



# PRR

## Digital Handheld Radio Station

2017



## MAIN CHARACTERISTICS

PRR – digital, handheld radio station with function of encryption for direct secure communication.

PRR is used for special tactical group, which fulfil central tasks. This device also:

- Increases the situational awareness
- Improves the coordination of action in tactical group
- Changes traditional methods based on voice and hand signals to the usage of PRR
- Increases temps of operations, improve the conditional for successful, covert mission



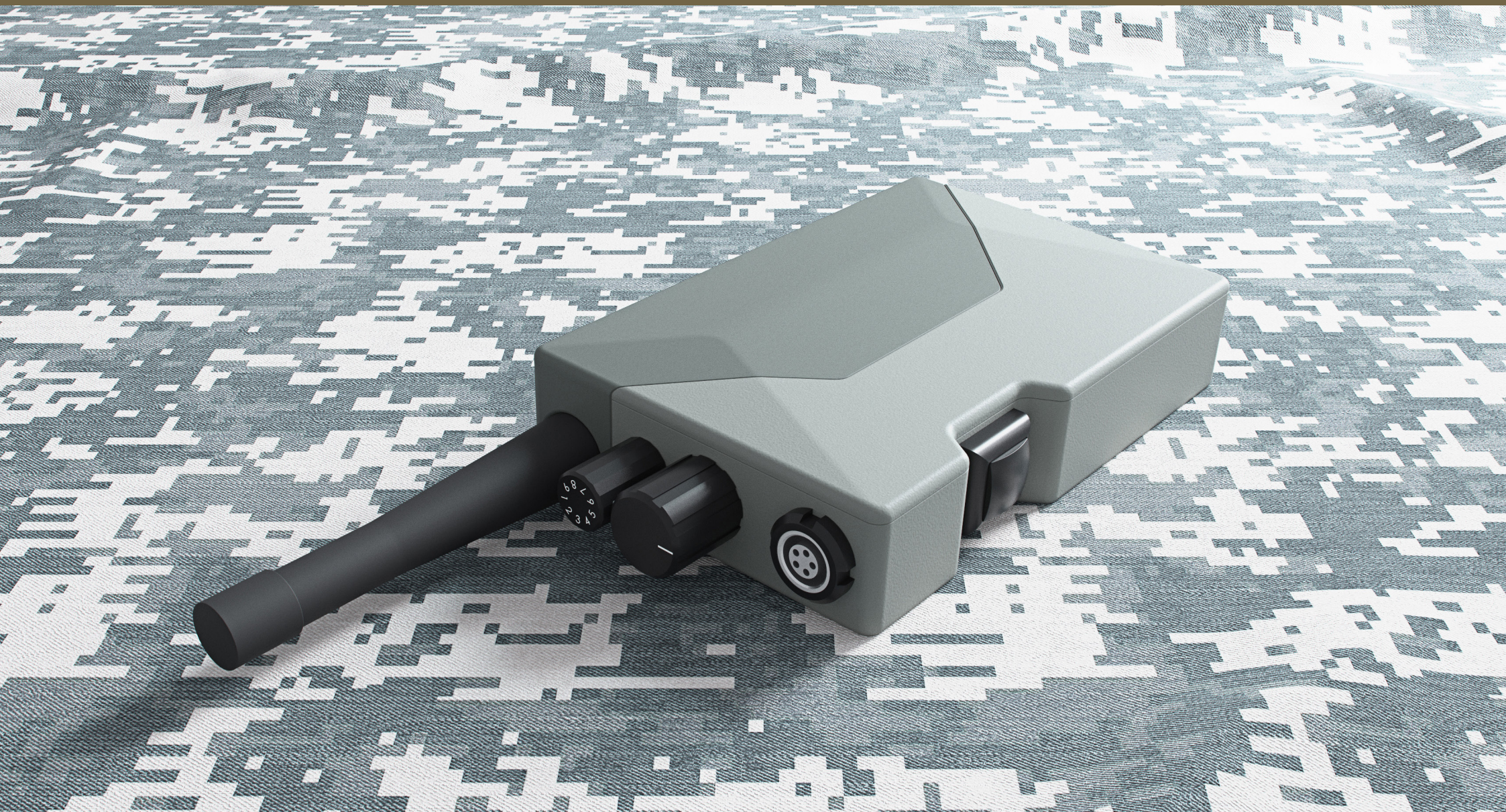


## SECURITY AND ENCRYPTION

Usage of spread spectrum technology (direct-sequencing spread spectrum, DSSS and frequency-hopping spread spectrum, FHSS) with low-density power are the basis of the main PRR advantages.

