

DRONE READY
AERIAL RADIATION DETECTORS
DroneRAD Series

无人机气体辐射监测器，DroneRAD 系列

Model ~ DroneRAD-ST (Search Tool or Mapping) – Gamma

型号 DroneRAD-ST (搜索/测绘工具) – γ

Model ~ DroneRAD-P (Air Monitor & Plume Detector)

型号 ~ DroneRAD-P (空气监测器 & 羽状图探测器)

粒子 & 气溶胶化学物 – α , β , γ



[View the DroneRAD Video](#)
点击查看录像

CYPHER 6 Drone with DroneRAD Detector System

CYPHER 6 无人机与 DroneRAD 探测系统

SITUATION: 状况

The advent of data collection by drones is a great advance.
无人机数据收集是一个巨大的进步

Cameras and other more specialized sensors are popular.

照相机和其它专用传感器使用广泛

However, nuclear radiation sensor assembly instrumentation is important but hard to find.

然而，核辐射传感器设备非常重要但很难找到

US Nuclear Corp provides a DroneRad package.

US Nuclear Corp. (美核公司) 提供 DroneRad 成套设备

INSTALL THE DroneRAD Detector System on your Drone

在你自己的无人机上安装 DroneRAD 探测系统
OR
或者

Purchase DroneRAD Package
购买 DroneRAD 成套设备

Includes: 包括

Drone-Cypher 6
无人机 - Cypher 6

Controllers
遥控器

DroneRAD Detector System
DroneRAD 探测器系统

Training
培训

Hard Shell Case for DroneRAD Package
DroneRAD 成套设备坚固的外包装箱

CLICK TO SEE DroneRAD APPLICATIONS
点击此处查看 DroneRAD 应用



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Divisions of  **US NUCLEAR CORP**

TICKER UCLE

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FEATURES

DroneRAD Detector System

DroneRAD 探测系统特点

EASY INSTALLATION 易于安装

DroneRAD-ST & DroneRAD-P

- CONTINUOUS CHECK MONITORING 连续监测
- SMALL, RUGGED, SPLASH PROOF 小巧坚固防水溅
- WIDE RANGE COVERED 宽量程
- ON BOARD CAMERA 机载摄像头
- GPS GPS 系统
- DETECTORS BATTERY OPERATED
电池供电探测器
- ONBOARD DATA STORAGE SERIAL PORT
机载数据存储串口
- UNIQUE DATA COLLECTION SOFTWARE INCLUDED
包括独特数据收集软件
- RS-232 PORT / **OPTIONAL: USB PORT**
RS-232 接口/可选 USB 接口
- ELECTRONICS BASE STATION: 电子学基站
FM-9W (AC Operated) OR (AC 线或车载电池)
Vehicle Operated
TBM-3D (Portable) (便携式)
- WIRELESS IN FLIGHT INTERFACE
飞行中无线接口
- **OPTIONAL: DATA TRANSMISSION IN FLIGHT IN N4242 FORMAT**
选项: 飞行中 N4242 格式数据传输接口
- **OPTIONAL RADIATION PLUME MAPPING DATA SOFTWARE FOR POST-FLIGHT EVALUATION**
选项: 辐射羽状图数据软件用于飞行后评估
- **OPTIONAL: ALARM**
选项: 报警
- **OPTIONAL: ENHANCED GPS 选项加固 GPS**
- **DETECTOR: IP64 探测器: IP64**
- **ELECTRONICS: IP 63 电子学: IP63**

DroneRAD-ST

- GAMMA DETECTION 伽马探测
- SENSITIVE – $1 \mu\text{R}/\text{HR}$ RESOLUTION
灵敏度-分辨率 $1 \mu\text{R}/\text{HR}$
- ISOTOPE IDENTIFICATION
同位素识别
- **OPTIONAL: NEUTRON DETECTION**
选项: 中子探测
- **OPTIONAL: GAMMA TELESCOPE/COLLIMATOR FOR PRECISELY LOCATING A SOURCE**
选项: 伽马, 使用望远镜/准直仪精确锁定辐射源

