PORTABLE JAMMING SYSTEM (PJS)

Portable Jamming System based on Reactive Jamming Technology for personal protection from Radio Controlled Improvised Explosive Device (RCIED).

KEY ADVANTAGES AT A GLANCE

- Reactive Jamming Technology
- AirSync
- 6.8 million threat signal generations per ms
- Easy to operate

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THE SOLUTION FOR EFFICIENT RADIO DISRUPTION

COMLAB leads the market in radio frequency technology applied for more than thirty-five years. Our involvement includes design, development, production and integration of turnkey high-frequency radio systems. Our considerable expertise and many years of experience means that we are able to support our customers in discovering solutions for all needs.

USAGE

COMLAB presents the state-of-the-art portable jamming system (PJS) to prevent individuals from radio controlled improvised explosive devices (RCIEDs).

The reactive jamming technology guarantees highest efficiency and processing gain for real-time signal detection and disruption. The smart allocated power efficiency allows a large operation radius for radio signal disruption also in well-covered urban and suburban areas. To maximize the coverage range, more than one PJS can be used. Therefore synchronization interface AirSync is available.

FUNCTION

The modular antennas are used for real-time reactive signal detection and radiation. The user can optionally control and monitor the system by a tablet PC or work in full automatic mode (ON-OFF switch). If there is a need for own communication during jamming this can be done by programming the corresponding segments.

SYSTEM PARTS

- **PJS-R4**
  - Frequency: 20..530 MHz, GSM900/1800, 125 Watt
  - Backpack portable, 19.5 kg
- **PJS-R6**
  - Frequency: 20..530 MHz, GSM900/1800, UMTS, ISM2.4, WiFi, LTE, 150 Watt
  - Suitcase portable, 24.5 kg
- **PJS-R10**
  - Frequency: 20..3000 MHz, 120 Watt
  - Backpack portable, 15.5 kg
- **PJS-VEHICLE MOUNT (Option)**
  - Vehicle installation kit
- **PJS-ANT BASE TELESCOPIC**
  - Telescopic antenna base
- **PJS-TPC (Option)**
  - Tablet PC for manual control
- **PJS-MAN (Option)**
  - Portable jammer manpack frame

KEY ADVANTAGES

- Highest efficiency achieved with Reactive Signal Generator
- Smart signal power allocation
- Easy to handle (switch on and forget)
- Designed for rough military environment

APPLICATIONS

- Protecting VIP
- Bomb disarming
- Special missions

USERS

- Ministry of Interior
- Ministry of Defence:
  - Air, Naval and Armed Forces
  - Governmental Agencies
  - National Security Agencies
  - Bomb squads
  - VIP Protection
  - Security Units

ADVANTAGES

- Reactive jamming technology
- 5.8 million threat signal generation per millisecond
- AirSync
- Complies the guidelines of the International Council on Non-Ionizing Radiation Protection (ICNIRP)

PJS-R4

- Frequency: 20..530 MHz, GSM900/1800
- RF Power: 125 Watt
- Weight: 19.5 kg
- Dimensions: 580x330x150 mm
- Portable: Backpack, Suitcase
- Cooling: active FAN

PJS-R6

- Frequency: 20..530 MHz, GSM UMTS, LTE, WIFI
- RF Power: 150 Watt
- Weight: 24.5 kg
- Dimensions: 500x330x150 mm
- Portable: Backpack, Suitcase
- Cooling: active FAN

PJS-R10

- Frequency: 20..3000 MHz
- RF Power: 120 Watt
- Weight: 15.5 kg
- Dimensions: 400x200x119 mm
- Portable: Backpack
- Vibration/Shock: MIL-STD-810G