

Hawkeye Electro Optical Radar System (EOR)

Protect, Engage, Survive

CHESSE
DYNAMICS

A COHORT PLC COMPANY

The next generation, fully digital, high resolution, stabilized, compact, precision Electro-Optical radar system.

Key Features:

- Modular HD IR and DLTV cameras
- Built in ESA Radar
- Full digital architecture
- Ethernet interface
- High bandwidth brushless direct drive motion control
- Gyro-stabilized
- Integrated mega-pixel situational awareness camera
- Integrated dual channel digital video tracker
- Eye-safe Laser Range Finder (E-LRF)
- Optional camera wipers for all weather operations
- High reliability, long service life
- Suitable for wheeled, tracked and unmanned vehicles



“Provides outstanding precision targeting data for modern weapons and ammo, against surface, ground and air threats”

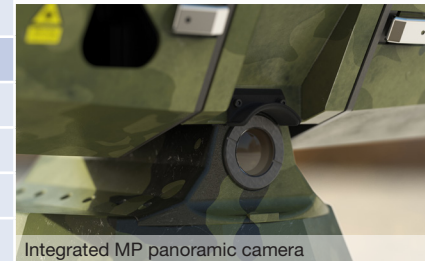
The importance of long range persistent air surveillance combined with optical and radar tracking has never been more essential in the Ground Based Air Defence environment. High resolution cameras combined with a stable platform provide high levels of optical target tracking accuracy, while the radar provides high detection probability and tracking for small air targets operating in the local area. Target data can be sent and received via the local Combat Management System to cue or directly control soft and hard kill assets.

Specifications

Thermal Camera	High Definition Infra-Red Thermal Imaging Camera Gen3
Detector	MWIR 3-5µm, resolution 1280 x 720 pixel pitch 10µm
Zoom ranges	1.47° HNFOV to 19.8° HWFOV optical continuous zoom + 2x and 4x digital
TV Camera	Full Color High Definition Daylight TV Camera
Detector	3.45µm pitch 2064 x 1544 resolution CMOS array
Zoom ranges	0.75 HNFOV to 36° HWFOV optical continuous zoom + 2x and 4x digital
Laser Range Finder (LRF)	High Repetition Rate Eye Safe Laser Range Finder
Wavelength/type	1570nm diode pumped Nd:YAG/OPO, Class 1M eye safe
Pulse rate/range	5 - 10Hz duty cycle, Range 100 - 20,000m target size dependent
Director	Dual Axis High Dynamic Direct Drive Stabilized Servo Tracking Director
Motion	Azimuth n x 360°, Elevation +85° to -35°, operational travel angles
Speed/acceleration	>=2rad/sec velocity and >=3rad/sec ² acceleration
Weight and size	187lbs including sensors, 30" H x 28.5" W x 24.5" D
Power	28V AC 60 Hz @1,800 watts
3D Radar	20° azimuth x 20° elevation field of view
Angular resolution	±1° azimuth x ±2° elevation
Search while track (SWT)	Tracking updated at 10Hz while radar intelligently searches FOV



Easy field servicing with removable covers and modular sensor architecture



Integrated MP panoramic camera

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