DroneRAD-P

- ALPHA, BETA, GAMMA, C-14 DETECTION
 $\alpha \beta \gamma$ 和 C-14 监测
- SENSITIVITY – 1×10^{-10} TO $1 \times 10^{-5} \mu\text{Ci}/\text{cc}$ (OR Ci/m^3) - DEPENDS ON COUNT TIMES
灵敏度- 1×10^{-10} - $1 \times 10^{-5} \mu\text{Ci}/\text{cc}$
- QUICK CHANGE FILTER 快速更换过滤器
- MULTIPLE SPECIALIZED FILTER MEDIA ACCEPTABLE
可使用多种专用过滤介质
- SNIFFER HOSE 3 FEET or USER SPECIFIED
3 英尺长嗅探管或用户指定长度
- USB or OPTIONAL ETHERNET INTERFACE
USB 或其它可选以太网接口
- AUTOMATIC ADJUSTMENT OF ALPHA SPECTRUM BASED ON ELEVATION
根据高度自动调整 α 能谱
- RECORDS CHANGES IN AIRBORNE CONCENTRATION BY LOCATION
按地点记录气溶胶浓度变化
- **OPTIONAL: ALPHA SPECTRUM DETECTOR**
选项: α 能谱探测器



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粒子 & 气溶胶化学物 – α , β , γ



DroneRAD-P

**Air Pump, Filter
Holder & Detector**

气泵，过滤托
和探头

DESCRIPTION: 描述

DroneRAD-ST:

- Measures Gamma & X-Ray radiation & **OPTIONAL** Neutron levels.
测量 γ 和 X 射线辐射，可选中子测量
- **OPTIONAL** downward looking Gamma & Fast Neutron spotters are available for building and facility air surveillance.
选择 俯视建筑设施内伽马 & 快中子监测
- Isotope identification.
同位素识别

DroneRAD-P:

- Measures radiation levels of Alpha, Beta, Gamma for airborne gases and particulates.
测量气溶胶和粒子中的 α , β , γ 辐射

**SELECT THE DroneRAD PACKAGE
OR
SELECT A DRONE TYPE &
EASILY MOUNT THE DroneRAD DETECTOR System.**

选择 DroneRAD 整套组件
或者
自己选择无人机，DroneRAD 探测系统易于安装



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DroneRAD Detector System

DroneRAD 探测系统特点

APPLICATION: 应用

DroneRAD-ST

- Ground-based Gamma source detection
地面伽马源探测
- Cosmic ray and solar wind measurements
宇宙射线和太阳风测量

DroneRAD-P

- Airborne radioactive plume mapping (Alpha, Beta, Gamma)
气溶胶辐射羽状图绘制 (α β γ)

DATA: 数据

DroneRAD-ST

- Gamma Spectra, from NaI or LaBr detector with MCA
多道分析仪碘化钠或 LaBr 探测器伽马能谱

DroneRAD-P

- Alpha, Beta Gamma Particulate plume concentration
 α β γ 粒子羽状图浓度

DroneRAD-ST & DroneRAD-P

- Dose Rate
剂量率
- Data points & time are logged with GPS coordinates.
数据点和时间以 GPS 坐标形式录入
- Data storage of both Spectra & Dose Rate ~ DroneRAD-ST
能谱 & 剂量率数据存储 ~ DroneRAD-ST
- Particulate Levels. ~ DroneRAD-P
粒子辐射浓度. ~ DroneRAD-P



**DroneRAD-ST & DroneRAD-P
DETECTOR FLIGHT PACKAGE**



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FEATURES

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DroneRAD 探测系统特点

DESCRIPTION: 描述 DroneRAD-ST

- Identify Isotopes Instead Of Quantify Isotopes.
识别核素而不是量化同位素
- GPS & Optional Mapping Software Provides Site Identification
GPS & 可选绘图软件提供现场识别

DroneRAD-P

- Measures levels of airborne gases & Particulates: Alpha, Beta, Gamma, C-14
测量气溶胶和粒子: α β γ 和 C-14
- Plume mapping with unique software
专用软件绘制羽状图地图

ON BOARD – DroneRAD-ST	
Detector:	2" x 2" NaI(Tl) Gamma Scintillator
探头:	2" x 2" NaI(Tl) 伽马闪烁体
Electronics: 电子学	
Pre Amp	前置放大器
High Voltage 高压	
1000+ Channel MCA 多道分析仪	
Microprocessor 微处理器	
Transmitter 发射器	
Camera 照相机	
GPS	
Battery Pack 电池组	

