Traditional vs. AI-Driven Detection: Why MYT's CE Certified Vehicle-Mounted Anti Drone Jammer Prevails

FEATURES

- **FPV Interference:** Effectively defends against radio-controlled and FPV drones, with outstanding interference performance.
- **Comprehensive FPV Model Coverage:** Covers 8 frequency bands, achieving full coverage of FPV drone frequencies.
- **Multiple Working Modes:** Supports both fixed and vehicle-mounted modes, offering manual and autonomous control of interference bands.
- **Easy to Operate:** One-click full-frequency interference or independent control of interference bands.
- **Strong Expandability:** Flexibly deployable on various vehicles, expandable to integrate radar, electro-optical systems, and navigation deception devices.
- **Customized Service:** Tailored intelligent solutions are provided based on customer needs for optimal defense performance.
- **Military-grade Quality:** Built with high-transparency materials and aviation aluminum structure, it withstands extreme temperatures from -40℃ to +60℃.

SPECIFICATION

Interference Frequency	400MHz-500MHz, 630MHz-780MHz, 770MHz-900MHz, 890MHz-1020MHz, 1220MHz-1360MHz, 2400MHz-2500MHz, 5100MHz-5300MHz, 5700MHz-5900MHz (customizable)
Band Power	Each band ≥30W
Jamming Range	0-1km (depending on conditions)
Interference Direction	360°
Response Time	≤5 seconds
Power Supply	AC220V/110V
Power Consumption	≤1000W
Control Method	Handle control or software control
Operating Temperature	-40℃~+60℃
Dimensions	20-30kg
Weight	490mm*425mm (Radius*Height)

Chongqing, China Apr 16, 2026 (Issuewire.com**)** - Modern low-altitude security faces a critical turning point: the limitations of conventional manual detection versus the rapid precision of artificial intelligence. For security entities managing high-value convoys or critical mobile infrastructure, the failure to identify a "dark" drone within seconds can lead to catastrophic breaches. As a leading **Vehicle-Mounted Anti Drone Jammer Manufacturer**, MYT (MiaoYi Tang Technology) addresses these vulnerabilities by integrating AI-driven intelligence into mobile defense platforms, shifting the paradigm from reactive jamming to proactive, cognitive neutralization.

I. The Evolution of Mobile Low-Altitude Defense

A Vehicle-Mounted Anti Drone Jammer is a specialized electronic warfare system integrated into a mobile platform, designed to detect, track, and neutralize unauthorized UAVs while on the move or stationed in temporary positions. Unlike fixed installations, vehicle-mounted systems provide the tactical flexibility required for protecting VIP motorcades, border patrols, and military deployments.

The fundamental principle relies on emitting high-intensity electromagnetic interference across specific radio frequency (RF) bands. By disrupting the communication link between the drone and its controller, or interfering with its GNSS (GPS/GLONASS/Beidou) signals, the jammer forces the drone to land, hover, or return to its launch point. However, the efficacy of this "interference" is entirely dependent on the quality of the preceding "detection." This is where the industry sees a stark divide between legacy systems and next-generation AI-driven solutions.

II. Traditional Detection vs. AI-Driven Intelligence: The Competitive Edge

Traditional detection systems largely rely on basic spectrum sensing or manual visual confirmation. These methods often struggle with signal "noise" in complex urban environments, leading to high false-alarm rates triggered by Wi-Fi routers or mobile base stations.

In contrast, MYT’s AI-driven detection, backed by the technological prowess of the Institute of Internet of Things under the Chinese Academy of Sciences, utilizes sophisticated signal processing. By employing clutter algorithms, the system can effectively filter out environmental interference such as weather patterns, bird migrations, and ground clutter.

