



Optronics Systems

SLX HAWK-S **HIGH PERFORMANCE MWIR THERMAL IMAGING CAMERA WITH CONTINUOUS ZOOM LENS**

The SLX Hawk-S has been developed as a smaller form-factor to be a direct drop-in replacement for the heritage naval thermal imager market. The SLX Hawk-S dramatically upgrades and improves the range performance and image quality of the traditional naval thermal imagers.

The camera uses the standard definition television (SDTV) resolution Hawk MCT detector array, manufactured using Selex ES's 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 integrated microscan module is optional, to provide 1.3Megapixel resolution and enhanced range performance using full resolution digital zoom technology.

The SLX-Hawk-S 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

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

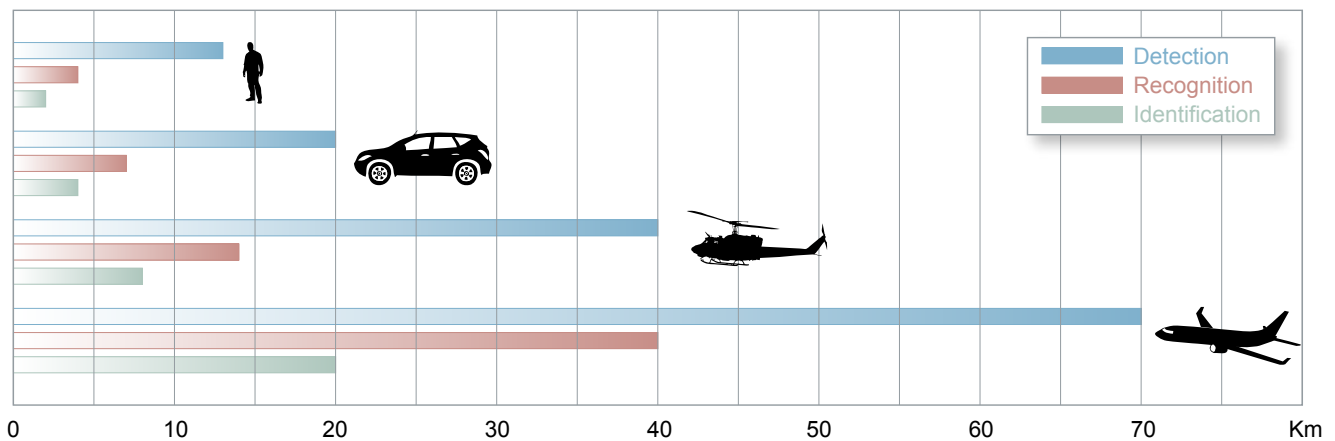


FEATURES

- 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

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)	388mm x 112mm x 155mm
Power supply	28V DC (Max 36V, Min 18V)
Steady state power consumption	< 35w
Weight	7.25kg max
Operating temperature	-30 °C to +55 °C
Environmental	DEFSTAN 00-35, MIL STD 810E
Reliability	> 22,000 hours (GF)



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