

第三代察打一体无人机反制系列设备

Third-Generation Integrated Reconnaissance-Strike C-UAV Equipment Series

产品参数 Product Parameters

This integrated equipment realizes spectrum signal analysis, drone identification, directional radio frequency detection and targeted jamming output, which is the standard fixed anti-UAV equipment for civil airports.

1.手持式察打设备（针对穿越机）

序号	项目		单位	特点	备注
1	频率	0.17~2.5	GHz		RF 组件可替换、可扩展
2	重量	≤2	kg		不含天线
3	尺寸	≈255×165×55	mm		长×宽×深（不含天线）
4	侦测、干扰覆盖面积	R≥0.5~1	km		频率、地形典型要求
5	FPV 干通比	≥5:1~8:1			典型值
6	频率察打自适应	具备			
7	干扰功率自适应	具备			
8	侦察/干扰工作方式	全双工			
9	察打响应时间	≤3~10	s	无人机返航、迫降时间	典型值
10	干扰效能评估能力	具备			干扰完成后，发射机静默
11	侦测角度	360°			典型频点
12	干扰角度	360°			典型频点
13	自我定位	具备		IMU	
14	导航干扰、诱骗	具备			后续可软件升级
15	干扰处理方式	迫降、返航			
16	数据库升级	具备		无人机机型数据库	数据库手动升级
17	AI 接入能力	具备		接入 AI 节点固定站	后续可固件升级
18	频率扩展能力	具备			后续可更换 RF 选件
19	待机时间	≥4	h		

1. Handheld Reconnaissance-Strike C-UAV Device (for FPVs)

NO.	Item		Unit	Characteristics	Remarks
1	Frequency	0.17~2.5	GHz		Replaceable and Expandable RF Components
2	Weight	≤ 2	kg		Antenna Not Included
3	Dimensions	$\approx 255 \times 165 \times 55$	mm		L×W×D (Antenna Not Included)
4	Detection/Jamming Coverage	$R \geq 0.5 \sim 1$	km		Under Typical Frequency and Terrain Conditions
5	FPV Jamming-to-Signal Ratio	$\geq 5:1 \sim 8:1$			Typical Value
6	Frequency Detection/Jamming Self-adaptation	Available			
7	Jamming Power Self-adaptation	Available			
8	Detection/Jamming Operating Mode	Full Duplex			
9	Detection & Countermeasure Response Time	$\leq 3 \sim 10$	s	Return/Forced Landing Time	Typical Value
10	Jamming Effectiveness Evaluation Capability	Available			
11	Detection Angle	360°			
12	Jamming Angle	360°			
13	Self-positioning	Available		IMU	
14	Navigation Jamming and Spoofing	Available			Software Upgradable
15	Jamming Processing Mode	Forced Landing/Return Home			
16	UAV Model Database Upgrade	Available		UAV Model Database	Manual Database Upgrade
17	AI Collaboration Capability	Available		Accessible to AI Node Fixed-Station	Firmware Upgradable
18	Frequency Expansion Capability	Available			RF Module Replaceable
19	Standby Time	≥ 4	h		



2. 手持式察打设备（针对大疆、道通等无人机）

序号	项目		单位	特点	备注
1	频率	0.8~6	GHz		RF 组件可替换、可扩展
2	重量	≤ 2	kg		不含天线
3	尺寸	$\approx 255 \times 165 \times 55$	mm		长 $\times$ 宽 $\times$ 深（不含天线）
4	侦测干扰覆盖面积	$R \geq 0.5 \sim 1$	km		
5	FPV 干通比	$\geq 3:1 \sim 5:1$			
6	频率察打自适应	具备		下行数字图像解析	上行通信链路干扰后续升级
7	干扰功率自适应	具备		下行数字图像干扰	上行通信链路干扰后续升级
8	侦察/干扰工作方式	全双工			
9	察打响应时间	$\leq 3 \sim 10$	s	无人机返航、迫降时间	典型值
10	干扰效能评估能力	具备			
11	侦测角度	360°			
12	干扰角度	360°			
13	自我定位	具备		IMU	
14	导航干扰、诱骗	具备			后续可软件升级
15	干扰处理方式	迫降、返航			
16	数据库升级	具备		无人机机型数据库	数据库手动升级
17	AI 协同能力	具备		接入 AI 节点固定站	后续可固件升级
18	频率扩展能力	具备			后续可更换 RF 选件
19	待机时间	≥ 4	h		

