



Optronics Systems

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

Selex ES'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 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 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

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

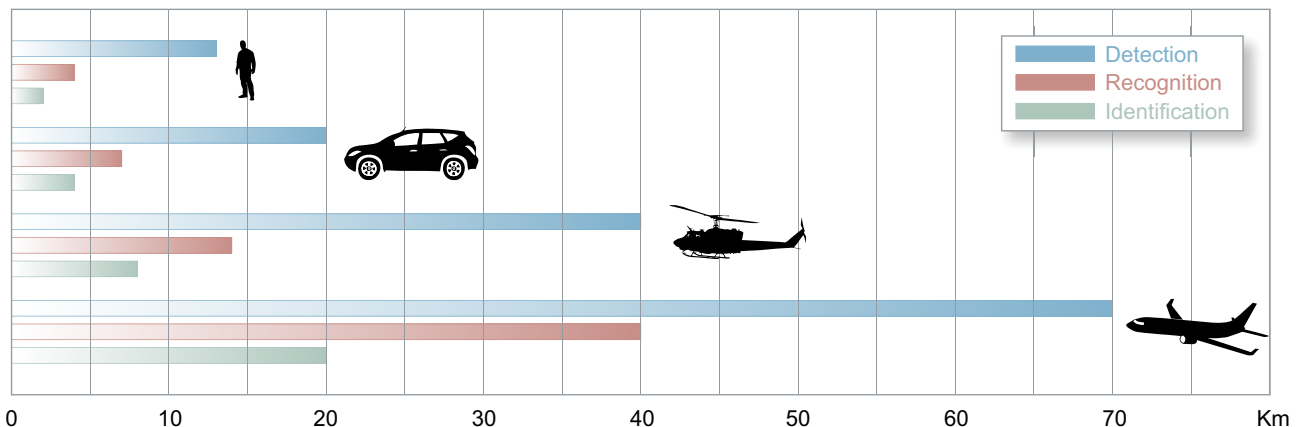


FEATURES

- 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 SPECIFICATIONS

| | |
|------------------------------------------------|------------------------------------------------------------------------|
| 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) |



For more information please email infomarketing@selex-es.com

Selex ES Ltd - A Finmeccanica Company

First Avenue - Millbrook Industrial Estate - Southampton - Hampshire - SO15 0LG - Tel: +44 (0) 2380 702300

This publication is issued to provide outline information only and is supplied without liability for errors or omissions. No part of it may be reproduced or used unless authorised in writing.

We reserve the right to modify or revise all or part of this document without notice.

2014 © Copyright Selex ES Ltd

www.selex-es.com

LND MM07757 4-14