ON BOARD – DroneRAD-P	
Detector:	1" diameter Thin Window GM
探测器:	直径 1" 薄窗 GM 管
Electronics: 电子学	
Pre Amp	前置放大器
High Voltage 高压	
Counter 计数器	
Air Pump – 3 lpm 气泵	
Transmitter 发射器	
Particulate Filter 粒子过滤器	
Flow Meter 流量计	
Camera 照相机	
GPS	
Battery Pack 电池组件	



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DESCRIPTION: 描述 DroneRAD-P

- The **Drone-RAD-P** uses standard or charcoal filters in TA's unique quick change, no leak holders to trap any airborne radio-nuclides. The filter is under constant surveillance via a GM detector.
型号 **Drone-RAD-P** 使用标准的过滤器或 TA 公司独特快速更换的活性炭过滤器系统，密封卡托捕获任何气溶胶辐射核素。GM 管探头持续监视过滤器
- Air is drawn by a high volume pump through the filter and exhausted through an optional hose.
大容量泵通过过滤器抽进气体，通过排气管排出
- Power is controlled by a rocker switch.
电源由摇臂开关控制

SPECIFICATIONS: 规格 DroneRAD-P

Air Flow Pump:

气泵:

Miniature 1-3 Liter/min Pump and Filter holder.

小型泵 1-3 升/分钟和过滤器托

Range:

量程:

1×10^{-10} to $1 \times 10^{-5} \mu \text{ Ci/cc}$ (or Ci/m^3) (Depends on count time)

1×10^{-10} - $1 \times 10^{-5} \mu \text{ Ci/cc}$ (或 Ci/m^3) (根据计数时间)

Air Flow Meter:

空气流量计:

Displays flow rate 0.5 – 3.0 LPM.

显示流量 0.5 – 3.0 LPM.

Filters:

过滤器:

Includes package of 100 glass Fiber and 10 charcoal filter papers.
(Can also use membrane filters.)

包括 100 片玻璃纤维滤网和 10 片炭过滤纸 (可选过滤膜)

Sniffer Hose:

探测管:

Up to 3 Feet

达 3 英尺

Case:

外箱:

Air Pump & Detector housed in polished blue aluminum.

气泵和探头封装在抛光铝中

Weight & Dimensions:

重量 & 尺寸

Pump & Detector Assembly:

泵 & 探头组件:

1.75" Diameter x 8.5" Long

直径 1.75" x 长 8.5"

NOTE: Supplied with 10 charcoal and 100 glass fiber filter disks.

注: 提供 10 片活性炭和 100 片玻璃纤维滤片



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粒子 & 气溶胶化学物- α , β , γ

Detector: 探测器	T-1210 GM Tube GM管
Window: 窗	Mica 1.5 - 2.0 mg/cm ² 1.5 - 2.0 mg/cm ² 厚云母窗
Detector: Radiation 探测器: 辐射	Alpha, Beta, Gamma α β γ
Biological Hazards: 生物有害物 Chemical Hazards: 化学有害物	User Specific Filter User Specific Filter 用户指定过滤器
Iodine: 碘	Carbon Filter 炭过滤器
Detects Particulates: 探测粒子	YES 是
Detects Aerosol & Reactive Gases*: 监测气溶胶&活性气体	YES 是
Filter: Glass Fiber - 过滤器: 玻璃纤维 Charcoal Filter Paper- 1" dia 活性炭滤纸-直径1"	YES YES 是
Iodine Sensitivity: (30 min) 碘灵敏度 (30分钟)	5×10^{-8} μ Ci/cc
Public Release: (1 x 10⁻¹⁰ μCi/cc) 公共排放(1 x 10⁻¹⁰ μCi/cc)	10 Hour exposure 10小时暴露
Detects all airborne activity EXCEPT - H-3,Fe-55 and Noble Gases 检测除了H-3,Fe-55和惰性气体外的所有气溶胶活度	YES 是



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**DroneRAD GROUND STATION ELECTRONICS OPTIONS
DroneRAD 地面站电子学选项**

