



HIGH PERFORMANCE MWIR THERMAL IMAGING CAMERA WITH CONTINUOUS ZOOM LENS

The company's latest thermal imaging camera uses the latest staring focal plane technology to provide high performance passive Mid Waveband Infra-Red (MWIR) imaging in day, night and poor visibility for land, sea and airborne operations.

The camera uses the standard definition television (SDTV) resolution Hawk MCT detector array, manufactured using a proprietary MOVPE on GaAs process. This high performance detector is coupled with our latest generation of advanced image processing electronics to achieve superior image quality.

The continuous zoom lens has been specifically developed for the system and offers very wide fields of view for rapid surveillance while enabling very long identification ranges by rapidly zooming in to a narrower field of view.

An optional integrated microscan module provides 1.3 Megapixel resolution and enhanced range performance using full resolution digital zoom technology.

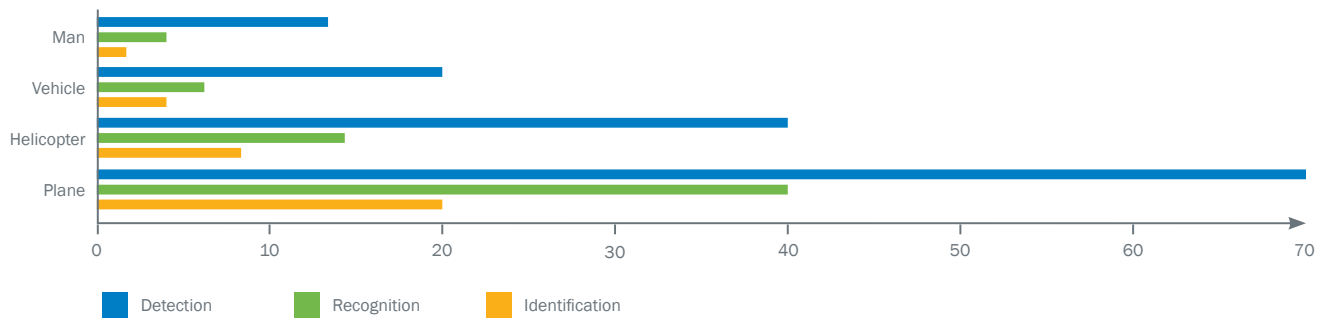
The SLX-Hawk 2:24cz camera has been designed as a compact, high performance unit which can be applied to a wide range of thermal imaging applications by system integrators and OEMs.

KEY BENEFITS

- Low cost, high performance fully integrated solution
- Optional microscan providing 1.3 Megapixel resolution
- Ease of system integration
- Supports multiple analogue and digital video standards
- Low through-life cost of ownership
- Designed, developed and manufactured in the UK
- 'Dual Use' rated.

SLX HAWK

RANGE PERFORMANCE (KM)



TECHNICAL SPECIFICATION

Operating waveband	3µm-5µm (MWIR)
Resolution	640 x 512 pixels (1280 x 1024 with optional Microscan)
FOV	24 x 19.2 degrees to 1.8 x 1.44 degrees
Noise Equivalent Temperature Difference (NETD)	17mK Typical
Non-uniformity correction	User selectable 1, 2 or 3 point NUC with internal thermal reference
User control	RS422

Video	625 line 50Hz 525 line 60Hz RGB VESA
Optional digital output	16 bit uniformity corrected full dynamic range or 8 bit video
Dimensions (L x W x H)	471mm x 112mm x 108mm
Power supply	28V DC (Max 36V, Min 18V)
Steady state power consumption	<35w
Weight	5.6kg max
Operating temperature	-30°C to +55°C
Environmental	DEFSTAN 00-35, MIL STD 810E
Reliability	> 22,000 hours (GF)

FEATURES

- Programmable configuration
- Auto or manual gain and offset
- User definable automatic gain and offset region
- User selectable image orientation permits camera to be mounted in any position
- User definable text and graphic displays
- Colour text and graphics in VESA video mode
- Colour image mapping with user definable palette
- Freeze frame
- Up to x16 continuous digital zoom and pan
- Four programmable NUC tables
- Auto calibration mode for fully autonomous ready-to-go operation
- Reduced image areas for higher frame rate.

APPLICATIONS

The product is in-service and used extensively in the following applications:

- Border surveillance and security
- Naval directors, gun fire control and surveillance
- Maritime security
- Missile directors
- Air Defence Systems
- Major sporting events
- Wildlife filming.