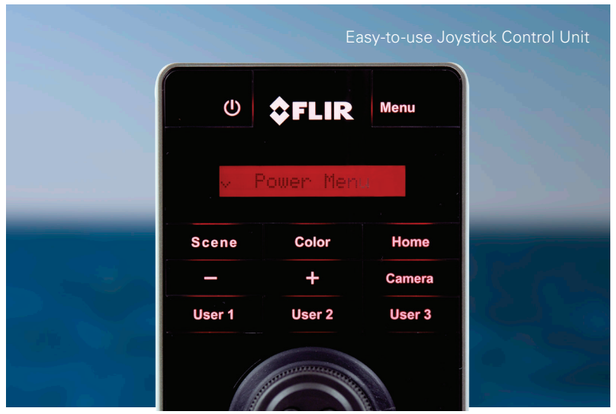
FLIR M400

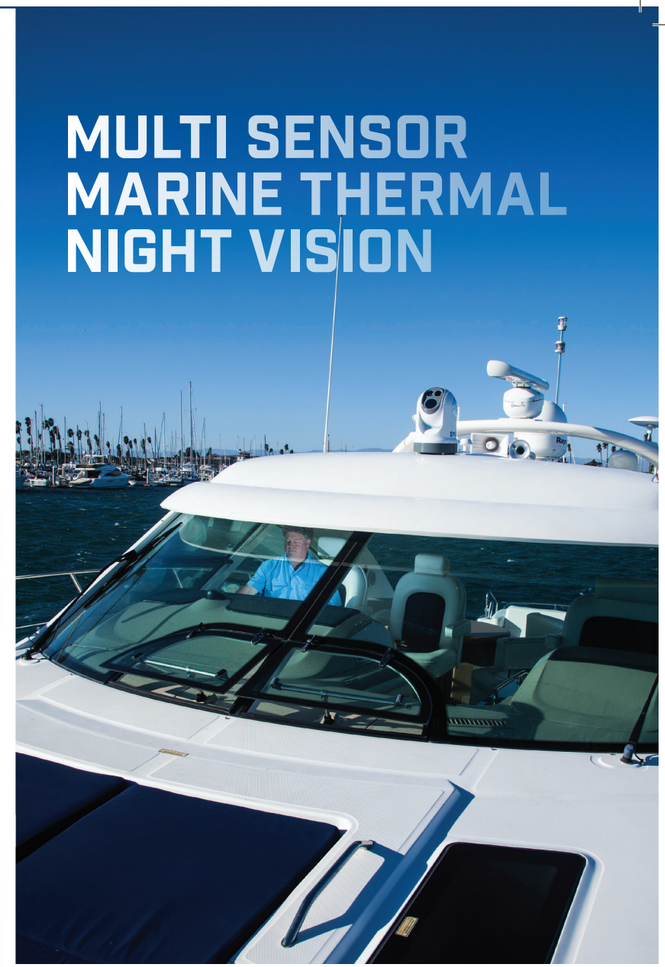
MULTI-SENSOR MARINE THERMAL NIGHT VISION

FLIR® | The World's Sixth Sense™

FLIR M400

The FLIR M400 thermal night vision camera is a versatile, high-performance pan/tilt marine camera system designed for best-in-class short and long range target identification. The M400's advanced 640x480 sensor delivers crisp thermal video images in total darkness and lowlight conditions. An integrated HD color visable camera and tight-beam LED spotlight augment target identification for added safety. M400 has a continuous optical thermal zoom lens (up to 4X) that allows operators to see other vessels and targets at longer ranges. Active gyro-stabilization ensures a steady image, plus radar tracking and optional video tracking keep potentially dangerous targets in view at all times.





SHORT AND LONG-RANGE DETECTION

Recognize marine traffic and key landmarks at night

- Continuous variable zoom allows you to easily identify vessels or navigation aids at distance
- Quickly recognize nearby buoys in channels or open water
- Detect key landmarks, such as islands or docks

THERMAL AND VISIBLE-LIGHT PAYLOADS

Combination thermal detection and visible identification

- Up to 4X Optical Thermal Zoom for 18° to 6° HFOV
- HD Color 30X Zoom provides 64° to 2.3° HFOV
- Illuminate and identify nearby targets with powerful LED beam

ENHANCED TARGET IDENTIFICATION

Operators can precisely locate and track objects

- Gyro-stabilization creates smooth video in rough water
- Radar integration lets the M400 follow specific radar targets
- Step up to video tracking with the M400XR and automatically follow objects in the camera's view

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THERMAL IMAGING SPECIFICATIONS	M400	M400XR
Sensor Type	640 x 480 Vox Microbolometer	
Field of View	18° to 6° HFOV / 1.5° HFOV with e-zoom	
Focal Length	35 mm (Wide) to 105 mm (Narrow)	
E-Zoom	1X to 4X	
Imaging Processing	FLIR DDE	
DAYLIGHT IMAGING SPECIFICATIONS		
Detector Type	Long range color daylight and low light viewing	
Resolution	High Definition up to 1080/30p	
Minimum Illumination	>0.5 lux at 50 IRE / .05 Lux in ICR Mode (B/W)	
Zoom	30X Optical Zoom	
Focal Length	129 mm to 4.3 mm	
Field of View	64° to 2.3° Optical HFOV / 0.2 NFOV e-zoom	
SPOTLIGHT SPECIFICATIONS		
Type	LED	
Lumens	580	
Beam	5° Divergence Angle	
SYSTEM SPECIFICATIONS		
Video Tracking	No	Yes
Pan/Tilt Coverage	360° Continuous Pan, +/-90° Tilt	
Video Output	Dual, independent H.264 Network Video Streams HD-SDI Lossless Digital Video Interface High Definition Serial Data Interface Broadcast-quality video output Provides HD video over coax cable Switchable Composite Analog Video Output (SD) NTSC or PAL	
Integration Options	IP Control by FLIR Joystick, PC,and Web Browser Integration with leading Multifunction Navigation Displays (Nexus SDK) FLIR Sensors Manager Integration RS-485/422 Serial Control by Pelco D NMEA 0183 Serial Communications (for radar tracking)	
ENVIRONMENTAL		
Operating Temperature Range	-20 to 55 deg C	
Storage Temperature Range	-50°C to 80°C	
Automatic Window Defrost	Standard	
OTHER		
Typical Configuration	Camera Head, Joystick Control Unit, Cables, & Operator Manual, Glass-filled top down riser	
Warranty	2 Year / 3 years with registration	

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