



MARINE CAMERAS WITH
ACTIVE GYRO STABILIZATION

FLIR M300[®] Series

The M300 Series sets a new standard for safe marine navigation and situational awareness. Applying enhanced stabilization technology to high-performance visible, thermal, or multispectral imaging, M300 Series marine cameras deliver unwavering vision in high-stakes environments.

With options for any marine application, the M300 Series offers outstanding vision in the most grueling conditions. Three unique sensor combinations on the M300 Series give captains total control over their vision. The **M300C** captures high definition visible imaging and uses a 30x optical zoom to monitor distant targets. **M332** and **M364** dedicated thermal cameras capture excellent vision in complete darkness, blinding glare, and light fog. The **M364C** and **M364C-LR** combine visible and thermal sensors, leveraging FLIR Color Thermal Vision™ (CTV) and MSX™ for an elite level of awareness on the water.



THERMAL AND VISIBLE OPTIONS

The M300 Series offers single-sensor visible and thermal models, as well as dual-sensor, multispectral systems.

RUGGED DESIGN

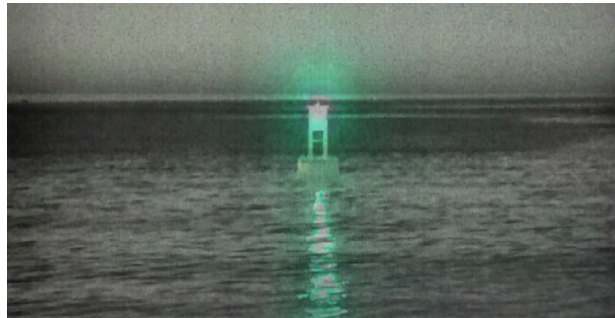
Designed to withstand punishing weather and high seas with robust shock protection and an IP56-rated housing.

TOTAL CONTROL

Active gyro-stabilization and continuous 360° panning offer complete awareness in any direction.

SEAMLESS INTEGRATION

Exceptional connectivity with navigation displays from leading marine electronic brands and security systems.



SAFER NAVIGATION

The M300 Series makes nighttime navigation even safer and less stressful. FLIR thermal technology gives captains the power to see clearly in total darkness, glaring light, and light fog.

FLIR COLOR THERMAL VISION[®]

Exclusive FLIR Color Thermal Vision blends visible camera details with a thermal image, overlaying vital color imagery that allows captains to positively identify navigation aids and other vessels within the thermal scene.



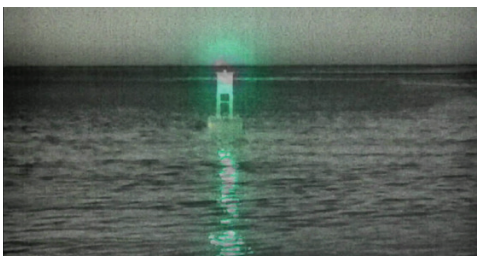
| | M300C | M332 | M364 | M364C | M364C LR |
|----------------|-------------------------------|-----------|-----------|-------------------------------|-------------------------------|
| Thermal Sensor | N/A | Boson 320 | Boson 640 | Boson 640 | Boson 640 |
| Visible Camera | Low Light HD Visible 30x Zoom | N/A | N/A | Low Light HD Visible 30x Zoom | Low Light HD Visible 30x Zoom |



**PREMIUM MULTISPECTRAL
MARINE CAMERAS WITH ACTIVE
GYRO-STABILIZATION**

FLIR M364C M364C LR

Featuring a high definition low light camera and one of the most advanced FLIR thermal imaging cores, the M364C and M364C LR provide an elite level of awareness on the water. Both cameras use multispectral imaging to deliver exclusive FLIR Color Thermal Vision™ (CTV) technology when used with Raymarine Axiom™ MFDs. Color Thermal Vision blends visible camera details with a thermal image, overlaying vital color imagery that allows captains to positively identify navigation aids and other vessels within the thermal scene. Outstanding imaging performance and enhanced gyro-stabilization make the M364C and M364C LR indispensable tools for law enforcement professionals, commercial mariners, and serious recreational boaters.