FM-9W	DroneRAD-E
Transponder 应答器	Transponder 应答器
Isotope Identification – DroneRAD-ST 核素识别	Isotope Identification – DroneRAD-ST 核素识别
Spectrum Receiver – DroneRAD-ST 能谱接收器	Spectrum Receiver – DroneRAD-ST 能谱接收器
Display: 7" Color LCD 显示 7 寸彩屏	Display: Lap Top Read Out (User Provided) 显示: 用户提供笔记本电脑
Data Archive & Retrieval 数据存储及检索	Amplifier & Signal Conditioner 放大器及信号调节器
Unique Data Retrieval Software 专用数据检索软件	Data Archive & Retrieval 数据存档与检索
Power: AC or Vehicle Operated 电源: AC 或车载电池充电	Power: Rechargeable Battery Pack 电源: 可充电电池组件
Alarm: Audio / Visual (User Settable) 报警: 视听 (用户设定)	Software: US Nuclear Corp Provided 软件: (美核公司提供)
OPTIONAL: Mapping Software for Post Flight Evaluation 选项: 地图绘制用于飞行后评估	USB Port & Cable USB 接口和缆线
	Alarm: Audio / Visual (User Settable) 报警: 声音/视觉 (用户设定)
TBM-3D – Simple Read Out TBM-3D-简单读数器	OPTIONAL: Mapping Software for Post Flight Evaluation 选项: 地图绘制用于飞行后评估
Display: 2" 8 Digit LCD 显示: 2 寸 8 位数字 LCD	
2 Separate Scale Factors for Rate & Total 2 个独立标定因子用于剂量率和总计数	
Power: Portable Battery Operated 电源: 便携电池	
OPTIONAL: Alarm: Audio / Visual (User Settable) 选项: 报警: 视图 (用户设定)	



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SPECIFICATIONS: 规格

DETECTOR WEIGHT & DIMENSIONS: 探测器重量和尺寸

Approximate Volume:	144 cu. Inches
体积:	144 立方英寸
Approximate Weight:	重量
Gamma spec:	<5 lbs – DroneRAD-ST
Alpha/Beta/Gamma spec:	<6 lbs – DroneRAD-P
Approximate Dimensions:	4" High x 10" Long x 2" Wide - DroneRAD-ST & DroneRAD-P
尺寸:	4" 高 x 10" 长 x 2" 宽

COMMUNICATION: 通信

Integrates into Existing Formats. 与现有软件格式兼容

POWER REQUIREMENTS - DroneRAD-ST & DroneRAD-P

电源要求

Rechargeable Batteries Included. 可充电电池

SPECIFICATIONS ~ ELECTRONICS:

规格~电子学:

FM-9W:

Face Plate:	On/Off Toggle Switch Reset Push Button
面板:	棒式开/关, 重设按钮
Display:	7" Digital LCD, Touch Screen
显示:	7 英寸数字 LCD, 触摸屏
Case:	Gasketed Aluminum Case
外箱:	密封铝箱

Alarms: Visual / Audio – User Settable

报警: 视听-用户设定

Over Range: On Screen Alert 过量程屏幕报警

Self-Check On Screen 自检屏幕显示

Read Out: DroneRAD-P: uCi/l

读出:



FM-9W



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DroneRAD-ST: cps with Isotope Identification

DroneRAD-ST: 读出 cps 带核素识别

Power: 115V, **OPTIONAL** 230V

电源:

Dimensions: 11" x 11" x 11"

尺寸:

Weight: 12 lbs

重量:

TBM-3D – Lightweight, Simplified Read Out

Face Plate: On/Off Toggle Switch

Battery Test Push Button

Low Battery Alert Red Light

前板: 棒式开关, 电池检测按钮, 低电红灯报警

Display: 2" 8 Digit LCD

2 Separate Scale Factors for Rate & Total

显示: 8 位数 LCD2 寸显示

2 个独立标定因子, 剂量率和总剂量

Power: 6 AA Batteries

电源: 6 节 AA 电池

Case: Gasketed Aluminum Case

外箱: 密封铝壳

Alarms: **OPTIONAL Visual / Audio – User Settable**

报警: 选择视听报警-用户设定



TBM-3D

Read Out: **DroneRAD-P:** uCi/l of Airborne Contamination

读出: 气溶胶污染 uCi/l

DroneRAD-ST: cps with Isotope Identification

单位 CPS 带核素识别

Dimensions: 3" x 5.3" x 3"

