ELECTRONICS DIVISION

LINX-MR

HAND-HELD TARGET ACQUISITION SYSTEM

LINX Medium Range (LINX-MR) is a multi-functional hand-held target acquisition system which includes an uncooled thermal imager and two high definition colour TV channels for all-weather observation and detection, an eye-safe Laser Range Finder (LRF), a Digital Magnetic Compass (DMC), a Global Positioning System (GPS) receiver, BT and Wi-Fi.

LINX-MR 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 (or wired) connection allowing the user to exchange information (images and data).

LINX-MR 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 situational 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

All the above capabilities can be provided by Leonardo Company.

KEY FEATURES

The system integrates the following subsystems:

- Uncooled IR camera
- 3.1 Mpixel TV camera
- LRF module
- DMC module
- BT and Wi-Fi module
- GPS module
- Target Geo-Referencing capabilities
- Monocular with SXGA OLED micro-display
- Diopter adjustment
- 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	VOX, UNCOOLED
SPECTRAL BAND	LWIR (8-12 µM)
PIXEL RESOLUTION	640X480, 12 µM PITCH
FOV	10°
DIGITAL ZOOM	2X, 4X

TV CAMERA	
SENSOR TYPE	CMOS
SPECTRAL BAND	VISIBLE AND NIR
PIXEL RESOLUTION	3.1 MPX
VWFOV	18°
WFOV	9°
MFOV	5.5°
NFOV	2.7°
DIGITAL ZOOM	2X

LRF	
WAVELENGTH	1540 NM
LASER CLASSIFICATION	EYESAFE CLASS 1
MEASURING RANGE	UP TO 5000 M
RANGE RESOLUTION	±1M
MEASURING MODE	SINGLE; CONTINUOUS 1 TO 25HZ

DMC	Range (deg/NATO mils)
AZIMUTH	360°/0.5° RMS
ELEVATION	± 90°/0.2° RMS

BLUETOOTH & WI-FI

- 2.4GHZ.

GPS SATELLITE NAVIGATION SYSTEM

- IT IS BASED ON GPS AND GLONASS, IT IS COMPATIBLE WITH ALL WORLDWIDE GRID SYSTEMS.

VISUAL UNIT

- THE VISUAL UNIT MODULE IS MONO-OCULAR AND COMPATIBLE WITH USE OF NBC MASK.
- OLED MICRO-DISPLAY WITH A PIXEL RESOLUTION OF 1280 X 1024
- -2/+5 DIOPTER ADJUSTMENT

RECHARGEABLE LI-ION BATTERY

- More than 5 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

- Less than 1.5 kg with battery

ENVIRONMENTAL SPECIFICATIONS

- LINX-MR 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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