

“Unicom-1” System



“Unicom-1” is intended to provide communication between patrolling squads and control and command center.

The device solves the following tasks:

- Transmits messages about current location and state from portable alert devices to the command and control center via 433 MHz link.
- Bidirectional message exchange (short texts up to 200 digits each) between personal alert devices and the command and control center.
- Displays the state and location of personal alert and other devices on the map.
- Positioning of the patrol squads on the map provided by GPS/GLONASS receiver.
- Displays location of portable alert devices on the map, control signs and state of other technical devices.
- Video recording and still-framing in automatic and manual modes and by a command from the control center.
- Life-time and recorded video transmission via WiFi from Unicom-1 to the command and control center. Video can be also displayed from other devices.
- Double-side communication via Wifi.
- Data encryption and protection by VipNet.
- Receives and displays data from “RadioFence” security sensors and other integrated devices with map-reference.

The system incorporates standalone signal repeaters powered by solar models with automated signal routing.

Composition of the system:

1. Basic scope of supply*:

- Station set ‘Unicom-1-S’ – 1 pc.
- VHF repeater “Unicom-1-R” – 7 pcs.
- Broadband repeater “Unicom-1-Sh”- 5 pcs.
- “Unicom -1-N” smartphone – 5 sets.
- Fixed camera “Unicom-1-VS” – 3 sets.
- PTZ camera “Unicom-1-VU” – 2 sets.

2. Extended set “Unicom-1”*:

- “Unicom-1” workstation – 1 pc.
- Station set – “Unicom-1”- 1set.

3. Additional extension set “Unicom-1”*:

- Station set ‘Unicom-1-S’ – 1 pc.**
- VHF repeater “Unicom-1-R” – 1** pc.
- Broadband repeater “Unicom-1-Sh”– 1** pc.
- “Unicom -1-N” smartphone – 1** set.
- Fixed camera “Unicom-1-VS” – 1** set.
- PTZ camera “Unicom-1-VU” – 1** set.

* – *scope of supply is determined by order.*

** – *quantity is determined by order.*

Technical specification:

Parameter	Value
Signal coverage area between two devices, up to, km	8
Operating frequencies: - modem, MHz - RF broadband modem, GHz - broadband link, GHz	425..441 2,4 5
Number of devices in the network, up to, pc.	1024
Radio network coverage, up to, km	100
GSM-modem	GSM 900/1800/1900, 3G
WI-FI module	802.11 B / G / N
GPS/GLONASS	Yes
Automated signal routing	Yes
Arbitrary radio network topology	Yes
Auto display of secured area graphic map and illumination of the alarm zone	Yes
Operating temperature, °C	from - 40 to + 50