

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



| 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 | |

AMERICAS

Nashua
9 Townsend West
Nashua NH 03063
877-545-5094

Corporate Headquarters

Portland
27700 SE Parkway Ave.
Wilsonville, OR 97070
USA
877-773-3547



The World's **Sixth Sense™**