LINX

Optronics Systems

HAND HELD ALL-WEATHER TARGET ACQUISITION SYSTEM

LINX is a multi-functional day/night handheld target locator which includes an uncooled thermal imager for all-weather observation and detection, two Field of View (FOV) colour TV channels for high definition observation and detection during daylight conditions, an eye-safe Laser Range Finder, a digital compass and Global Positioning System (GPS) provision housed in a compact lightweight unit used by dismounted soldiers and special forces.

LINX performs target acquisition through a target data record that provides target marker, azimuth, elevation, distance, global positioning and a target snapshot of the scene both in InfraRed (IR) and TV modes.

The target data record is transmitted to the C2 by wireless or wired technology. LINX is self-powered using Li-ion military rechargeable battery, AA lithium battery (+1.5V) or an auxiliary power connector for an external DC source is also available.

KEY FEATURES

- All-weather observation, detection and recognition through dust, smoke, fog, haze and dusty battlefield surroundings, applying Long Wave uncooled IR technology
- Target acquisition by means of a data record comprising target range, azimuth, elevation and a target snapshot of the scene
- Wireless transmission of the target acquisition data record to the soldier C2
- Eye-safe Laser Range Finder
- Digital magnetic compass.

INTEGRATION

LINX integrates all of the necessary functions required for a real “Commander’s Target Locator”: TV and IR cameras, GPS, digital compass, Laser Range Finder. It is designed to be “NET-centric”, i.e. integrated in a network via a wireless (but also wired) connection allowing the “Soldier System” to be in his centre with the possibility to exchange information (images and data) with the rest of the system.

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TECHNICAL SPECIFICATION

INFRARED CAMERA	
Field Of View (FOV)	8.8° x 6.6°
Reticule	Electronically programmable
Sensor	320 x 240 Uncooled
Bandwidth	8 to 12µm
Polarity	White hot/ black hot
Sensitivity	Better than 50mK

COLOUR TV NARROW FOV	
FOV	2.7° x 2.0°
Reticule	Electronically programmable
Sensor	Full video colour APS

COLOUR TV WIDE FOV	
FOV	8.8° x 6.6°
Reticule	Electronically programmable
Sensor	Full video colour APS

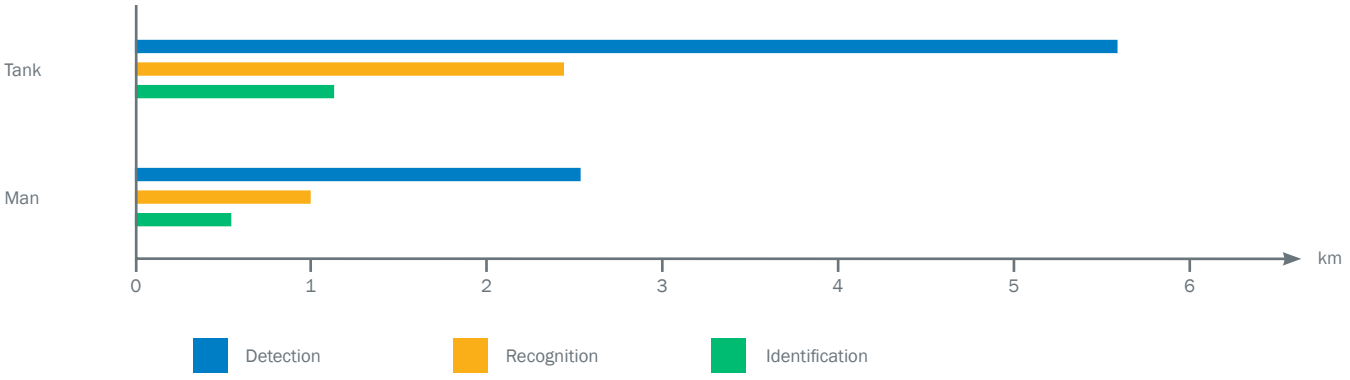
LASER RANGE FINDER	
Wavelength	1.55µm
Maximum Range	2500m vs Standard Nato target (2.3m x 2.3m)
Eye Safety	Class 1, IEC 60825 (2001)

DIGITAL MAGNETIC COMPASS AND GPS	
Precision in Azimuth	±1 deg
Precision in Elevation and Tilt	±0.5 deg
Elevation and Tilt Range	Up to ±45 deg
GPS	Code CA

INTERFACES	
Video Output	Colour VGA, USB
Power	Lithium ion rechargeable battery, or DC backup power wired through connector or AA/lithium batteries (+1.5V)

PHYSICAL CHARACTERISTICS	
Length	220mm
Width	230mm
Height	103mm (maximum)
Weight	2.5kg (including batteries)

IR RANGE PERFORMANCE (KM)



LEONARDO
LAND & NAVAL DEFENCE ELECTRONICS

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