Stilsoft
Russian developer and manufacturer
of complex security systems

MONGOOSE

Mobile system for area protection

STVF.425624.001

PURPOSE

MONGOOSE mobile area protection system is designed to protect open areas and perimeters, entries and movement paths and to provide individual alerting of personnel on approaching intruders.

FIELDS OF APPLICATION

- securing temporary deployment sites to groups of people or military units by controlling and protecting the entry points to their deployment locations
- protection of facilities where deployment of stationary security systems is impractical
- application as fast deployable auxiliary security equipment at facilities, also in combination with the Murom system

VERSION

- mobility and fast deployment in the field is facilitated due to demountable design of the equipment included in the system
- system consists of a wearable set, security sensors, individual notifier and a retransmitter
- special backpack with pouches for each component is provided for packing and transporting the system parts
- system operation is implemented under Unicom-1-N management system

FEATURES

- intruder detection by security sensors, triggering and transmitting corresponding notifications to the wearable set

- visual and audio alerting of the wearable set operator on failure and shutdown of system components, receipt of alarm notifications, low battery level or complete discharge
- individual alarm event notification with sound, light and vibration signals to the personnel
- locating the wearable set, individual annunciators and security sensors
- system control using a wearable set
- Indication of alarm notifications, map information with personnel location, position and status of system components, except the charging unit (on wearable set screen)
- transmitting radio channel messages on the status and location of the wearable set to a central post
- 2-way short text message exchange (up to 200 characters) between the wearable set and the central post
- event logging
- battery status monitoring of wearable set, retransmitter, security sensors and individual notifiers

PECULIARITIES

- fast system deployment in the secured area
- high mobility degree due to the collapsible construction of its components and a backpack for safe and practical transportation
- supplied system is pre-configured and requires no special personnel skills to set
- download and geo-referencing of terrain maps via the built-in GPS receiver

SCOPE OF SUPPLY

Name	Quantity
✓ STS-943M Charging unit STVF.436111.001	1 pc.
✓ STS-102P Security sensor STVF.421878.004	8 pcs.
✓ STS-931P Retransmitter STVF.425664.001-01	1 pc.
✓ Individual notifier UNICOM-AMULET STAE.425549.001	3 pcs.
✓ UNICOM-1-N wearable set STAE.425664.013	1 pc.
✓ Clamp STVF.301119.002	8 pcs.
✓ Backpack set STVF.305143.007	1 set
✓ Tripod STVF.301422.006	9 pcs.
✓ Mobile battery 20000mAh	1 pc.
✓ Cable USB2.0 USB A (m) - mini USB B (m) 1.8м	1 pc.
✓ Operating guidelines STVF.425624.001 RE*	1 pc.
✓ Formulary STVF.425624.001 FO	1 pc.
* Operating guidelines are available at: http://stilsoft.ru	

DESCRIPTION OF SYSTEM PARTS

- STS-102P security sensor is designed to trigger an alarm message and transmit it via radio channel to UNICOM-1-N wearable set
- UNICOM-1-N wearable set enables an alarm message reception from security sensors and its transfer to UNICOM-AMULET individual notifiers directly or via STS-931P retransmitter, as well as notification to UNICOM-1-N wearable set operator recording an alarm message by individual notifiers

- STS-931P retransmitter is designed to extend the installation range of sensors and enable their usage under no line of sight conditions. The retransmitter provides redirection of alarm message from Unicom-1-N wearable set to Unicom-Amulet individual notifiers.
- STS-943M charging unit is designed for battery recharging of UNICOM-1-N wearable set and Unicom-Amulet individual notifiers from AC power supply circuit.