尺寸:

Weight: 21 oz

重量:



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型号 DroneRAD-ST (搜索/测绘工具) – γ

Model ~ DroneRAD-P (Air Monitor& Plume Detector)

型号~ DroneRAD-P (空气监测器&羽状图探测器)

粒子 & 气溶胶化学物- α , β , γ

DroneRAD-E:

Display: Lap Top (User Provided)
显示: 笔记本电脑 (用户提供)

Software: US nuclear Provided
软件: 美核公司提供

Power: Rechargeable Battery Pack
电源: 可充电电池组件

Case: Gasketed Case
外箱: 密封箱

Alarms: **OPTIONAL Visual / Audio – User Settable**
报警: 可选视听报警-用户设定

Dimensions: 3" x 2" x 6"
尺寸:

Weight: 3 lbs
重量:

OPTIONS: RS-232 serial circuit 串口
选择: In-place rechargeable batteries 内置可充电电池
Enhanced GPS 增强型GPS

**TBM-3D
MANUAL PLUG IN FOR
IN-FIELD SIMPLE DATA
READ OUT**

TBM-3D ELECTRONICS



**CYPHER 6 DRONE with DroneRAD DETECTOR
10 POUND LOAD CAPACITY**



**DroneRAD DETECTOR
INSTALLATION**



**TECHNICAL ASSOCIATES
OVERHOFF TECHNOLOGY**

7051 Eton Ave., Canoga Park, CA 91303
818-883-7043 (Phone) 818-883-6103 (Fax)

tagold@nwc.net

WWW.TECH-ASSOCIATES.COM

Divisions of  US NUCLEAR CORP

TICKER UCLE

DRONE READY AERIAL RADIATION DETECTORS

DroneRAD Series

无人机气体辐射监测器，DroneRAD 系列

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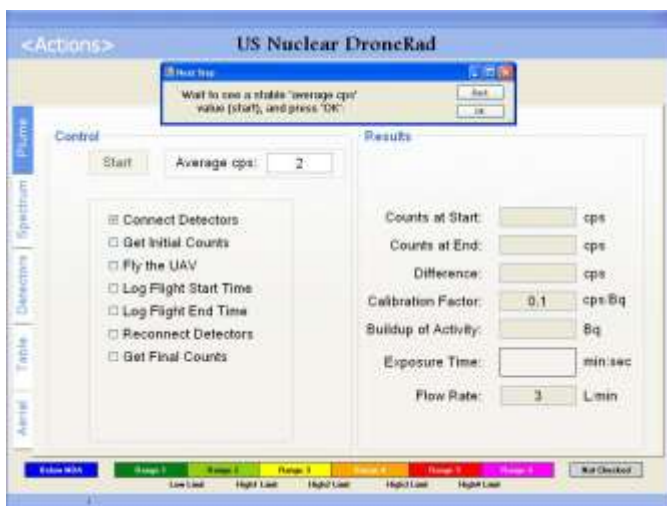
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FM-9W - ELECTRONICS READ OUT DroneRAD-ST SAMPLE



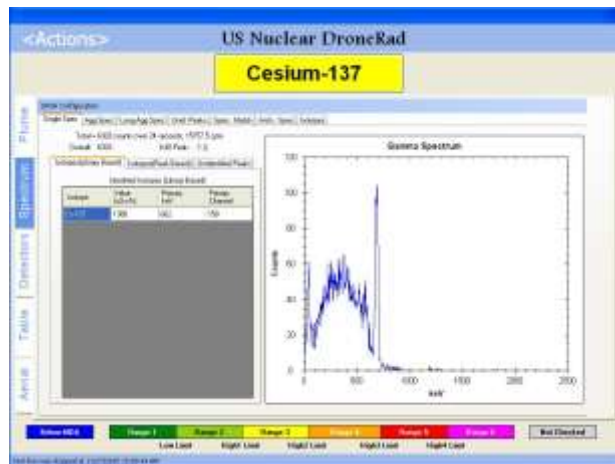
DroneRAD-P
BEFORE FLIGHT



DroneRAD-P
BEFORE PLUME



DroneRAD-P
AFTER FLIGHT



DroneRAD-ST
SEARCH TOOL RESULTS



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粒子 & 气溶胶化学物 – α , β , γ

DroneRAD PACKAGE

整套组件包括

INCLUDES:

