

PanthIR

Long Wave Infrared (LWIR) Uncooled Continuous Zoom Camera

PanthIR uncooled thermal camera has been future proofed by design, being optimised for both 17 μ m and 12 μ m focal plane arrays including HD formats. The ruggedised camera uses a proven zoom mechanism to provide up to 10x continuous optical zoom allowing eyes on tracking of targets at all times.

Key Features

- Optimised for 12 μ m Focal Plane Arrays
- x10 Continuous Zoom
- HD Ready*
- Long range performance—MBT Detection @ 14.5 km
- Automatic Athermalisation

Applications

- Fixed Position Border Surveillance
- Remote Weapon Stations
- Vehicle Mounted Surveillance
- Anti-UAS platforms



Remote Weapon Station



Border Surveillance



Anti-UAS system

Lens Parameters

Focal Length	19mm WFOV 190mm NFOV
Zoom Ratio	x10
F Number	F/1.3
Close Focus Range	5 metres
Optical Coating	Hard Carbon

Field of View

		HFOV (°)
640 x 480 12µm	NFOV	2.3°
	WFOV	22.9°
640 x 480 17µm	NFOV	3.3°
	WFOV	32.0°
1024 x 768 12µm	NFOV	3.7°
	WFOV	35.8°
1280 x 1024 12µm	NFOV	4.6°
	WFOV	44.0°

Sensor Parameters

Spectral Band	7.5 - 14µm
Resolution	Various options
Pixel Pitch	17µm or 12µm
NETD	<80mK*

* Core dependent

Power Requirements

Power Source	MIL-STD-1275
Power Range	16-50W
Power at Steady State	< 5W

Features & Capabilities

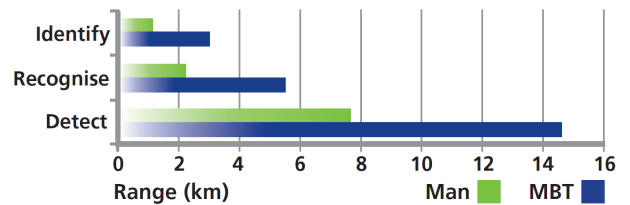
- White Hot / Black Hot
- Electronic Zoom
- Non-uniformity correction
- Automatic athermalisation

Electronic Formats

Video Outputs NTSC or PAL;

Communications RS 232/422/485

Range Performance (for 12µm sensor)



Mechanical Interface

Weight	<5kg
Size	164mm dia. x 275mm
Custom mounting interfaces available on request	

Environmental Specifications

Operating Temperature	-46°C to + 70°C
Storage Temperature	-51°C to +71°C
Vibration	MIL-STD-810G
Mechanical Shock	MIL-STD-810G
Solar Radiation	MIL-STD-810G
Sealing	IP67

For technical information contact us at:

Phone: +44 (0) 1745 588000
sales@uk.qioptiq.com
www.excelitas.com

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