



■ Vehicle PERUN 4x4 protected by new jamming system STAR Light 3 SF



■ STAR Manpack C/C2

# STAR Light 3 SF

## New type of URC Systems vehicle self-protection RCIED jammer

This device is intended for vehicle self-protection against Radio Controlled Improvised Explosive Devices (RC-IED). The usage of the jamming system significantly reduces the distance necessary for the explosive activation. The typical examples of deployment are in fighting, MRAP and special Searching/EOD vehicles.

Its modular design based on DDS and FPGA technology allows to prepare the unique combination of jamming bands, frequency ranges and output power to address the customer's requirements depending on the various threats for the particular territory or tactics of the operation.

With new type of the exciter, it can provide up to 10 independent sub-bands within each frequency band.

The jamming system features easy operation and simple diagnostics (BITE). An operator is allowed to switch the system on/off and separate transmitting modules. The jamming system indicates operational parameters and error states.

The setup of the operational frequency bands and other technical parameters of the jamming system can be achieved through RS485 interface using the provided remote control unit (RCU) or via the integrated Ethernet interface. When using the Ethernet interface, no special software or hardware is necessary. The configuration requires only a computer with a web browser installed.

Mechanical solution is intended for installation into non-air-conditioned space and the system is equipped with liquid cooling sub-system.

All jamming systems and their installation are designed in accordance with the relevant requirements of the MIL-STD 810 standard.

The system is powered by DC Voltage in range from 22 to 30 V, operating temperature -20 to +55° C.

### URC Electronic Warfare Products

ECM consists of highly modular, professional jamming systems designed to protect personnel, vehicles or convoys against RC-IED (Radio Controlled Improvised Explosive Devices) which could be also used to block cellular communication and data transfer and protect against UAS. Other part of ECM is tactical communication jamming systems that fulfil electronic attack tasks by blocking the enemy's communication. The main examples are:

**STAR V** - convoy protection with total power up to 1520 W,

**STAR Light 3 SF** - vehicle self-protection with liquid cooling sub-system and total power up to 340 W,

**STAR Manpack C/C2/EOD** - portable personnel protection with total power up to 160 W, **STAR Manpack AD** - portable anti drone protection with total power up to 50 W and direction "rifle" antenna,

**STAR PW** - high power yet portable protection with total power up to 460 W,

**STAR Manpack R** - portable personnel protection based on reactive technology, **STAR COM** – tactical communication jammer with total power up to 1,8 kW.

**COMMS-ESM/COMINT** consist of systems providing in general very fast reconnaissance, automated radio surveillance, signal analysis. It comes in four main versions:

**SYMON CCS** - stationary container supporting frequency range 20 MHz–18 GHz and all other features including the direction finding, localization of radio signals and production of

an intelligence reports and formalized messages according to the national standards, **SYMON Mobile** - mobile vehicle system supporting frequency range 20 MHz–6 GHz, **SYMON Light** - portable version is light enough to be carried to any area of interest supporting frequency range 20 MHz–3 GHz, **SYMON Collector** - fully unattended solution for radio surveillance serves as an early warning system for maneuver units, frequency range 20 MHz–3 GHz.

All versions of SYMONS described above are based on the main basic SW products:

**SYMON SW** - software modular solution SYMON SW (SoftWare) is intended for management, evaluating and interpretation measurement results of reconnaissance, monitoring, direction finding, technical on-line/offline analysis and classification of radio signals with geographic 2D/3D and database support.

**EWMAN** – software solution which provides the commanders/operators the capability to manage tasking, planning, collect and process data, disseminate the information and make decision during an EW/ISR operations,

**AKRS RT** - modular SW application intended for online/offline radio signal analysis, classification and decoding. It is applicable as a standalone installation or as a module of complex software solution SYMON SW,

### Other products:

**ANDROMEDA** - a complex counter UAS solution combining the information provided by various sensors (optical, radio and radar) in order to provide an early warning and select and apply the best counter strategy such as highly directional jamming,

**JADES** - helps to detect the enemy jamming system activity.

**emSENSOR** - a passive detection system designed to provide a reliable detection of an unauthorized entry or transit of wheeled and tracked vehicles through the area of interest,

**AD815** - vehicle mounted antenna providing the optimized radiation pattern for usage in the vehicle jamming systems.

### About URC Systems

URC Systems has been developing the comprehensive solutions to address the demand-

ate with Czech and international universities and research institutions.

### Manufacturing and integration

We manufacture jammers for protection from activation of radio-controlled improvised explosive devices, ruggedized computers, radio



ing needs of our customers since 1998. Our complete value chain provided to our customers contains research and development, manufacturing, after-sale service and user training in the areas:

- police command, control and service performance,
- command and control of combat and electronic surveillance, reconnaissance and radio jamming,
- data communication and integration.

### Our everyday business

#### Research and development

We perform security and defense research projects. We develop hardware, firmware, and software. We participate in strategic concepts for the Police of the Czech Republic, the Army of the Czech Republic and NATO. We cooper-

elements and reconnaissance sets, including their integration into vehicles. We do system integrations at the level of software components, applications, and subsystems.

#### Training and education

We develop simulators to facilitate training for our users. We offer training and education courses as part of implementation of new systems and innovations in our product portfolio.

#### Servicing and maintenance

We provide servicing and maintenance as an integral part of the life cycle of our products. We own an accredited servicing centre for radio stations. We perform installation, configuration, and administration of workstations and servers for LINUX and MS Windows operating systems. ■



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