lux
System Specifications	
Size	7" dia. x 11.4" ht.
Weight	~ 11.5 lb
Stabilization	2-Axis Gyro-Stabilization
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% per IEC 60945)
Power Consumption	25 W nominal; 50 W max
Environmental	
Operating temperature range	-25°C to +55°C (per IEC 60945)
Storage temperature range	-40°C to +85°C (per IEC 60945)
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	IEC 60945
Salt Mist	IEC 60945
Wind	100 knot (115.2 mph)
EMI	IEC 60945
Standard Package	Camera head with 18-inch pigtail cables for power, analog video, and Ethernet; Joystick Control Unit; Operator Manual
Warranty	3 Year (with product registration)
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 x 0.5 m)	~4,000' (1.2 km)
Detect Small Vessel (4 m x 1.5 m)	~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/maritime for the most up-to-date specifications.

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