- Low probability of direction of the transfer information and cryptographic interception
- Additional of security provided by means of AES-256 CBC mode encryption protocol
- Prevention of false data entry
- Usage of elements of cognitive radio system for increase of reliability and communication quality in conditions of radio electronic fight









## MAIN ADVANTAGES

- Encryption
- Non-recallable keys, the opportunity to change the keys
- Remote lockout of the compromised device
- Work in groups
- GPS navigation
- Transfer of voice and data
- Wireless (Short Range) connection to the data transfer source or to the programming device



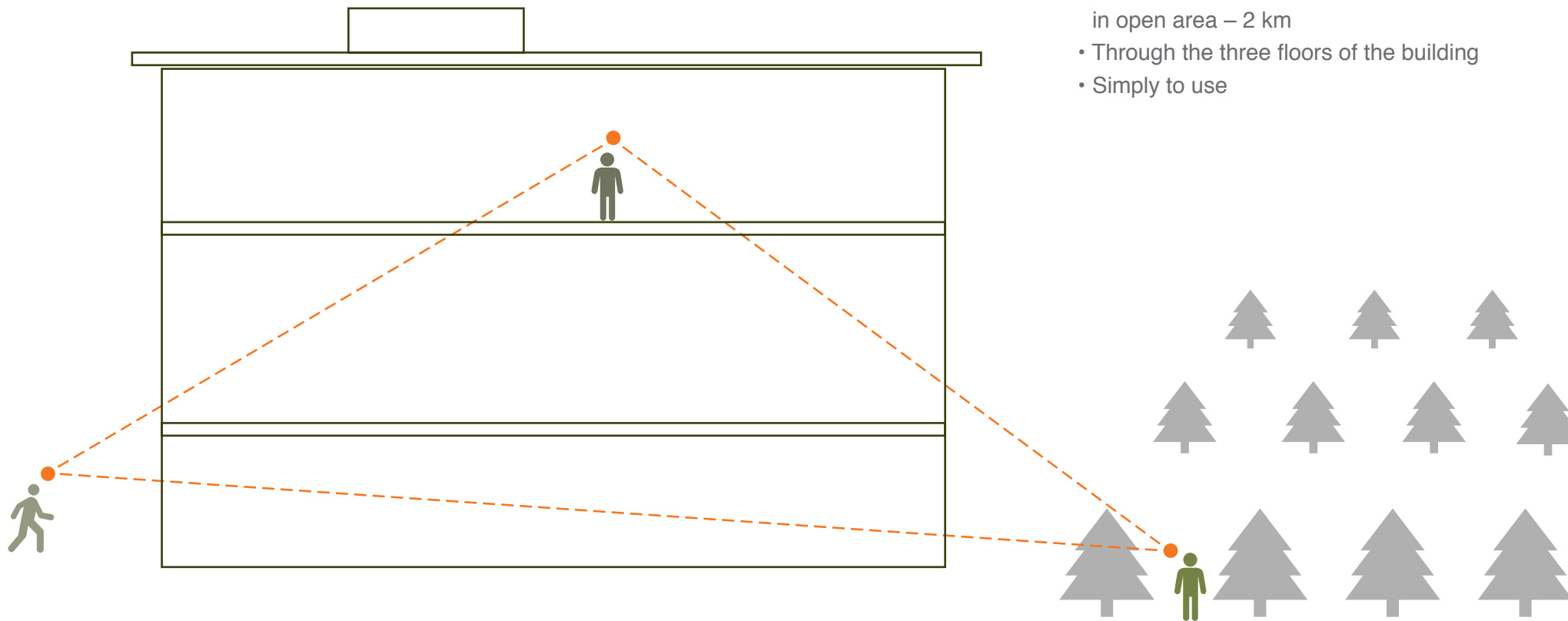
## **SIMPLY TO USE- BRIGHT SIDE OF DEVICE. MODERN DESIGN SOLUTION OF THE CASE**

- Simply to use the device
- No display, No other luminous elements. All this offer an opportunity to act quickly and guarantees direct secure communication
- brute-force switch modes and volume level

## **LIGHTWEIGHT BIT STRONG CASE**

PRR Radio created by using modern materials. Thus we have improved indicators of weight and size, increasing the safety margin required in harsh service conditions.

