



# 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 camera is designed to meet the following customer requirements:

- Port, Waterway and Coastal Security
- Maritime Safety at Sea
- Search and Rescue operations
- Law Enforcement at Sea
- Anti-Piracy & Threat detection
- Fleet & Platform protection
- Environmental protection

## 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 3.5 km's 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](http://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	
<b>Standard Package</b>	Camera head with 18-inch pigtail cables for power, analog video, and Ethernet; Joystick Control Unit; Operator Manual	
<b>Warranty</b>	3 Year (with product registration)	
<b>Accessories</b>	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)	1.2 km	
Detect Small Vessel (4 m x 1.5 m)	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](http://www.flir.com/maritime) for the most up-to-date specifications.

**FLIR Commercial Systems BV**  
Charles Petitweg 21  
4847 NW Breda  
The Netherlands  
Phone : +31 (0)765 79 41 94  
Fax : +31 (0)765 79 41 99  
e-mail : [flir@flir.com](mailto:flir@flir.com)  
[www.flir.com](http://www.flir.com)

**FLIR Systems, Inc**  
CVS World Headquarters  
70 Castilian Drive  
Santa Barbara, CA 93117  
USA  
Phone : +1 805 964 9797  
Fax : +1 805 685 2711  
e-mail : [sales@flir.com](mailto:sales@flir.com)

**FLIR Systems UK**  
United Kingdom  
Phone : +44 (0)1732 220 011  
Fax : +44 (0)1732 220 014  
e-mail : [flir@flir.com](mailto:flir@flir.com)

**FLIR Systems Spain**  
Spain  
Phone : +34 915 73 48 27  
fax : +34 915 73 58 24  
e-mail : [flir@flir.com](mailto:flir@flir.com)

**FLIR Systems Sweden**  
Sweden  
Phone : +46 (0)8 753 25 00  
Fax : +46 (0)8 753 23 64  
e-mail : [flir@flir.com](mailto:flir@flir.com)

**FLIR Systems Middle East, FZE**  
Dubai - United Arab Emirates  
Phone : +971 4 299 6898  
Fax : +971 4 299 6895  
e-mail : [flir@flir.com](mailto:flir@flir.com)