- **Cypher 6 – Drone 无人机**
- **Hi Definition Camera 高分辨照相机**
- **GPS 定位系统**
- **Controllers 控制器**
- **DroneRAD Detector System 探测系统**
- **Training 培训**
- **Hard Shell Case for DroneRAD Package 整套组件硬外壳**

DroneRAD DETECTOR SYSTEM

探测系统包括

INCLUDES:

- **DroneRAD-ST Detector 探头**
- **DroneRAD-P Detector**
- **Electronics 电子学**
- **Unique Data Collection Software 专用数据收集软件**
- **Wireless Interface 无线接口**
- **USB Port USB 接口**
- **Necessary Cords, Cables & Connectors 数据线, 缆线和连接件**
- **Charcoal & Glass Fiber 炭/玻璃纤维过滤器
Filters for DroneRAD-P**

DroneRAD DETECTOR SYSTEM OPTIONS: 探测系统选项

- **ELECTRONICS: 电子学**
 - **FM-9W, DroneRAD-E, or TBM-3D**
- **ENHANCED GPS 增强型 GPS**
- **ALPHA SPECTRUM DETECTOR – DroneRAD-P**
 - α **能谱探测器**
- **ALARM – AUDIO/VISUAL**
 - 报警-声音/视觉**
- **PLUME MAPPING SOFTWARE**
 - 羽状图绘制软件**
- **IN-PLACE RECHARGEABLE BATTERIES – TBM-3D**
 - 内置可充电电池-TBM-3D**



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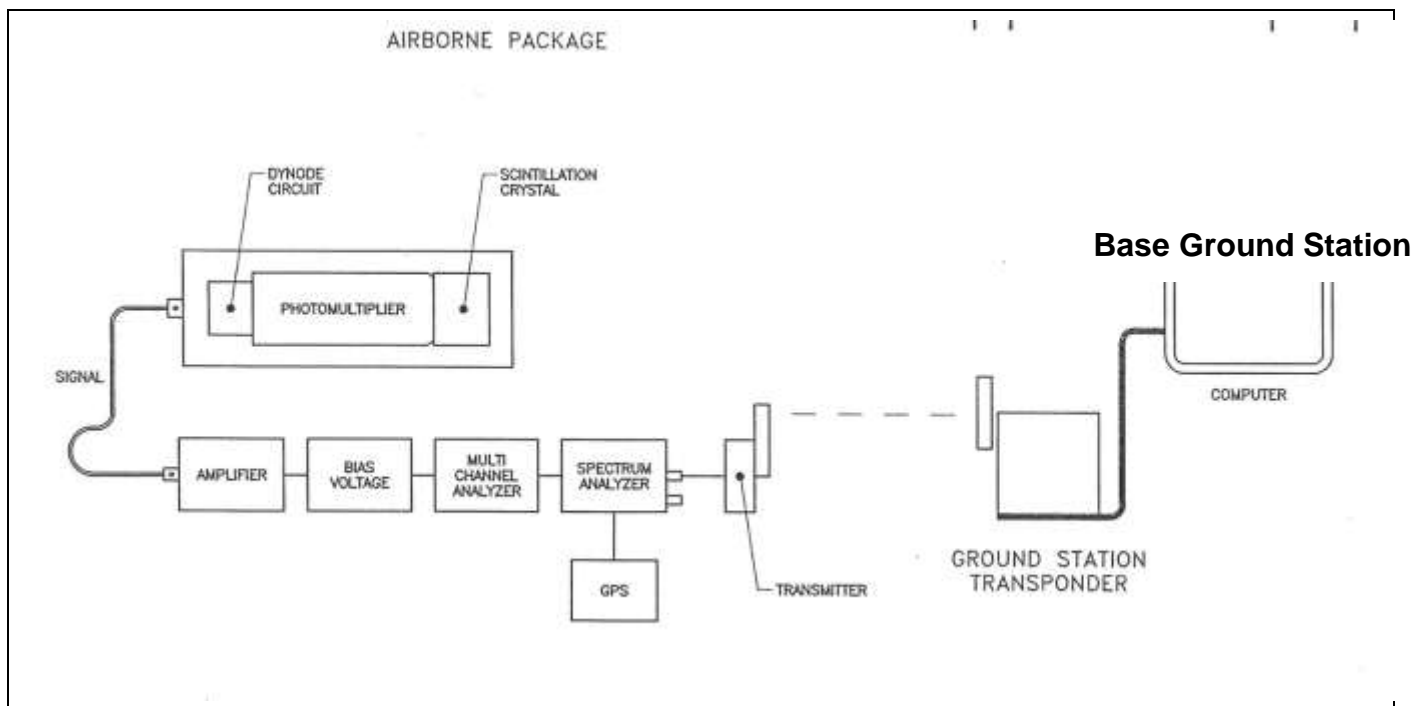
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粒子 & 气溶胶化学物 – α , β , γ



