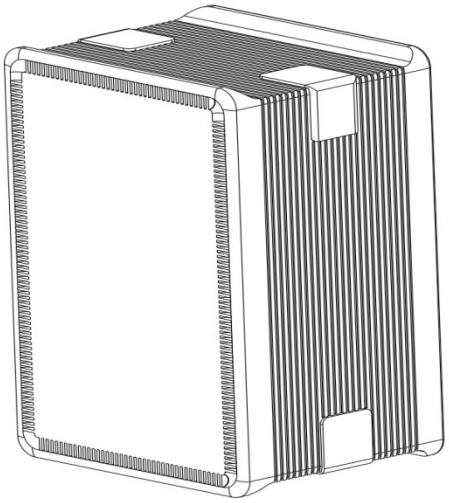
Fixed-Station Analytical RF Integrated Detection & Jamming Product Specification

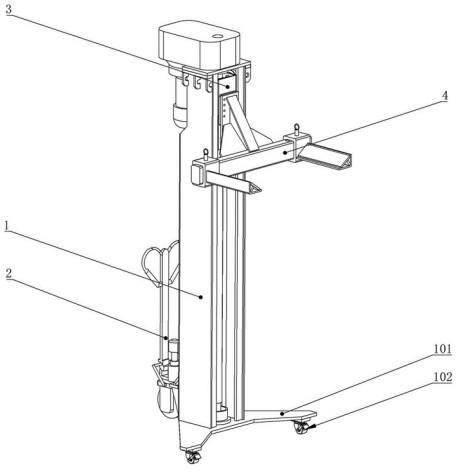
Category	No.	Function	Specifications	Remarks
UAV Jamming Unit	1	Jamming Type	Precision Waveform Jamming Guided Jamming	Guided jamming reduces the effective jamming range
	2	Jamming Mode	Uplink Jamming Downlink Jamming Jamming, interception, video replacement, and image replacement (all for analog video links) GPS navigation takeover (civilian code, power: ⩽5 W) (disabled by default)	GPS navigation takeover complies with relevant national laws and regulations
	3	Jamming Range	Jamming radius R ⩾5 km	Typical value under clear line-of-sight conditions and without complex electromagnetic environments (e.g., high-power radar, broadcast/TV towers, substation interiors, military electronic countermeasure exercises, and severe solar magnetic storms)
	4	Simultaneous Jamming Capacity	⩾14 (FPVs at different frequencies jammed simultaneously); ⩾14 (UAVs at different frequencies jammed simultaneously) ⩾28 (UAVs at different frequencies and from different directions jammed simultaneously)	"Simultaneously" is defined as within a short time window, typically no more than 3 seconds
	5	Jamming Success Rate	Jamming success rate ⩾99%	Typical value
	6	Jamming Coverage Angle	Horizontal: 0° 360° ; Elevation: -90° to +90°	
	7	Jamming Frequency	Frequency-adaptive jamming	
	8	Supported Drone Models	Not limited to DJI and Autel series; also covers various FPV racing drones and DIY drones	Excludes fiber-optic, Starlink-navigation, and inertial-navigation drones
	9	Transmit Power	0.5 100 W	Output power is programmable
	10	Jamming Response Time	3 7 s	Remote controller signal interruption occurs within milliseconds; return-to-home or crash occurs in 3 7 s (typical, related to jamming range)
	11	Jamming Bandwidth	Adaptive bandwidth	
	12	Jamming-to-Signal Ratio (J/S)	7:1 10:1 (typical) 5:1 7:1 (typical)	FPV racing drones, etc. Brand drones
	13	Jamming Effectiveness Assessment	Available	
	14	Jamming Duration	0.1 10 s (typical)	The transmitter is silently powered off after the effectiveness assessment

	15	Navigation Path Takeover Guidance	Available	When the spoofed destination is far away, approval from the relevant law-enforcement authorities is required.
	16	Spurious/Parasitic Radiation	Complies with the legal provisions of the relevant radio regulatory authority	
Receiver Section	1	Detection Method	Passive detection	
	2	Detection & Localization	Meets general localization requirements Electronic map display (customer downloads their own commercial electronic map) Brand drone model, SN code, frequency, lat/long coordinates, bearing, range, flight altitude, speed, and remote controller lat/long coordinates, etc.	Not supported after RID firmware flashing
	3	Spectrum Display	Not displayed by default	Can be enabled on special request
	4	Detection Frequency Band	Full-band adaptive detection	
	5	Real-time Bandwidth	80 300 MHz	
	6	Direction-Finding Function	The electronic map displays brand drone models and bearing information of unauthorized drones, etc.	Does not support fiber-optic, Starlink-navigation, or inertial-navigation drones
	7	Detection/Jamming Operating Mode	Supports half-duplex and full-duplex modes	Manual/fully automatic modes
	8	Direction-Finding Range	Radius R ⩾5 km	
	9	Localization Range	Radius R ⩾5 km	
	10	Drone Model Identification	Whitelist identification	Legitimate brand drones
	11	Detection Coverage Angle	Horizontal: 0° 360° ; Vertical: -90° to +90°	
	12	Simultaneous Detection Capacity	⩾28	Different frequencies and directions
	13	Localization Error	⩽20 m (RMS)	Typical value
	14	Direction-Finding Error	⩽10° (RMS)	Typical value
	15	Response Time	⩽0.5 s	
Management Unit	1	AI Module	AI decision-making AI integration function AI training: customers can train the AI independently; it can be trained on legitimate drones (excluding fiber-optic and inertial-navigation drones)	Optional
	2	Data Import Function	Drone data import for AI training; parsing upgrades for new drone protocols	
	3	System Integration Function	Integration capability with radar, electro-optical, high-power microwave, and acoustic (voiceprint) systems	Switch interface (100 M)
	4	Logging Function	Manual export / automatic import to the data center	

	5	Management Center Access Function	TCP/IP	
	6	Networking Function	Wireless ad-hoc networking; friend-or-foe identification (IFF)	
Others	1	Waterproof Rating	IP67	
	2	Receiver Damage Power	⩾40 dBm	If deployed near large radar stations or high-power microwave stations, protective devices must be replaced
	3	Lightning Protection	Two-stage lightning protection	
	4	Installation Height	The highest point of the terrain is recommended	
	5	Weight	≈25 kg	
	5	Installation Environment Requirements	It is recommended that no large high-voltage substations or obstructions be nearby	
	6	Power Supply	Battery, mains power, etc.	Mains power 220 V
	7	Frequency	0.1 6.2 GHz	Replaceable and expandable RF components
	8	Weight	⩽15 kg	Antenna not included
	9	Dimensions	≈400×380×130 mm	L×W×D, antenna not included
	10	Detection / Jamming Coverage	R ⩾10 km	
	11	Jamming Capacity	⩾30 sorties	
	12	Self-positioning	Available	IMU
	13	Standby Time	Long-term	



Appearance Diagram



Mounting Bracket Diagram