



# VEGA

**Multi-Band Directional Jammer System**

Advanced Countermeasure Solutions for UAVs, Drones, and RF Threats



Developed by Alfasis Defence Technologies, the Multi-Band Directional Jammer System is a high-power solution designed to counter a wide spectrum of UAV, drone, and RF-based threats in modern operational environments. With its 15-band modular structure, high-gain directional antennas, and motorized rotating mechanism, the system delivers up to 1000 W total RF output power, ensuring maximum jamming efficiency and complete denial of hostile communications.

By targeting GNSS navigation, remote control, telemetry, and video transmission frequencies, the system fully neutralizes UAV operations. Its modular and scalable architecture allows optional band customization, making it highly adaptable to various mission profiles and regional requirements.



### **Frequency Coverage**

The system supports up to 15 bands simultaneously:

Standard Bands (8 Channels):

430 MHz → VHF/UHF communication, UAV control signals

860 MHz → Remote control and telemetry links

1.2 GHz (L2) → GNSS positioning (GPS/GLONASS/Galileo)

1.4 GHz → Regional GNSS & satellite communication signals

1.5 GHz (L1) → GPS, BeiDou, Galileo, QZSS

2.4 GHz → Wi-Fi, ISM band, UAV control/data link

5.1 GHz → Advanced Wi-Fi and UAV control frequencies

5.8 GHz → UAV FPV video transmission and Wi-Fi

### **Optional Bands (up to 5 Channels):**

Configurable within 400 MHz – 6 GHz, based on operational needs.

This flexibility ensures the jammer can be tailored to specific regional frequency allocations and mission requirements.



### **Key Features**

**1000 W Total Output Power:** Delivers high-energy RF suppression across multiple bands

**15-Band Capability:** Simultaneous jamming of UAV, GNSS, Wi-Fi, and communication signals

**Customizable Architecture:** 5 optional bands between 400 MHz and 6 GHz

**Directional Antenna Array:** High-gain antennas focusing jamming power on targeted threats

**Motorized Rotating Platform:** Rapid and precise orientation for maximum effectiveness

**Scalable Modular Design:** Mission-specific upgrades and flexible deployment

**Military-Grade Reliability:** Ruggedized system for harsh field operations

**Operator-Friendly Control:** Central panel with band, power, and directional settings

## Applications

**Military Operations:** Neutralizing UAVs, drones, and hostile RF links in combat zones

**Critical Infrastructure Protection:** Defense of airports, energy facilities, and communication hubs

**VIP & Convoy Security:** Mobile protection against UAV threats during movement

**Urban & Field Deployments:** Versatile use for both stationary and mobile platforms

## Technical Specifications

**Frequency Bands:** 15 total (8 standard + up to 5 optional within 400 MHz – 6 GHz)

**Total RF Output Power:** 1000 W

**Antenna Type:** High-gain directional antenna (motorized rotation)

**Effective Range:** 20 km depending on environment and band

**Control Interface:** LCD operator panel, remote control option available

**Power Supply:** 220 VAC

**Operating Temperature:** -20°C ~ +60°C

**Size & Weight:** Configurable design for field, mobile, or fixed-site use

The Multi-Band Directional Jammer System with its 1000 W total RF output and 220 VAC power supply provides unmatched suppression capabilities against UAVs, drones, and hostile RF communications. Offering precision targeting, modular flexibility, and robust performance, it stands as a vital solution for military, governmental, and critical infrastructure protection missions.



**Alfasis Savunma Mühendislik A.Ş.**

Anadolu Bulvarı TİMKO Sitesi NO:20 M / 4

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