

Optronics Systems

HORIZON SD/HD THERMAL IMAGING CAMERA

The Horizon Medium Wave Infra-Red (MWIR) thermal imaging camera employs the latest focal plane array technology to meet long-range surveillance and target identification requirements.

Utilising a modular Integrated Detector Cooler Assembly, the camera is fitted with either Standard Definition (SD) or High Definition (HD) detector arrays. This design allows for rapid assembly and ease of maintenance.

Horizon HD provides a wider Field of View (FoV) for greater Situational Awareness, whilst delivering a narrower IFoV for longer range target identification and engagement. Horizon cameras have been specifically designed with very long life cooling engines of 50,000 hours. This increases reliability and reduces through-life costs.

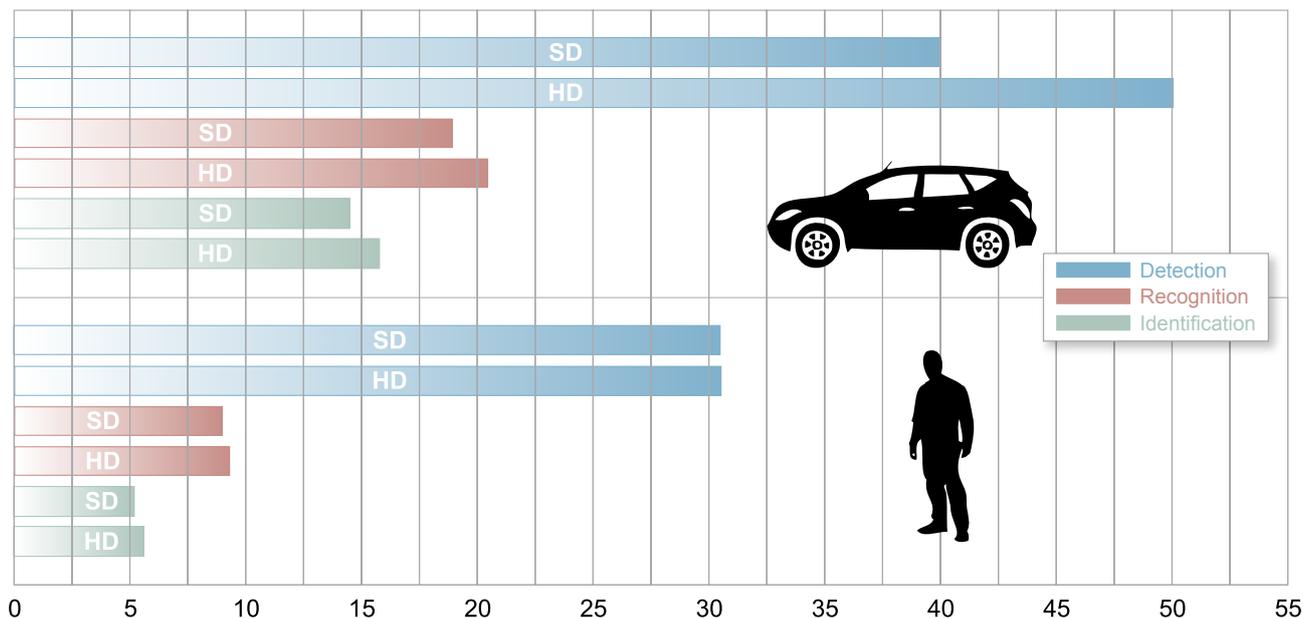
KEY BENEFITS

- Designed, developed and manufactured in the UK
- 'Dual Use' rated
- Very low through-life cost - 50,000 hours cooling engine life
- Ease of integration – video and communication over Ethernet
- Multiple digital and analogue video outputs
- ONVIF control and video interface
- Latest image processing
 - Turbulence mitigation
 - Image stabilisation
 - Local area contrast enhancement
- Ultra narrow field of view: 0.6°
- Qualified to operate from -40°C to +55°C
- Extended warranty options
- Finance options available
- Service provision contracts options

The Camera that Sees Further than You Can

TECHNICAL SPECIFICATION

Detector array resolution	640 x 512 (SD), 1280 x 720 (HD)
Detector pitch	16µm (SD), 12µm (HD)
FOV	7.3 x 5.9 degrees to 0.6 x 0.5 degrees (SD) 11.0 x 6.2 degrees to 0.9 x 0.5 degrees (HD)
Detector technology	CMT
Band	3.7µm - 4.95µm
F/Number	F/4
Focal length of continuous optical zoom	80-960mm
Comms	RS-422 Ethernet
Analogue video output	NTSC PAL (CCIR) HDTV 720p
Digital video output	HD-SDI Ethernet (H264, ONVIF)
Operating temperature	-40 °C to 55 °C
Weight	23kg
Size (L x W x H)	596.5mm x 299mm x 299mm
Power source	28VDC (18-32V)
Nominal power at steady state	<25W
Dynamic range enhancement	LACE Linear Edge enhancement
Image stabilisation	Yes
Turbulence mitigation	Yes
Auto focus	Yes
Cooling engine	Long life linear (50,000hrs)
Non-uniformity corrector	Built-in reference and quadratic NUC
E-Zoom	Interpolated (up to 8x)



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

Selex ES Ltd - A Finmeccanica Company

Southampton 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 MM07756 03-14