Tactical Laser System STING (LS)

The new generation tactical laser system STING is designed to support training for combat and non-combat operations. The system is ready to work in the tactics training mode using the DIS/HLA protocols.

Training focus:

Individual and collective training for combat and non-combat operations, planning and execution of the operations on various tactical levels.

Training options:

- tactics, shooting and training in urban area
- training in the operational environment of combat and non-combat operations (convoy protection etc.)

Developed skills:

- shooting accuracy
- tactical abilities and thinking

Compatibility:

- distributed simulation based on DIS protocol
- distributed simulation based on HLA
- dompatibility with constructive simulation systems
- dompatibility with the Lockheed Martin MILES system used by the Czech Army

Key benefits

- Training closest to real conditions of the battle combat and non-combat operations
- Instrumented training area with the wireless data transfer (on-line/off-line modes)
- Applicable on required types of the weapons and the non-combat vehicles
- Mobility, modularity and flexibility according to the user requirements
- Compatibility with the SPAME target lift jack
- Original proprietary solution and continuous future development

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Technical description

The tactical laser system STING is the original proprietary solution developed with respect to the army training requirements and designed as the modular system that enables easy expandability.
The Centre of Live Simulation STING-CLS (computer with the SIMULATOR application) enables visualization and recording of the exercise.

Contents

Individual set

- STING-BODY multi-zone electronic vest
- STING-HEAD electronic helmet belt
- STING-SAT laser emitter

Centre of Live Simulation STING-CLS enables:

- recording of STING-CLS coordinates using GPS
- work with the map (resize, move etc.)
- display the trainees coordinates and movement on the map
- monitor communication among trainees
- display aggregation into units
- make the comments and notes regarding the trainees or units
- use of NATO tactical signs
- display WiFi communication points
- simulation of the indirect fire and effects (mine fields, chemical or artillery attack)
- exercise preparation
- record and replay the log of the exercise
- other functions

Additional technical and service equipment

- WiFi communication devices (Access Points) Communication points and the power sources to cover the required training area by the external WiFi
- service computer, LASER application, ZigBit module. Fire setting laser emitter STING-SAT and electronic helmet belt parameters using the LASER application and the ZigBit module
- rectification set, for seting and adjusting laser emitter STING-SAT with sights of used weapon
- passive equipment - STING-PES. Passive electronic sets to instrument non-combat vehicles

Technical parameters

STING-BODY

- external communication: WIFI IEEE 802g
  - type of communication: full duplex
  - frequency: from 2,412 to 2,484GHz
  - range to communication point: 700 m
- internal communication: ZigBit
  - effective range: according to weapon type
  - type of communication: full duplex
  - frequency band from 2,4 to 2,4835GHz
  - GPS receiver: Antaris 4, SuperSense, L1
  - encoding: MCC97 standard
- power supply: 12 V
- battery capacity 2,6 Ah
- internal power supply: 3 V
- maximal operating time: 20 hours
- working temperature: from -20°C to +70°C
- weight: 1800 g

STING-HEAD

- internal communication: ZigBit
  - effective range: according to the weapon type
  - communication type: full duplex
  - frequency band: from2,4 to 2,4835GHz
  - encoding: MCC97 standard
- power supply: 1,2V NiMH
- battery capacity: 2,6 Ah
- internal power supply: 3 V
- maximal operating time: 20 hours
- working temperature: -20°C to +70°C
- weight: 450 g

STING-SAT

- internal communication: ZigBit
  - effective range: 0 -1200 m
  - type of communication: full duplex
  - frequency band: from 2,4 to 2,4835GHz
  - encoding: MCC97 standard
- power supply: 1,2V NiMH
- battery capacity: 2,6 Ah
- internal power supply: 3 V
- maximal operating time 20 hours
- working temperature: from -20°C to +70°C
- weight: 250 g

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