



CAMCOPTER-Class

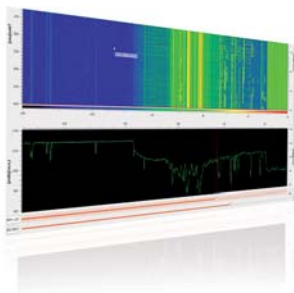


RQ7B SHADOW-Class



COMINT PAYLOAD HMI

RECEIVING PROCESSING UNIT



# ELT/1001

## COMM/ESM

### SYSTEM

**The ELT/1001** is a compact and high performance Communication ESM payload designed for Tactical Unmanned Aerial Vehicle on ISR mission operating on V/UHF range. Based on a Modular Architecture, State of the Art Software Defined Radio technology and proprietary algorithm, ELT/1001 enables high flexibility and reconfiguration for different targets and operative scenarios assuring operative superiority through communication emitter detection, classification, measurement and recording in order to accomplish surveillance and reconnaissance missions. SWaP characteristics are achieved through compact design and high integration technology assuring the installability on the majority of tactical unmanned platforms available on the market today.

**The ELT/1001 is composed** of a multichannel digital receiver and a set of innovative and proprietary special design electronically small antenna.

**The ELT/1001 is designed** to operate in conjunction with a dedicated Ground Control Station to evaluate and to dynamically build up the opponent network reconstruction and to geo locate their nodes. The multichannel configuration enables the Direction of Arrival estimation also for low permanent signal and the sampled data can be stored for a detailed post mission analysis.

### **KEY TECHNOLOGICAL DRIVERS** .....

- Open and Modular Multichannel Architecture
- Fast Tuning Speed
- Software Defined Receivers
- Proprietary Electronically Small Antennas
- SWaP Characteristics

### **FUNCTIONS** .....

- Wideband Communication Emitters detection, discrimination and classification
- High accuracy Direction of Arrival
- Emitter Geo-Location
- Wideband/Narrow Band Recording Capacity
- Downlink Data Stream
- Multi-Platform Operations
- Mission Based Easy Reconfiguration

### **PERFORMANCE** .....

- Wide operative and instantaneous bandwidth
- Selectable narrow band for analysis
- High Dynamic Range
- Wide spatial coverage
- High sensitivity
- High Probability of Intercept
- Low Life-Cycle costs

### **PRODUCT SUPPORT** .....

**The ELT/1001** is fully supported by a complete set of product support equipment including:

- Logistic Support for through-life maintenance and repair
- User Friendly oriented Operational Support Equipment for system programming and updating