# 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

**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 | ≈255×165×55 | mm | | L×W×D (Antenna Not Included) |
| 4 | Detection/Jamming Coverage | R≥0.5～1 | km | | Under Typical Frequency and Terrain Conditions |
| 5 | FPV Jamming-to-Signal Ratio | ≥5:1～8:1 | | | 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 | ≤3～10 | 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 | ≈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 | | |
| 5 | FPV 干通比 | ≥3:1～5:1 | | | |
| 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 | ≤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 | | | |
| 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 | ≈255×165×55 | mm | | L×W×D (Antenna Not Included) |
| 4 | Detection/Jamming Coverage | R≥0.5～1 | km | | |
| 5 | FPV Jamming-to-Signal Ratio | ≥3:1～5:1 | | | |
| 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 | ≤3～10 | 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 | ≈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 | | |
| 5 | FPV 干通比 | ≥3:1～5:1 | | | |
| 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 | ≤3～10 | 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 | ≈255×165×55 | mm | | L×W×D (Antenna Not Included) |
| 4 | Detection/Jamming Coverage | R≥0.5～1 | km | | |
| 5 | FPV Jamming-to-Signal Ratio | ≥3:1～5:1 | | | |
| 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 | ≤3～10 | 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≥1～3 | km | | |
| 5 | FPV 干通比 | ≥6:1～9:1 | | | |
| 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 | ≈310×220×80 | mm | | L×W×D (Antenna Not Included) |
| 4 | Detection/Jamming Coverage | R≥1～3 | km | | |
| 5 | FPV Jamming-to-Signal Ratio | ≥5:1～8:1 | | | |
| 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 | ≤3～10 | 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≥1～3 | km | | |
| 5 | FPV 干通比 | ≥3:1～5:1 | | | |
| 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≥1～3 | km | | |
| 5 | FPV Jamming-to-Signal Ratio | ≥3:1～5:1 | | | |
| 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 | ≤3～7 | 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 | ≈310×280×110 | mm | | L×W×D (Antenna Not Included) |
| 4 | Detection/Jamming Coverage | R≥3～5 | km | | |
| 5 | UAV Jamming-to-Signal Ratio | ≥3:1～5:1 | | | |
| 6 | FPV Jamming-to-Signal Ratio | ≥5:1～10:1 | | | |
| 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 | ≤3～7 | 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 | ≈400×380×130 | mm | | 长×宽×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≥5～10 | km | | |
| 6 | UAV 干通比 | ≥5:1～8:1 | | | |
| 7 | FPV 干通比 | ≥5:1～10:1 | | | |
| 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 | ≤3～7 | 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 | ≈400×380×130 | mm | | L×W×D (Antenna Not Included) |
| 4 | Jamming Capacity | ≥30 | Sortie | AI Enhances Jamming Capacity | |
| 5 | Detection/Jamming Coverage | R≥5～10 | km | | |
| 6 | UAV Jamming-to-Signal Ratio | ≥5:1～8:1 | | | |
| 7 | FPV Jamming-to-Signal Ratio | ≥5:1～10:1 | | | |
| 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 | ≤3～7 | 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 | | |