

WIRELESS RADIO COMMUNICATIONS SYSTEM For police, military, special units

Electronic radio system allowing real-time order distribution to large number of officers



Rys. 1 Helmet with receiver, transceiver and charger

Micro receiver is mounted inside the helmet along with antenna and independent power source. Receiver is co-operating with Motorola GP380 Portable Professional Radio. It is also able to co-operate with other types of radios working on that frequency. The receiver is voice-activated, what allows long stand-by time. It is stabilized, has ~500 meters range and is fully shock- and weather conditions proof. The receiver is powered by nickel-cadm rechargeable batteries mounted in 9,6V and 400 mAh sets. The helmet contains specially designed acoustic circuits with adjustable volume and *mute* function. This allows the helmet to be used in harsh environment and to be user-friendly at the same time.

Helmet mounted receiver specifications

Technical specifications:

1. Step between channels 25,0kHz or 12.5kHz.
2. NFM modulation max. frequency deviation +/-5kHz (for 25,0kHz) or +/- 2,5kHz (for 12,5kHz).
3. Low frequency sensitivity less then 0,35uV, typical -121dBm (0,2 uV) for 12 dB SINAD.
4. Selectivity above 60dB for 25.0kHz step between channels, 50 dB for 12,5kHz.
5. Ability to choose from 16 channels.
6. MUTE function.
7. About 12h work-time.
8. Volume control.
9. Frequency range – user defined

10. Two-way talk ability (on request) for 256 channels.
11. System can be build on user's or manufacturer's helmets.
12. Different model of radio can be used for longer range.
13. Helmet's radio equipment is water- and shockproof.
14. System can be equipped with appropriate certificates and opinions.
15. Unlimeted number of helmets is allowed within the system.
16. Different base frequency in also allowed.

Charger specifications

1. Up to 12 helmets simultanious chrge.
2. Microchip steering.
3. DC charging.
4. Full, individual discharge and charge process.
5. Single button to activate the process.
6. Automatic galvanic charging end when battery is full.
7. LED shows process state (charge/discharge/end).
8. Charging is secured against short current leakage.

Commander's transciever: users Motorola GP380 Portable Professional Radio.

Manufacturer gives 2 year warranty, warranty and post-warranty service and spare parts.

System was designed and manufactured to be user-friendly. All electronic and power supply elements were build-in to avoid external wires and elements, that can be easily destroyed during the duty. Nickel-Cadm rechargeable batteries are lasing longer thanks to microchip charging unit.



This system can be used in any environmental conditions and by all users, thanks to it's vertiality and our technical support. It is especially suitable for fire departaments, Navy, Coast Guard, ground units and other units that need this kind of equipment.

This system is currently used by polish Police and has great service record.