DroneRAD-ST Detector Set Up



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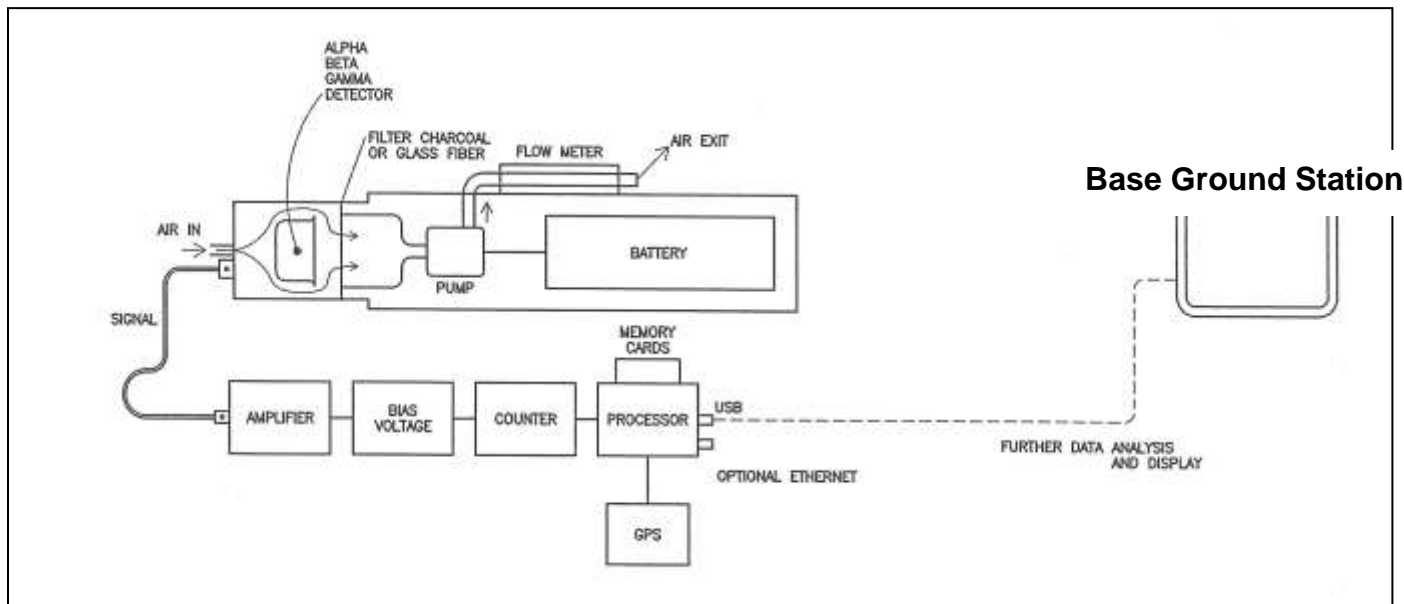
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型号 ~ DroneRAD-P (空气监测器 & 羽状图探测器)

粒子 & 气溶胶化学物 – α , β , γ



DroneRAD-P Detector Set Up



**POST FLIGHT QUICK
CONNECT TO READ OUT**

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粒子 & 气溶胶化学物 – α , β , γ

CYPHER 6

DRONE by FlyCam UAV

DEVELOPED & MANUFACTURED IN USA



CYPHER 6

SPECIFICATIONS: 规格

DESIGN 设计

- 6 Motor Copter (Hexacopter) 6 旋翼
 - Commercial Grade Heavy Lift UAS Motors 商业级
 - 15" Carbon Fiber composite Propellers 碳纤维螺旋桨
 - Folding Frame 折叠架
 - **Optional:** Weather Proof Canopy 可选遮雨棚