2. Handheld Reconnaissance-Strike C-UAV Device (for DJI/Autel, etc.)

NO.	Item		Unit	Characteristics	Remarks
1	Frequency	0.8~6	GHz		Replaceable and Expandable RF Components
2	Weight	≤ 2	kg		Antenna Not Included
3	Dimensions	$\approx 255 \times 165 \times 55$	mm		L×W×D (Antenna Not Included)
4	Detection/Jamming Coverage	$R \geq 0.5 \sim 1$	km		
5	FPV Jamming-to-Signal Ratio	$\geq 3:1 \sim 5:1$			
6	Frequency Detection/Jamming Self-adaptation	Available		Downlink Digital Image Decoding	Uplink Communication Link Jamming Upgradable
7	Jamming Power Self-adaptation	Available		Downlink Digital Image Jamming	Uplink Communication Link Jamming Upgradable
8	Detection/Jamming Operating Mode	Full Duplex			
9	Detection & Countermeasure Response Time	$\leq 3 \sim 10$	s	Return/Forced Landing Time	Typical Value
10	Jamming Effectiveness Evaluation Capability	Available			
11	Detection Angle	360°			
12	Jamming Angle	360°			
13	Self-positioning	Available		IMU	
14	Navigation Jamming and Spoofing	Available			Software Upgradable
15	Jamming Processing Mode	Forced Landing/ Return Home			
16	UAV Model Database Upgrade	Available		UAV Model Database	Manual Database Upgrade
17	AI Collaboration Capability	Available		Accessible to AI Node Fixed-Station	Firmware Upgradable
18	Frequency Expansion Capability	Available			RF Module Replaceable
19	Standby Time	≥ 4	h		



3. 手持式察打设备（针对 FPV 图传系统）

序号	项目		单位	特点	备注
1	频率	0.3~6	GHz		RF 组件可替换、可扩展
2	重量	≤ 2	kg		不含天线
3	尺寸	$\approx 255 \times 165 \times 55$	mm		长 $\times$ 宽 $\times$ 深（不含天线）
4	侦测干扰覆盖面积	$R \geq 0.5 \sim 1$	km		
5	FPV 干通比	$\geq 3:1 \sim 5:1$			
6	频率察打自适应	具备			
7	干扰功率自适应	具备			
8	侦察/干扰工作方式	全双工			
9	察打响应时间	$\leq 3 \sim 10$	s		典型值
10	干扰效能评估能力	具备			
11	侦测角度	360°			
12	干扰角度	360°			
13	自我定位	具备		IMU	
14	导航干扰、诱骗	具备			后续可软件升级
15	干扰处理方式			图像、视频干扰、替换	
16	机型数据库升级	具备		无人机机型数据库	数据库手动升级
17	支持 AI 协同能力	具备		接入 AI 节点固定站	后续可固件升级
18	频率扩展能力	具备			后续可更换 RF 选件
19	待机时间	≥ 4	h		

