ELECTRONICS DIVISION

LINX-LR

HAND-HELD TARGET ACQUISITION SYSTEM

LINX Long Range (LINX-LR) is a multi-functional hand-held target acquisition System which includes a zoom cooled thermal imager and a high definition colour TV channel for all-weather observation and detection, an eye-safe Laser Range Finder, a Digital Magnetic Compass, a Global Positioning System (GPS) receiver, BT and Wi-Fi.

LINX-LR is a compact lightweight unit used by dismounted soldiers and special forces.
It is designed to be "NET-centric", i.e. integrated in a network via a wireless (but also wired) connection allowing the user to exchange information (images and data).

LINX-LR is the Leonardo battlefield-oriented solution for Forward Observers in artillery, infantry and close air support scenarios. It is capable to detect, acquire and geo-locate targets during missions in an enhanced stituation awareness.

It is developed for several applications as:

- Night and Day Target Acquisition
- Target Location
- FO (Forward Observer)
- JTAC (Joint Terminal Attack Controller)
- FAC (Forward Air Control)
- Border Surveillance
- Coastal Surveillance

The system can operate both in a stand-alone mode and in conjunction with:

- BMS and C4I systems
- Software Defined Radio
- Combat Net Radio LoS or SATCOM

Those capabilities can be provided by Leonardo Company.

KEY FEATURES

The system integrates the following subsystems:

- Cooled MWIR IR camera
- 3.1 Mpixel 10x zoom TV Camera
- LRF module
- DMC module
- BT and Wi-Fi module
- GPS module
- Target Geo-Referencing capabilities
- Bi-ocular Visual Unit module (two SXGA OLED micro-display)
- Central Processing Unit
- Smart Android like Human-Machine Interface
- Video and Images record capability
- NIR Laser pointer (Optional)

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TECHNICAL SPECIFICATIONS

THERMAL CAMERA	VALUE
Sensor Type	CMT cooled, FPA
Spectral Band	MWIR (3-5µm)
Pixel Resolution	640x512, 16µm pitch
ZOOM FOV	2.4° to 24°
Digital zoom	2X

TV CAMERA	Value
Sensor Type	CMOS
Spectral Band	Visible and NIR
Pixel Resolution	3.1 Mpx
ZOOM FOV	2.4° to 24°
Digital zoom	2X

LRF	
Wavelength	1540 nm
Laser Classification	Eyesafe Class 1
Measuring Range	Up to 12000 m
Range Resolution	±2 m
Measuring Mode	single; 1 pps continuous

DMC	Range (deg/NATO mils)
Azimuth	360°/0.5° RMS
Elevation	± 90°/0.2° RMS

BLUETOOTH & WI-FI

- 2.4GHz

SATELLITE NAVIGATION SYSTEM

- It is based on GPS and GLONASS, it is compatible with all Worldwide Grid Systems

VISUAL UNIT

- Bi-ocular (vision with both eyes) compatible with wearing NBC mask
- It is composed by one 1280x1024 OLED micro-display
- The configuration of the visual unit doesn't require any adjustment from the operator

RECHARGEABLE LI-ION BATTERY

- More than 4 hours

SYSTEM INTERFACE

- External power supply
- Serial interface (RS232, RS422) for data exchange
- HDMI and composite video output
- USB, Ethernet for data and multi-media trasmission

WEIGHT

- 3 kg with battery

ENVIRONMENTAL SPECIFICATIONS

- LINX-LR is fully qualified for temperature, vibration, shocks and waterproofness according to MIL-STD-810G for hand held equipment and for EMC according to MIL-STD-461F
- It can operate at an ambient temperature between -20°C and +55°C
- It can be stored at an ambient temperature between -40°C and +70°C

- INCLUDED ACCESSORIES
- 2 Batteries set and battery charger
- Hard Transportation Case
- Cleaning kit
- Soft carry case with carry strap

OPTIONAL ACCESSORIES

- Tripod
- Kit interface cables

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MT000004 05-22

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