DESCRIPTION OF SYSTEM SOFTWARE

UNICOM-1-N wearable set with installed UNICOM-1-N software is designed to control, configure and organize a single information space of the system, enabling storage and display of information received from sensors and individual notifiers, as well as event logging
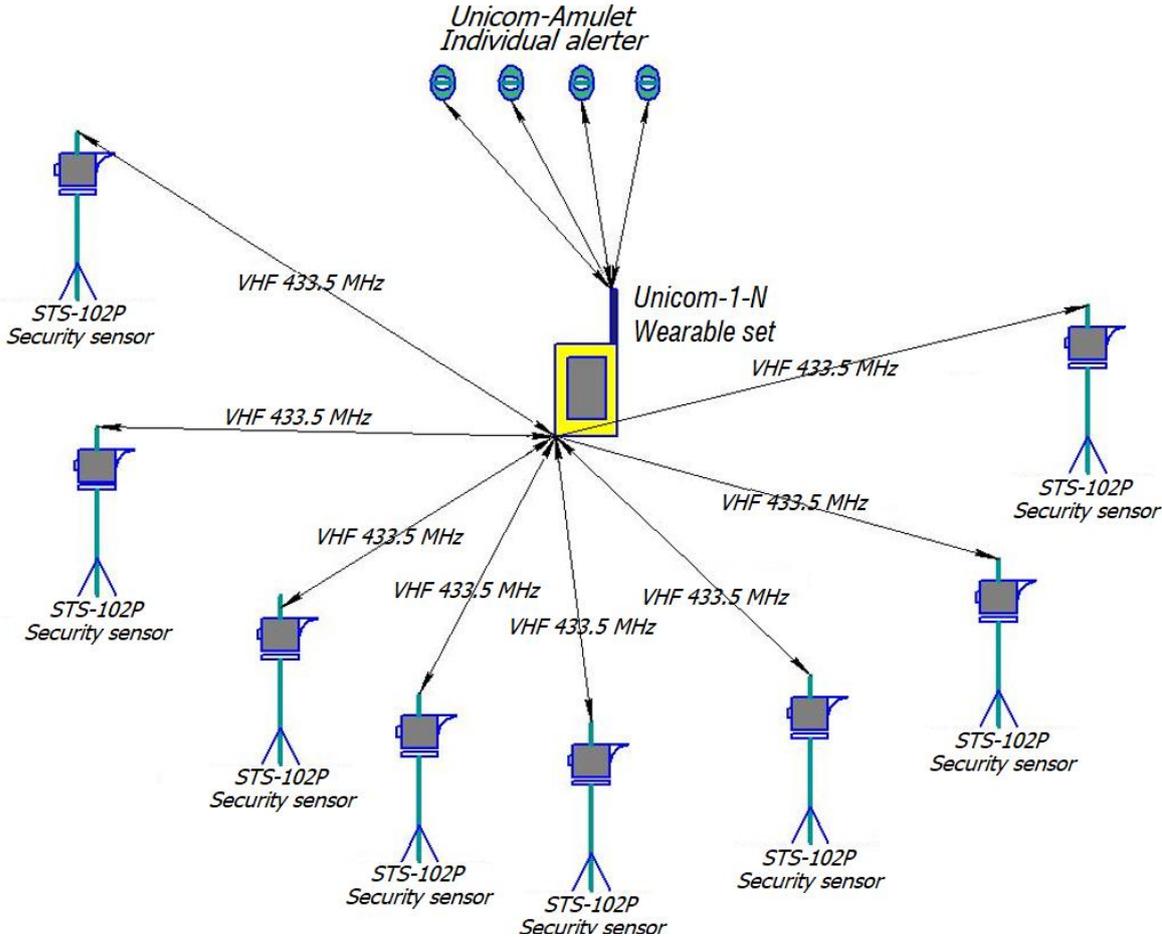
RELIABILITY AND WARRANTY

