



Optronics Systems

COLIBRI **DAY/NIGHT FIRE CONTROL SYSTEM**

Building on over 50 years of experience in the production of targeting sights, Selex ES has developed a range of Fire Control Systems for vehicle and weapon systems featuring modular and scalable solutions that are easy to integrate on to any platform. COLIBRI has been designed to deliver accurate targeting capabilities for artillery platforms and tank turrets.

Incorporating the best proprietary technology in imaging modules and detectors, COLIBRI comprises of a sensor head - including a thermal imager, a TV CCD camera, an Eye-Safe Laser Range Finder and a FCS management computer - a console in a rugged, very compact enclosure with an overall weight of less than 15 kg.

APPLICATIONS

- Towed guns
- Turrets for armoured vehicles
- Upgrade of in-service AA Guns
- Remoted Weapon Stations (RWS) for light armoured and recce vehicles
- Missile launchers.

KEY FEATURES

- Delivers full Fire Control capability to firing platforms and artillery systems
- Incorporates Selex ES state-of-the-art thermal imaging modules and detectors
- Engages targets in all-weather conditions, day and night
- Modular, open architecture ensures customised growth such as full graphic overlay, gunner capability duplication to commander, extended ballistic computations
- Integrated FCS and Video Tracker (OPTIONAL).

TECHNICAL SPECIFICATIONS

THERMAL IMAGER (Selex ES ERICA FF)

Detector Type	CMT staring Focal Plane Array, 3rd Gen MWIR
Size	640 x 512
Sensitivity	15 mK Typical
Fields of View (FoV)	
WFOV	10° (H) x 8.0° (V)
NFOV	2.4° (H) x 1.9° (V)
Digital Zoom	2X - 4X
Image Enhancement	Digital Video processing
Video Output	CCIR 625/50 or RS 170

TV CAMERA + OPTICAL ZOOM

Detector	¼ Super HAD
Picture Elements	795 x 596
Horizontal Resolution	480 TV lines
CCD Sensitivity	0.5 lux colour with 64 integration frame 0.1 lux mono with 64 integration frame
Zoom Lens	Continuous from 2.3° to 51°
Focus Range	1.5 metre to infinity
Video Output	PAL

LASER RANGE FINDER (EYE-SAFE)

Wavelength	1.54 µm (eye-safe)
Pulse Rate	10 ppm (1Hz burst)
Cooling system	Air
Processing Range	100 to 10,000m
Resolution	5m

DIMENSION AND WEIGHT

Size (L x H x W)	410 x 190 x 325 mm
Weight (std)	< 15 kg

POWER

Supply	28 VDC (18-36 VDC)
Standard	MIL STD 704D

ENVIRONMENT

Standard	MIL STD 810E
Operating Temperature	- 30 °C to +55 °C
Storage Temperature	- 40 °C to +70 °C



Colibri installation for fixed border control station

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

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