

First Mate MS

Ultra-Compact Thermal Night Vision Camera





See at night.

FLIR's First Mate family is the most popular line of handheld marine thermal night vision cameras in the world. They give every boater the power to see clearly in total darkness.

The NEW First Mate MS uses the same thermal imaging technology as FLIR's best-inclass Navigator II, Voyager II, and M-Series thermal night vision systems, but it's even smaller, lighter, and more affordable than ever before.

First Mate MS makes pictures from heat, not light, to help you see landmarks, bridge abutments, and other vessels clearly in all light conditions from daylight to complete darkness.

Thermal night vision improves your ability to see rocks, buoys, floating debris, and even helps you find people in the water when just a few minutes can mean the difference between life and death.

Key features of the First Mate MS include:

- Ultra-Compact, Easy-to-Use Design
- Lightweight Only 12 Ounces
- Rugged All-Weather Design
- IP-67 Rated
- Choice of Resolutions (240 x 180 or 320 x 240)
- 2x Digital Zoom (MS 324 only)
- Freeze Frame (MS 224 only)
- Simple Three-Button Operation
- LED TaskLight
- Long-Life Rechargeable Li-lon Battery

First Mate MS provides go-anywhere thermal night vision for everyone on the water. For additional technical information, or to see a demonstration of this revolutionary new handheld thermal night vision camera, contact your FLIR representative today.

You can also visit www.FLIR.com to watch product videos, and see how thermal imaging can help you see at night.

First Mate MS





System	MS 224	MS 324
Detector Type	240 × 180 VOx Microbolometer	320 × 240 V0x Microbolometer
Focal Length	19 mm	
Field of View (H × W)	24° × 18°	
Waveband	7.5 - 13.5 µm	
Freeze Frame	Yes	No
Digital E-Zoom	No	2x
Start-up from Stand-by	<5 seconds	
Focus	Automatic	
Diopter Adjustment	+2	
USB Port	Software Updates/Upgrades	
TaskLight	LED	
Audible Alert	Indicates Camara On/Function Change	
Image Presentation		
Built-In Viewfinder Display	Color VGA LCD Display	
Polarity/Detection Palettes	White Hot; Black Hot; Marine Red	
Video Output	NTSC or PAL Composite Video; 9 Hz Refresh Rate	
Physical		
Weight (with battery)	12 oz (340 g)	
Size $(L \times W \times H)$	6.70" x 2.31" x 2.44" (172 x 58.7 x 62 mm)	
Fixed Use	Standard Tripod Mount	
Standard Warranty	2 Year	
Power		
Battery Type	Internal Camera Battery/Li-Ion	
Battery Recharging	USB Cable for Internal Battery Charging; Charging Cradle (optional)	
Battery Life (Operating)	5 to 7 Hours (nominal)	
Environmental		
Rating	IP-67	
Operating Temperature	-4°F to 122°F (-20°C to 50°C)	
Camera Package Includes:	Maritime Handheld Thermal Night Vision Camera, Wrist Strap, USB Cable, Product CD; Charging Cradle (optional), Soft Carrying Pouch (optional)	
Range Performance		
Detect Man-Sized Target (1.8 m × 0.5 m)	~1,050 ft (320 m)	~1,476 ft (~450 m)
Detect Small Vessel (4.0 m × 1.5 m)	~2,940 ft (895 m)	~4,200 ft (~1.23 km)
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Actual range may vary depending on camera set-up, environmental conditions, user experience, and display method. All specifications are subject to change without notice. Visit flir.com for the most up-to-date specifications.



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