

ARTCOM | 5433 PLS

V/UHF EMERGENCY HANDHELD
SDN RADIO

#MilitaryCommunication



aselsan

V/UHF EMERGENCY HANDHELD SDN RADIO

PLS-5433 is a handheld emergency radio designed to be used by the survivors of any wreck for safely reaching friendly forces with the help of built in COMSEC & TRANSEC features as well as international emergency VHF and UHF bands covering entire VHF and UHF ATC frequencies.

This new generation Software Defined Networking Radio (SDNR) that is designed to provide position location information, voice communication and beacon broadcast in emergency frequencies 121.5 and 243 MHz. A wide operating frequency spectrum bandwidth of 30-512 MHz and high level Electronic Warfare Protection features provides much more field survivability ability to PLS-5433.

PLS-5433 handheld radio has a software defined architecture providing the following advantages:

- By using different waveforms on the same radio hardware, different units can communicate with each other in the tactical field.
- Waveforms on the radio can be updated.
- New waveforms and features can be added to the radio.

PLS-5433 has the capability to fulfill all the strategical and tactical communication requirements. User can select the required communication mode without loading any software and by just selecting the related waveform (mode) from the user interface.

Features

- 1.77 inches color RGB TFT display with 128 x160 resolution
- Built in loudspeaker
- High level of electronic warfare precautions (COMSEC and TRANSEC)
 - Built-in hardware based encryption
 - Frequency hopping
 - Red/black data separation
 - Emergency clear
 - User access control with crypto ignition key
- High speed real time data communications
- Simultaneous voice and data communications
- Ability of communicating with a second NET other than selected NET
 - Independent two PTT buttons to communicate with selected NET and a second NET for network based waveforms
- Built-in GNSS receiver
- Built-in camera (13 Megapixels)
- Built-in memory (32 GBytes)
- Preset channels and quick access channels by a multi position knob
- Software defined architecture
- Built-in-test
- Ethernet, USB and audio interface

General

- Operating frequency band : 30-512 MHz
- RF output power : 5 W (max)

Operating Modes/Features/Services

PLS Mode

- Positional location information display
- 121.5 and 243 MHz voice
- 121.5 and 243 MHz beacon broadcast

A-CNR V/UHF Mode

- Operating frequency band/channel spacing: 30-512 MHz / 25 KHz
- Clear and encrypted fixed frequency voice and data
- Encrypted frequency hopping voice and data
- Hailing/active-passive late entry
- Retransmission
- Channel scan
- Data transmission
- SMS

V/UHF Air to Ground Mode

- Operating frequency band : 108-174 MHz, 225-400 MHz
- AM/FM fixed frequency clear voice
- 25/8.33 KHz channel spacing for AM
- 25/12.5 KHz channel spacing for FM

Environmental

- MIL-STD-810G
- Operating temperature : -30 °C (-20 °C power on) / +55°C
- Storing temperature : -30 °C / +70°C
- Relative humidity : %95
- Immersion : 1/2 hr @ 1 m
- Drop
- Dust

EMI/EMC

- MIL-STD 461E

Mechanical

- Dimensions : W ~ 82 mm, H ~ 189 mm, D ~ 52 mm (With battery, without antenna and connectors)
- Weight : < 1000 gr (with battery, without antenna)

Configuration

- Receiver/transmitter
- Battery
- Charger, charging adaptor (220V, 50 Hz AC v e 110V, 60 Hz AC)
- V/UHF antenna (30-512MHz)
- UHF antenna (225-512MHz)
- GNSS antenna
- CIK (crypto ignition key)
- Data cables (USB, ethernet)
- External power booster
- Carrying case

Optional Accessories

- FG-2070 fillgun key/NET plan loader