

HOW DOES SYSTEM WORK?

Multi-Band Directional Jammer System

Alfasis Defense's Multi-Band Directional Jammer System offers a high-power, modular solution against UAV/drone and other RF threats.

With its 15-band structure, high-gain directional antennas, and motorized slewing mechanism, it provides a total RF output of up to 1000 W, neutralizing GNSS, remote control, telemetry, and video transmission frequencies.

The modular and scalable architecture allows for band customization based on mission and region

Key Specifications

- **Frequency coverage:** 400 MHz – 6 GHz (up to 15 bands)
- **Total RF output power:** 1000 W (aggregate)
- **Antenna:** High-gain directional, motorized rotating array
- **Control interface:** LCD panel with remote control option
- **Operating temperature:** –20 °C to +60 °C
- **Power supply:** 220 VAC
- **Effective range:** Up to 20 km (depends on environment and band)
- **Capability:** Simultaneous jamming of UAV/drone links, GNSS, Wi-Fi and other communication signals
- Vehicle/field-suitable high-power multi-band RF mixer offering 1000 W total output power across up to 15 bands with a steerable motorized antenna and mission-specific modular band options.

TECHNICAL SPECIFICATIONS

- **Frequency coverage:** 400 MHz – 6 GHz (15 bands total)
- **Total RF output power:** 1000 W
- **Antenna:** High-gain directional, motorized rotating antenna
- **Control interface:** LCD panel + remote control option
- **Operating temperature:** –20 °C to +60 °C
- **Power supply:** 220 VAC
- **Effective range:** Up to 20 km depending on environment and band

Key Features:

Total RF output: 1000 W total with 8 standard + 5 optional bands spanning 400 MHz to 6 GHz.

Multi-threat capability: Simultaneous jamming of UAV/drone, GNSS, Wi-Fi, and other communication signals.

Directional antenna array: High-gain, motorized rotating antenna providing focused long-range suppression.

Modular/scalable: Mission-specific upgrades and the ability to add up to 5 optional bands.

Military-grade reliability: Rugged design for harsh field conditions; operation from -20°C to $+60^{\circ}\text{C}$.

Operator-friendly control: LCD control panel with adjustable band, power, and direction settings, and optional remote control.

Power & range: 220 VAC power supply; effective range up to 20 km, variable depending on environment and band.

Application areas: Military operations, critical infrastructure protection (airports, energy facilities, communication centers), VIP/convoy security, urban and field uses.