FLIGHT CONTROLLER 控制器

- Precision Commercial Grade GPS Flight Controller with GPS Position Hold 商业级 GPS 飞行控制器
 - Intelligent Flight Modes 智能飞行模式
 - Autonomous Waypoint Capability 自主飞行能力
 - Automatic Return to Home 自动返航
 - Flight Telemetry Overlay 飞行遥测覆盖

POWER 电源

- Longer Flight Times – Up to 30 Minutes 更长飞行时间-达 30 分钟
- 6 Motors for Redundancy 6 旋翼
- Bearings Provide 100s of Hours of Flight Time 轴承提供 100 多小时飞行时间
- 10 Pound Payload 10 磅有效负荷

CAMERA 照相机

- 3 Axis Gimbal Mounted 3 轴万向节安装
- High Definition – UHD4K 高分辨率
- Real-Time Video Downlink 实时录像下行传输



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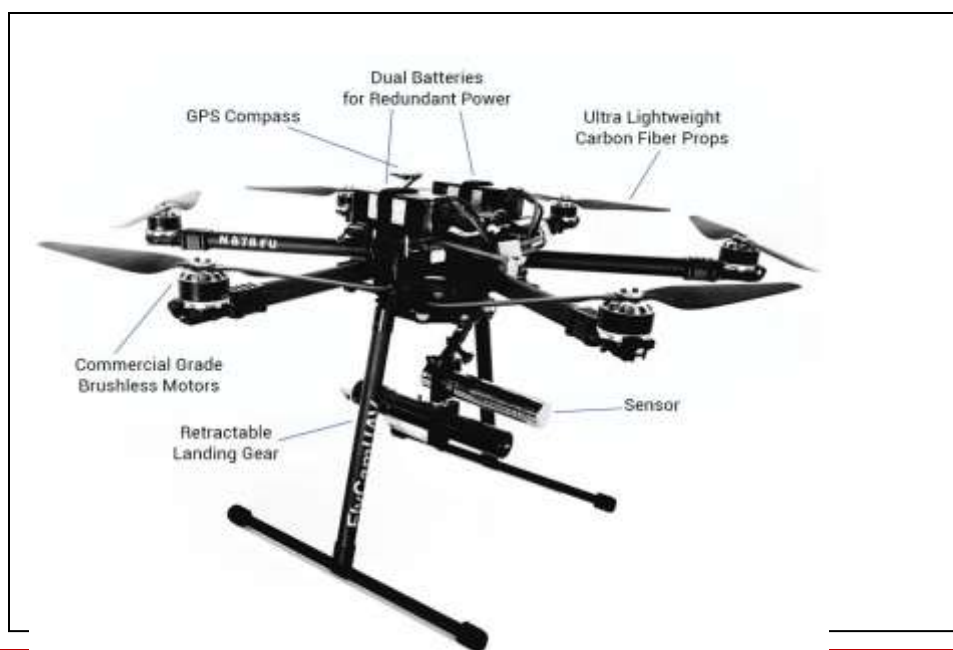
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CYPHER 6 ~ DRONE

The 10 Pound Payload Provides the Opportunity for Multiple Sensors: Radionuclide, Biological, Chemical, Thermal

10 磅有效负荷可以允许多探头：核辐射，生物，化学，热点



- With 6 commercial/industrial grade motors the risk of crashing during operation is significantly reduced, unlike 4 motor copters.
6 旋翼工业级与 4 旋翼无人机相比降低失事风险
- Utilizing commercial/industrial grade materials ensures quality and durability.
使用商业级材料以保证质量和耐久性
- With a dual battery system flight times can be extended for mission critical operations.
双电池系统完成重要使命时可延长飞行时间
- The commercial/industrial grade GPS system provides exceptional location enhancement.
商业级 GPS 系统提供了极其良好定位
- The 3 axis gimbal mounted UHD 4K camera provides superb viewing.
3 轴万向节安装 UHD 和 4K 照相机提供了极好的视野



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