- Warranty operating period - 2 years
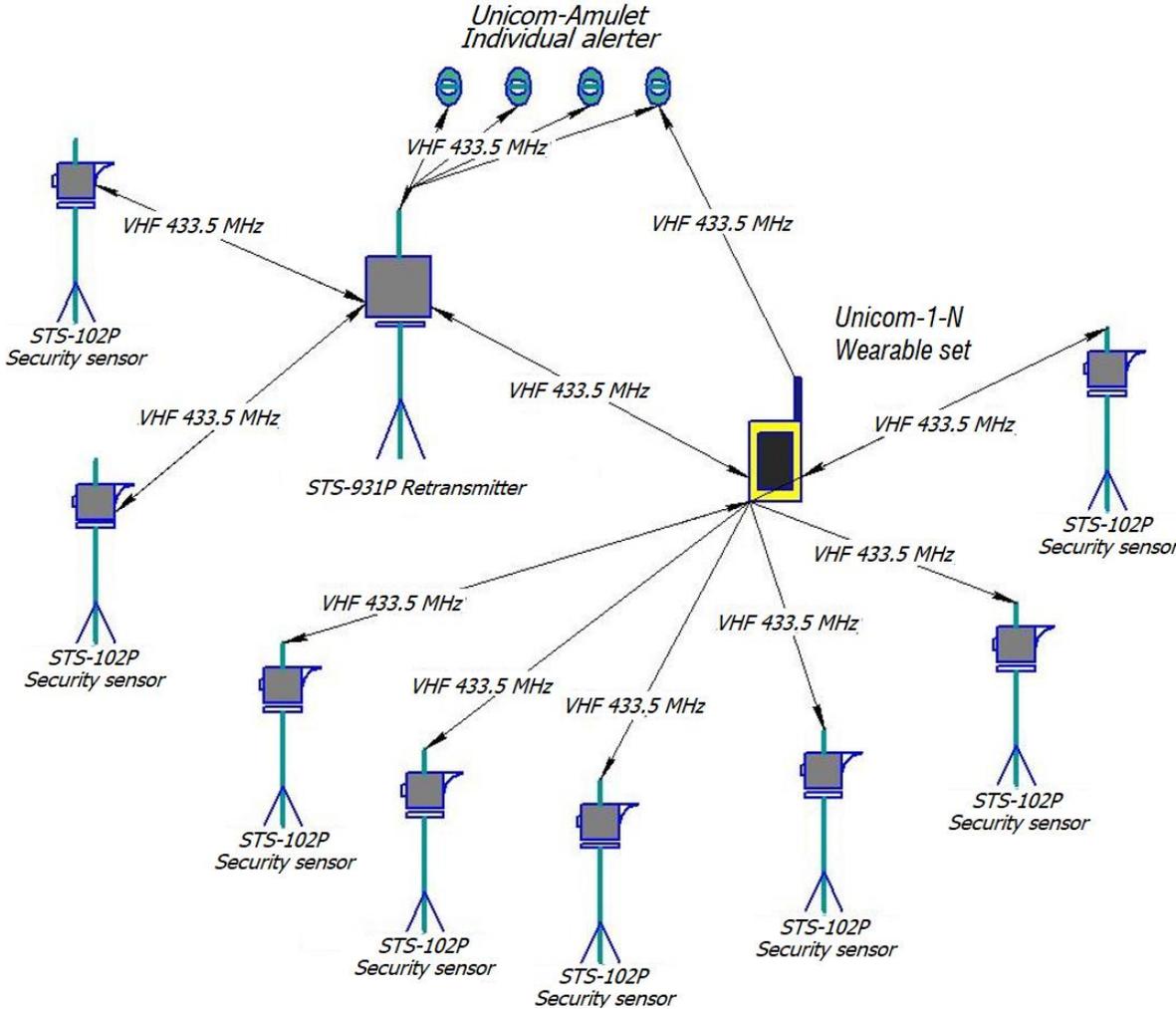- Assigned operating period - 8 years

TECHNICAL PARAMETERS

Parameter name	Value
Maximum line-of-sight alarm message transmission range, meters	500
Maximum number of STS-102P security sensors in one system, pcs.	65000
Moving intruder detection range, meters	50
Alarm message transmission time, sec. (maximum)	5
Detectable speed, m/s	0,1…5
Operating frequency, MHz	433,5
Automatic communication control of notifier with the system upper level	Yes
Frequency channel setting	Yes
Battery discharge sensor	Yes
Casing tampering sensor	Yes
Voice alert to operator upon sensor alert	Yes
Automatic display of graphical plan of protected perimeter and highlighting alarm area	Yes
Automatic radio channel routing	Yes
Arbitrary radio network topology	Yes
Technical operation availability of the system after power supply connection, sec. (maximum)	200
System installation performed by 3-person team (not more), min. (maximum)	20
Operation time in standalone mode without recharging, maximum: — STS-102P security sensor, years — STS-931P retransmitter, days — UNICOM-1-N wearable set, days — UNICOM-Amulet individual notifier, hours	5 60 2 30
Operating period	8
Battery lifetime, years (maximum)	2
Operating temperature range, °C	from -40 to +50
Set weight, kg (maximum)	19

SYSTEM DIAGRAM WITHOUT STS-931P RETRANSMITTER

Unicom-Amulet
Individual alerter

Unicom-1-N
Wearable set

VHF 433.5 MHz

VHF 433.5 MHz

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STS-102P
Security sensor

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SYSTEM DIAGRAM WITH STS-931P RETRANSMITTER

Unicom-Amulet
Individual alerter

VHF 433.5 MHz

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VHF 433.5 MHz

STS-102P
Security sensor

VHF 433.5 MHz

VHF 433.5 MHz

Unicom-1-N
Wearable set

STS-931P Retransmitter

VHF 433.5 MHz

VHF 433.5 MHz

STS-102P
Security sensor

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Developed and produced in Russia

+7 (8652) 52-44-44
www.stilsoft.ru