ELITE AWARENESS WITH MULTISPECTRAL IMAGING

Thermal and visible imaging featuring FLIR Color Thermal Vision and MSX®

- FLIR Boson 640 × 512 thermal sensor
- Thermal imaging detects objects in complete darkness, glare, and light fog
- Integrate the M364C with Raymarine Axiom and take advantage of FLIR Color Thermal Vision and MSX multispectral imaging.
- Color Thermal Vision blends thermal and the low light visible camera so captains can easily identify color details like navigational lights and navigation aids



HIGH DEFINITION NAVIGATION

Low light HD visible imaging sensor and long-range zoom offer enhanced target identification.

- Better than binoculars, the M364C with 30x optical zoom and image stabilization delivers superior long-range imaging and positive target identification
- Ultra-low light camera technology provides visible imagery in the most challenging lighting conditions
- Overlay AIS targets, chart objects, and waypoints in real time when combined with Raymarine Axiom and award-winning ClearCruise™ augmented reality technology



A STEADY VIEW IN ROUGH SEAS

Steady, stable viewing in heavy seas keeps eyes on-target.

- Two-axis mechanical stabilization virtually eliminates the effects of pitch, heave, and yaw
- Horizontal stabilization automatically keeps the camera positioned in the same direction as the vessel turns
- Integrated AHRS (Attitude Heading Reference Sensor)

SPECIFICATIONS

| Thermal Camera | M364C | M364C LR |
|-------------------------------|--|---------------|
| Detector Type | 640x512 VOx Microbolometer | |
| Video Refresh Rate | 30 Hz or <9 Hz | |
| Field of View | 24 ° x 18 ° | 18 ° x 13.5 ° |
| Focal Length | 18 mm | 25 mm |
| Focus | Fixed 12 ft (3m) to infinity | |
| Optical Zoom | N/A | |
| E-Zoom | 4x Continuous | |
| Image Processing | FLIR Proprietary Digital Detail Enhancement | |
| Visible Camera | | |
| Detector Type | 1/2.8" Exmor R CMOS | |
| Lines of Resolution | High Definition up to 1080/30p | |
| Minimum Illumination | 0.1 lux (50 IRE, 1/30s, ICR off, slow shutter off, high sensitivity off) / 0.0008 lux (30 IRE, ICR on, slow shutter 1/4s, high sensitivity on) | |
| Zoom | 30x Optical Zoom | |
| E-Zoom | 12x | |
| Focal Length | 129 mm to 4.3 mm | |
| Field of View | Optical 63.7° x 35.8° WFOV to 2.3° x 1.29° NFOV | |
| System Specifications | | |
| Gyro Stabilized | Yes | |
| ClearCruise Augmented Reality | Yes, with Raymarine Axiom | |
| Pan/Tilt Adjustment Range | 360° Continuous Pan, +/- 90° Tilt | |
| Analog Video Output | NTSC | |
| Analog Video Connector Types | BNC | |
| Network Video Output | Dual H.264 IP Network Video Streams | |
| HD-SDI Lossless Video Output | Yes | |
| Power Requirements | 12 to 24 VDC | |
| Power Consumption | 41 W typical, 56 W typical (with heaters on.) Note: FLIR recommends using a 75 W power supply | |

| Environmental | M364C | M364C LR |
|-----------------------------|--|----------|
| Operating Temperature Range | -13°F to +131°F (-25°C to +55°C) | |
| Storage Temperature Range | -30°F to +158°F (-30°C to +70°C) | |
| Automatic Window Defrost | Standard at Power-Up | |
| Sand/Dust Ingress | Mil-Std-810E or IP6X | |
| Water Ingress | IPX6 (heavy seas, power jets of water) | |
| Shock | 15g vertical, 9g horizontal | |
| Vibration | IEC60945 | |
| Lightning Protection | Standard | |
| Salt Mist | IEC60945 | |
| Wind | 100 knots (115.2 MPH) | |
| EMI | IEC60945 | |

| Physical | | |
|---------------------|---|------------------|
| Weight | 6.3 kg (13.9 lb) without mounting riser; 6.75 kg (14.9 lb) with mounting riser. | |
| Size | Camera: Base diameter: 222.2 mm (8.7 in.) Height: 328.3 mm (12.9 in.) Camera attached to mounting riser: Base diameter (with seal): 254.0 mm (10.0 in.) Height: 365.5 mm (14.4 in.) | |
| Range Performance | | |
| Person in the Water | 2,700ft (823m) | 4,900ft (1,494m) |
| Small Vessel | 1.2nm (2.2km) | 2.1nm (3.9km) |

