Marine high definition camera with active gyro-stabilization

FLIR M300C™

Combining a high-performance visible marine camera with long-range optical zoom capability, the M300C offers positive target identification for law enforcement, commercial, and recreational applications. Advanced gyro-stabilization provides steady imaging in rough sea conditions and allows the M300C to monitor targets or hazards over long distances continuously. Exceptional low light performance from the M300C gives captains enhanced awareness once the sun dips below the horizon.

www.flir.com/m300-series

HIGH DEFINITION NAVIGATION

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

- Better than binoculars, the M300C 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

Stable viewing in heavy seas keeps eyes on-target.

- Two-axis mechanical stabilization virtually eliminates the effects of pitch, heave, and yaw
- Electronic stabilization minimizes low frequency rumble and vibration
- Integrated AHRS (Attitude Heading Reference Sensor)
- Horizontal stabilization automatically keeps the camera on scene as you maneuver.

SEAMLESS INTEGRATION

Exceptional connectivity with navigation and security systems.

- Optional joystick control unit and integration with multifunction navigation displays
- ONVIF-compliant for PTZ security camera functionality
- H.264 IP video stream and HD-SDI lossless digital video interface
- Composite analog video (SD) for integration into legacy displays

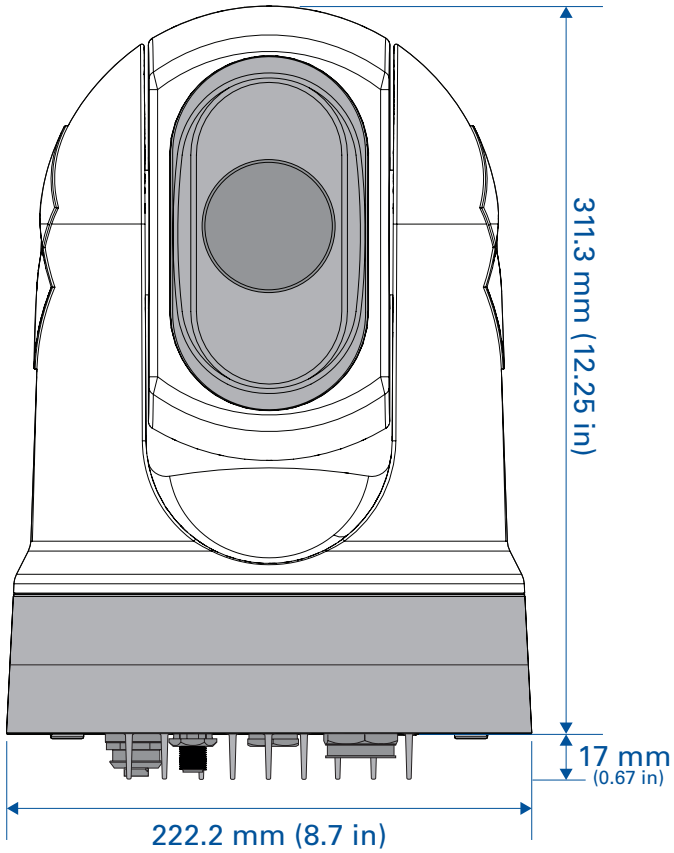
SPECIFICATIONS

Main 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	30× 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 AR	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	Single H.264 IP Network Video Stream
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	
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.)



Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com

CORPORATE HEADQUARTERS
FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
PH: +1 866.477.3687

NASHUA
FLIR Maritime US, Inc.
9 Townsend West
Nashua, NH 03063
USA
PH: +1 603.324.7900

BELGIUM
FLIR Systems BVBA
Luxemburgstraat 2, 2321
MEER
BELGIUM
PH: +32 (0)3 287 87 10

www.flir.com
NASDAQ: FLIR

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