3. Handheld Reconnaissance-Strike C-UAV Device (for FPV VT System)

NO.	Item		Unit	Characteristics	Remarks
1	Frequency	0.3~6	GHz		Replaceable and Expandable RF Components
2	Weight	≤ 2	kg		Antenna Not Included
3	Dimensions	$\approx 255 \times 165 \times 55$	mm		L×W×D (Antenna Not Included)
4	Detection/Jamming Coverage	$R \geq 0.5 \sim 1$	km		
5	FPV Jamming-to-Signal Ratio	$\geq 3:1 \sim 5:1$			
6	Frequency Detection/Jamming Self-adaptation	Available			
7	Jamming Power Self-adaptation	Available			
8	Detection/Jamming Operating Mode	Full Duplex			
9	Detection & Countermeasure Response Time	$\leq 3 \sim 10$	s		Typical Value
10	Jamming Effectiveness Evaluation Capability	Available			
11	Detection Angle	360°			
12	Jamming Angle	360°			
13	Self-positioning	Available		IMU	
14	Navigation Jamming and Spoofing	Available			Software Upgradable
15	Jamming Processing Mode			Image and Video Jamming & Replacement	
16	UAV Model Database Upgrade	Available		UAV Model Database	Manual Database Upgrade
17	AI Collaboration Capability	Available		Accessible to AI Node Fixed-Station	Firmware Upgradable
18	Frequency Expansion Capability	Available			RF Module Replaceable
19	Standby Time	≥ 4	h		



4. 便携式察打设备（针对穿越机）

序号	项目		单位	特点	备注
1	频率	0.1~2.5	GHz		RF 组件可替换、可扩展
2	重量	≤5	kg		不含天线
3	尺寸	≈310×220×80	mm		长×宽×深（不含天线）
4	侦测干扰覆盖面积	$R \geq 1 \sim 3$	km		
5	FPV 干通比	$\geq 6:1 \sim 9:1$			
6	频率察打自适应	具备			
7	干扰功率自适应	具备			
8	侦察/干扰工作方式	全双工			
9	察打响应时间	≤3~10	s		典型值
10	干扰效能评估能力	具备			
11	侦测角度	360°			
12	干扰角度	360°			
13	自我定位	具备		IMU	
14	导航干扰、诱骗	具备			后续可软件升级
15	干扰处理方式	迫降、返航			
16	机型数据库升级	具备		无人机机型数据库	数据库手动升级
17	支持 AI 协同能力	具备		接入 AI 节点固定站	后续可固件升级
18	频率扩展能力	具备			后续可更换 RF 选件
19	待机时间	≥4	h		

4. Portable Reconnaissance-Strike C-UAV Device (for FPVs)

NO.	Item		Unit	Characteristics	Remarks
1	Frequency	0.1~2.5	GHz		Replaceable and Expandable RF Components
2	Weight	≤ 5	kg		Antenna Not Included
3	Dimensions	$\approx 310 \times 220 \times 80$	mm		L×W×D (Antenna Not Included)
4	Detection/Jamming Coverage	$R \geq 1 \sim 3$	km		
5	FPV Jamming-to-Signal Ratio	$\geq 5:1 \sim 8:1$			
6	Frequency Detection/Jamming Self-adaptation	Available			
7	Jamming Power Self-adaptation	Available			
8	Detection/Jamming Operating Mode	Full Duplex			
9	Detection & Countermeasure Response Time	$\leq 3 \sim 10$	s		Typical Value
10	Jamming Effectiveness Evaluation Capability	Available			
11	Detection Angle	360°			
12	Jamming Angle	360°			
13	Self-positioning	Available		IMU	
14	Navigation Jamming and Spoofing	Available			Software Upgradable
15	Jamming Processing Mode	Forced Landing/ Return Home			
16	UAV Model Database Upgrade	Available		UAV Model Database	Manual Database Upgrade
17	AI Collaboration Capability	Available		Accessible to AI Node Fixed-Station	Firmware Upgradable
18	Frequency Expansion Capability	Available			RF Module Replaceable
19	Standby Time	≥ 4	h		