- **Precision and Speed: While** traditional systems might require a human operator to verify a signal, MYT’s AI-based recognition for photoelectric cameras can automatically identify and lock onto a target.
- **Broadband Coverage: Traditional** jammers often cover limited bands. MYT’s technology features independently developed SDR (Software Defined Radio) broadband technology, covering a massive range from 70MHz to 8000MHz.
- **MIMO Technology: The** integration of MIMO (Multiple-Input Multiple-Output) microstrip antenna arrays allows for superior spatial resolution, ensuring that multiple targets can be tracked and neutralized simultaneously—a feat nearly impossible for traditional waveguide slot antennas with digital beamforming (DBF).

III. Technical Specifications and FPV Defense Capabilities

The MYT Vehicle-Mounted FPV Defense System is specifically engineered to counter the rising threat

of FPV (First Person View) "kamikaze" drones. The technical parameters reflect a commitment to high-performance defense:

- **Interference Range: Depending** on the environment, the system provides a robust 1 km to 2 km effective suppression radius.
- **Multi-Band Shielding: It** supports 8-band to 12-band interference configurations, ensuring that even modified commercial drones or custom-built FPVs operating on non-standard frequencies are successfully blocked.
- **Output Power: With** a total output of several hundred watts, the system ensures that the jamming signal remains dominant over the drone's remote control signal even at the edge of the perimeter.
- **Antenna Integration: The** system pioneers an integrated solution combining omnidirectional antennas for 360-degree situational awareness and directional antennas for concentrated suppression once a threat is localized.

IV. The Significance of CE Certification and Quality Assurance

In the global security market, reliability is non-negotiable. MYT's vehicle-mounted solutions are CE Certified, ensuring that the equipment meets stringent European safety, health, and environmental protection requirements. This certification is not merely a legal formality; it serves as a testament to the system's electromagnetic compatibility (EMC).

For vehicle-mounted applications, EMC is vital. High-power jamming signals must not interfere with the vehicle's own electronic control units, navigation systems, or communication equipment. The CE certification guarantees that MYT's jammers provide maximum external suppression with minimum internal interference, ensuring the safety of the operators and the integrity of the host vehicle's systems.

V. Industrial Leadership and Research Foundations

The superiority of **MYT** is rooted in its academic and research DNA. Affiliated with the Institute of Internet of Things (IoT) of the Chinese Academy of Sciences, the company benefits from a top-tier R&D team consisting of over 100 members, including an Academician, 17 Ph.D. holders, and 48 Master's degree holders. This high-level intellectual capital has led to the development of ultra-wideband signal sources and power amplifiers that set the industry standard.

The transition from a laboratory breakthrough to a field-tested product is overseen by more than 120 test engineers. This rigorous testing protocol ensures that the clutter algorithms and MIMO antenna arrays perform reliably in diverse climates—from the humid environments of South America to the high-temperature regions of the Middle East.

VI. Real-World Applications and Global Reach

The practical application of MYT's vehicle-mounted systems spans across various high-stakes scenarios. In the United Kingdom and Spain, these systems have been integrated into security protocols for large-scale public events and government convoys. In the Middle East, the focus shifts to border security and counter-FPV operations in desert terrains.

The engineers at MYT work directly on the ground in these regions, accumulating hands-on experience that informs their "tailor-made" technical support. This localized knowledge ensures that the AI models are trained on regional drone signatures, providing a localized defense strategy that a "one-size-fits-all"

traditional jammer cannot match.

As drone technology continues to advance, the gap between traditional defense and AI-driven security will only widen. The MYT CE Certified Vehicle-Mounted Anti-Drone Jammer represents the pinnacle of this evolution, combining the mobility of vehicle integration with the precision of AI-enhanced detection. By choosing a system rooted in scientific research and validated by international certifications, security professionals can ensure they remain one step ahead of the low-altitude threats of tomorrow.

For more information on customized low-altitude security solutions, visit the official website:

https://www.chinaantidrone.com

Media Contact

Chongqing Miao Yi Tang Technology Co., Ltd.

*********@chinaantidrone.com

Source : Chongqing Miao Yi Tang Technology Co., Ltd.

See on IssueWire