

# FLIR M400

MULTI-SENSOR MARINE THERMAL NIGHT VISION



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 visible 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.





Detail in zoom image



Zoom Before



Zoom After with Video Tracking



Easy-to-use Joystick Control Unit



# MULTI SENSOR MARINE THERMAL NIGHT VISION



## 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

# FLIR M400



<b>THERMAL IMAGING SPECIFICATIONS</b>	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	
<b>DAYLIGHT IMAGING SPECIFICATIONS</b>		
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	
<b>SPOTLIGHT SPECIFICATIONS</b>		
Type	LED	
Lumens	580	
Beam	5° Divergence Angle	
<b>SYSTEM SPECIFICATIONS</b>		
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)	
<b>ENVIRONMENTAL</b>		
Operating Temperature Range	-20 to 55 deg C	
Storage Temperature Range	-50°C to 80°C	
Automatic Window Defrost	Standard	
<b>OTHER</b>		
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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