## PRR CHEME

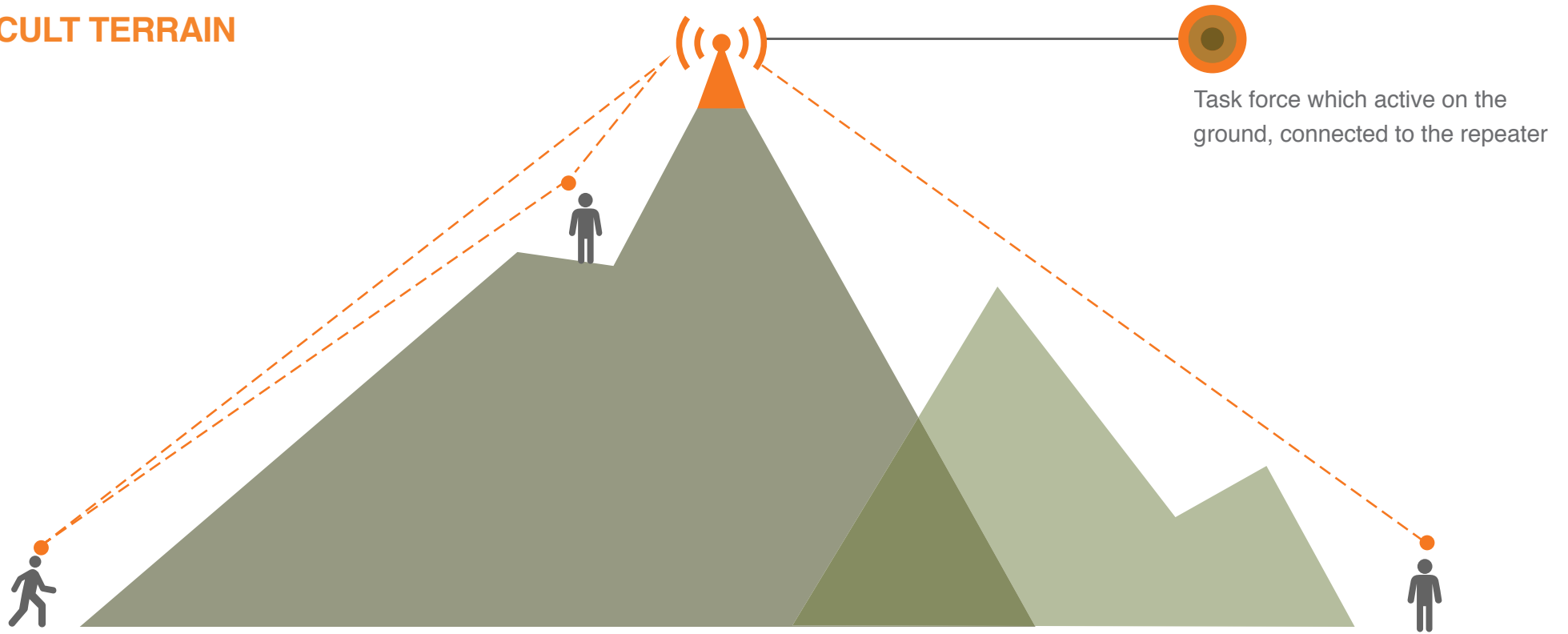


- Method of increase the situational awareness: range of operation in open area – 2 km
- Through the three floors of the building
- Simply to use

Communication without visual contact.  
Users know the location of each other  
and coordinate their actions.



## REPEATER AND DIFFICULT TERRAIN



Now Group can interaction  
in difficult terrain

## DATA SHEET

Options	Units	Indicators
Frequency range	MHz	2400-2498
Power Output	W	1
Number of channels	—	99
Number of programmable channels	—	16
Frequency spacing	MHz	1
Additional mode (signal security and interference immunity)	—	Spread spectrum technology DSSS, FHSS
Cryptographic protection of information	bit AES	256
Audio codec/decoder	—	AMR 4.75
The maximum data rate	Mb	1
Data interface	—	Bluetooth 4.0
Navigation		GPS
Range of operation in open area	m	2 000
Adaptation to difficult terrain		Ability to work as radio relay station
Continuous operating time	hours	15
Power	—	Powered by 2AA batteries for more than 24 hours (1:7:16 Tx/Rx/Standby)
Accessories	—	Compatible with standard NATO accessories (antenna, headphones, various types of furniture, including gas mask)
Weight with batteries and accessories	kg	0.220
Dimensions	mm	118 x 79 x 25