5. 便携式察打设备（针对大疆、道通等无人机）

序号	项目		单位	特点	备注
1	频率	0.8~6	GHz		RF 组件可替换、可扩展
2	重量	≤5	kg		不含天线
3	尺寸	≈310×220×80	mm		长×宽×深（不含天线）
4	侦测干扰覆盖面积	$R \geq 1 \sim 3$	km		
5	FPV 干通比	$\geq 3:1 \sim 5:1$			
6	频率察打自适应	具备			
7	干扰功率自适应	具备			
8	侦察/干扰工作方式	全双工			
9	察打响应时间	≤3~7	s		典型值
10	干扰效能评估能力	具备			
11	侦测角度	360°			
12	干扰角度	360°			
13	自我定位	具备		IMU	
14	导航干扰、诱骗	具备			后续可软件升级
15	干扰处理方式	迫降、返航			
16	机型数据库升级	具备		无人机机型数据库	数据库手动升级
17	支持 AI 协同能力	具备		接入 AI 节点固定站	后续可固件升级
18	频率扩展能力	具备			后续可更换 RF 选件
19	待机时间	≥4	h		

5. Portable Reconnaissance-Strike C-UAV Device (for DJI/Autel, etc.)

NO.	Item		Unit	Characteristics	Remarks
1	Frequency	0.8~6	GHz		Replaceable and Expandable RF Components
2	Weight	≤5	kg		Antenna Not Included
3	Dimensions	≈310×220×80	mm		L×W×D (Antenna Not Included)
4	Detection/Jamming Coverage	$R \geq 1 \sim 3$	km		
5	FPV Jamming-to-Signal Ratio	$\geq 3:1 \sim 5:1$			
6	Frequency Detection/Jamming Self-adaptation	Available			
7	Jamming Power Self-adaptation	Available			
8	Detection/Jamming Operating Mode	Full Duplex			
9	Detection & Countermeasure Response Time	$\leq 3 \sim 7$	s		Typical Value
10	Jamming Effectiveness Evaluation Capability	Available			
11	Detection Angle	360°			
12	Jamming Angle	360°			
13	Self-positioning	Available		IMU	
14	Navigation Jamming and Spoofing	Available			Software Upgradable
15	Jamming Processing Mode	Forced Landing/ Return Home			
16	UAV Model Database Upgrade	Available		UAV Model Database	Manual Database Upgrade
17	AI Collaboration Capability	Available		Accessible to AI Node Fixed-Station	Firmware Upgradable
18	Frequency Expansion Capability	Available			RF Module Replaceable
19	Standby Time	≥ 4	h		



6. 背负式/移动式察打设备

序号	项目		单位	特点	备注
1	频率	0.1~6.2	GHz		RF 组件可替换、可扩展
2	重量	≤8	kg		不含天线
3	尺寸	≈310×280×110	mm		长×宽×深（不含天线）
4	侦测干扰覆盖面积	R≥3~5	km		
5	UAV 干通比	≥3:1~5:1			
6	FPV 干通比	≥5:1~10:1			
7	频率察打自适应	具备			
8	干扰功率自适应	具备			
9	侦察/干扰工作方式	全双工			
10	察打响应时间	≤3~7	s		典型值
11	干扰效能评估能力	具备			
12	侦测角度	360°			
13	干扰角度	360°			
14	自我定位	具备		IMU	
15	导航干扰、诱骗	具备			后续可软件升级
16	干扰处理方式	迫降、返航			
17	机型数据库升级	具备		无人机机型数据库	数据库手动升级
18	支持 AI 协同能力	具备		接入 AI 节点固定站	后续可固件升级
19	频率扩展能力	具备			后续可增加数据链选件
20	待机时间	≥6	h		

