

HIGH DEFINITION LWIR TECHNOLOGY

- ↘ Catherine MP's combination of functionality, long range performance and extended situational awareness makes it the current UK preferred in-service Thermal Imager with the British Army.
- ↘ This high definition TI with megapixel resolution offers flexibility and reliability where extreme performance is demanded on land, sea and air platforms.



OPTRONICS

CATHERINE MP

Compact High Performance Megapixel Thermal Imager





OPTRONICS

CATHERINE MP

Compact High Performance Megapixel Thermal Imager

APPLICATIONS

- Vehicle Gunner or Commander Sights
- Mast Mounted Systems
- Airborne & Naval Surveillance & Targeting
- Border & Site Surveillance

Features and Benefits

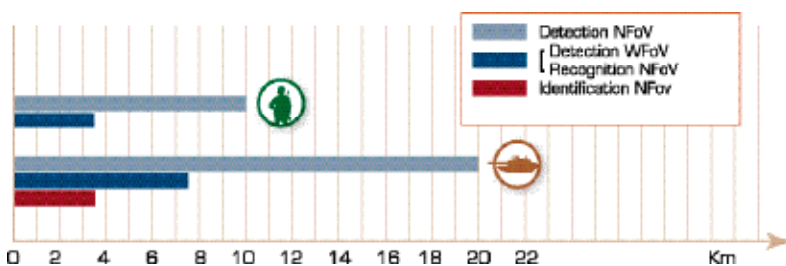
- 3rd Generation Long Wave Staring Array: best in-class range performance and quality.
- 8-10 μ m: unaffected by battlefield obscurants and solar dazzle.
- SXGA (1280 x 1024) and standard video formats: provides uninterrupted high definition TI capability and allows retrofit into existing systems.
- High boresight accuracy: ensures first hit performance for direct, indirect and joint fire targeting.
- Unique scene based non interruptive high resolution non uniformity correction: enhanced image quality with uninterrupted video ensures no operator distractions during field engagements.
- Catherine MP is the smallest and lightest megapixel TI available.
- Networked battlefield capability: improves battlefield situational awareness.

TECHNICAL SPECIFICATION

Thermal Imager (cooled)

Spectral Band	8-10 μ m		
Resolution	1280 X 1024		
• Telescope Options	Variant 1	Variant 2	
	NFOV	5° x 4°	3.5° x 2.8°
	WFOV	15° x 12°	10.5° x 8.4°
Electronic Zoom	x4	x4	
• Thermal Sensitivity	NETp<25mK		
• Weight	7.9 kg		
• Size	Variant 1	215 x 150 x 280 mm	
	Variant 2	215 x 150 x 330 mm	
• Analogue Output	625 line 50 Hz or		
	525 line 60 Hz (STANAG 3350 Class B or C) VESA SXGA (1280 x 1024)		
• Digital	8 or 14 BIT High Speed Digital Serial O/P		
• Non-uniformity Correction	Quadratic		
• User Control	RS422, Ethernet CANBUS		
• Power Supply	18-32 VDC, 32W nominal		
• Cooling	Stirling Cycle Integrated Rotary Cooler		

Range Performance for 3.5°/10.5° FOV



Environmental Conditions

- Operating Temp. -40°C to 55°C
- Environmental MIL STD 810
DEFSTAN 00-35
- Electromagnetic DEFSTAN 59-411
MIL STD 461
- Options
FOV
Image Stabilisation
Discriminative Processing
Automatic Target Detection