6. Backpack/Mobile Reconnaissance-Strike C-UAV Device

NO.	Item		Unit	Characteristics	Remarks
1	Frequency	0.1~6.2	GHz		Replaceable and Expandable RF Components
2	Weight	≤ 8	kg		Antenna Not Included
3	Dimensions	$\approx 310 \times 280 \times 110$	mm		L×W×D (Antenna Not Included)
4	Detection/Jamming Coverage	$R \geq 3 \sim 5$	km		
5	UAV Jamming-to-Signal Ratio	$\geq 3:1 \sim 5:1$			
6	FPV Jamming-to-Signal Ratio	$\geq 5:1 \sim 10:1$			
7	Frequency Detection/Jamming Self-adaptation	Available			
8	Jamming Power Self-adaptation	Available			
9	Detection/Jamming Operating Mode	Full Duplex			
10	Detection & Countermeasure Response Time	$\leq 3 \sim 7$	s		Typical Value
11	Jamming Effectiveness Evaluation Capability	Available			
12	Detection Angle	360°			
13	Jamming Angle	360°			
14	Self-positioning	Available		IMU	
15	Navigation Jamming and Spoofing	Available			Software Upgradable
16	Jamming Processing Mode	Forced Landing/ Return Home			
17	UAV Model Database Upgrade	Available		UAV Model Database	Manual Database Upgrade
18	AI Collaboration Capability	Available		Accessible to AI Node Fixed-Station	Firmware Upgradable
19	Frequency Expansion Capability	Available			Data Link Option Upgradable
20	Standby Time	≥ 6	h		

7. 固定站式（AI 节点中心）察打设备

序号	项目		单位	特点	备注
1	频率	0.1~6.2	GHz		RF 组件可替换、可扩展
2	重量	≤ 15	kg		不含天线
3	尺寸	$\approx 400 \times 380 \times 130$	mm		长 $\times$ 宽 $\times$ 深（不含天线）
4	干扰容量	≥ 30	架次	AI 管理下，可提高干扰容量	
5	侦测干扰覆盖面积	$R \geq 5 \sim 10$	km		
6	UAV 千通比	$\geq 5:1 \sim 8:1$			
7	FPV 千通比	$\geq 5:1 \sim 10:1$			
8	频率察打自适应	具备			
9	干扰功率自适应	具备			
10	侦察/干扰工作方式	全双工			
11	察打响应时间	$\leq 3 \sim 7$	s		典型值
12	干扰效能评估能力	具备			
13	侦测角度	360°			
14	干扰角度	360°			
15	自我定位	具备		IMU	
16	导航干扰、诱骗	具备			后续可软件升级
17	干扰处理方式	迫降、返航			
18	机型数据库升级	具备			数据库手动升级
19	AI 协同能力	具备		管理手持、便携、背负设备	支持固件升级
20	频率扩展能力	具备		可扩展到毫米波	可增加雷达、星链选件
21	敌我识别能力	具备			
22	待机时间	≥ 12	h		

7. Fixed-Station (AI Node Center) Reconnaissance-Strike C-UAV Device

NO.	Item		Unit	Characteristics	Remarks
1	Frequency	0.1~6.2	GHz		Replaceable and Expandable RF Components
2	Weight	≤ 15	kg		Antenna Not Included
3	Dimensions	$\approx 400 \times 380 \times 130$	mm		L×W×D (Antenna Not Included)
4	Jamming Capacity	≥ 30	Sortie	AI Enhances Jamming Capacity	
5	Detection/Jamming Coverage	$R \geq 5 \sim 10$	km		
6	UAV Jamming-to-Signal Ratio	$\geq 5:1 \sim 8:1$			
7	FPV Jamming-to-Signal Ratio	$\geq 5:1 \sim 10:1$			
8	Frequency Detection/Jamming Self-adaptation	Available			
9	Jamming Power Self-adaptation	Available			
10	Detection/Jamming Operating Mode	Full Duplex			
11	Detection & Countermeasure Response Time	$\leq 3 \sim 7$	s		Typical Value
12	Jamming Effectiveness Evaluation Capability	Available			
13	Detection Angle	360°			
14	Jamming Angle	360°			
15	Self-positioning	Available		IMU	
16	Navigation Jamming and Spoofing	Available			Software Upgradable
17	Jamming Processing Mode	Forced Landing/ Return Home			
18	UAV Model Database Upgrade	Available			Manual Database Upgrade
19	AI Collaboration Capability	Available		Manages Handheld, Portable, and Backpack Devices	Firmware Upgradable
20	Frequency Expansion Capability	Available		Expandable to Millimeter Wave	Optional Radar and Starlink Modules
21	IFF Capability	Available			
22	Standby Time	≥ 12	h		