

DroneRAD APPLICATIONS

~ NUCLEAR ~ RADIOLOGICAL ~ CHEMICAL ~ OTHER ~
SURVEILLANCE ~ DETECTION ~ MONITORING

DroneSENSOR™ THE ULTIMATE TOOL FOR FIRST RESPONDERS©



**FlyCam UAV's
NEO Octocopter with
DroneRAD Detector
System**

[View the DroneRAD
Video](#)

DroneRAD-ST

- ❖ **GAMMA RADIATION SURVEYS**
 - LOST / ABANDONED / TERRORIST GAMMA SOURCES:
 - ON THE GROUND
 - IN BUILDINGS
 - IN VEHICLES OR TRANSPORT
 - SIMPLE INDUSTRIAL / SCIENTIFIC SOURCES
- ❖ **URANIUM SURVEYS**
 - ABANDONED URANIUM MINES
 - ABANDONED RADIOACTIVE LANDFILLS
 - K-40 SURVEYING
- ❖ **BACKGROUND RADIATION SURVEYS**
 - HOUSING DEVELOPMENT
 - FACILITY CONSTRUCTION
 - BACKGROUND RADIATION MAPPING
 - WIDE AREAS

DroneRAD-P

- ❖ **AIRBORNE HAZARD MONITORING**
 - RADIOACTIVE PARTICULATES
 - RADIOACTIVE GASES INCLUDING RADON / THORON
- ❖ **GAS FILTER COLLECTIONS**
 - CHLORINE
 - BIOLOGICAL PARTICULATES & AEROSOLS (ANTHRAX, NERVE GAS)

*This fast to deploy system
can be airborne
in under 5 minutes*



US NUCLEAR CORP

usnuclearcorp.com ~ penny@usnuclearcorp.com

Office: 818-883-7043 ~ Direct: 818-992-1323

FLYCAM
UAV

flycamuav.com ~ jeri@flycamuav.com

Office: 818-678-9151

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SITUATION:

The advent of data collection by drones is a great advance.

Cameras and other more specialized sensors are popular.

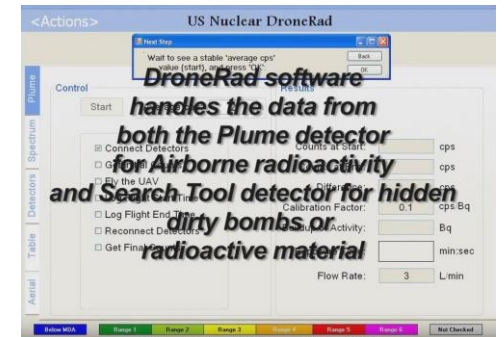
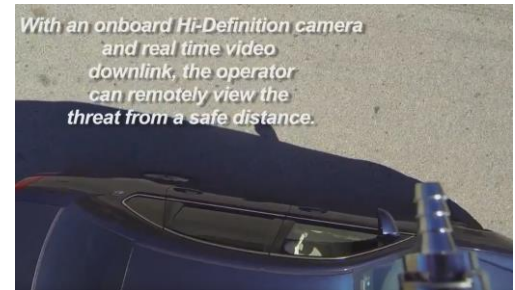
However, nuclear radiation sensor assembly instrumentation is important but hard to find.

US Nuclear Corp provides the DroneRad package.

Purchase DroneRAD Package

INCLUDES:

- ❖ FlyCam UAV's **NEO or ZOE** -Drone
- ❖ Camera
- ❖ GPS
- ❖ Controllers
- ❖ DroneRAD Detector System & Electronics
- ❖ Hard Shell Case for DroneRAD Package
- ❖ OPTIONAL: Training
- ❖ OPTIONAL: High Definition Camera
- ❖ **SEE DETECTOR & UAV SPECIFICATIONS on DroneRAD Spec Sheet**



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NUCLEAR POWER PLANTS

Stack Effluents

Alpha, Beta, Gamma Particulates

Gamma Emissions

Radioactive Waste or Effluent

Security & Maintenance Compliance



VIDEO

Physical Security – Perimeter

Access Points – Roads

Structure Integrity

THERMAL

Electric Power Generation & Distribution

Electric Switchyard

High Voltage Lines

Hot Spots due to Insulation Failure

Heat Signatures prior to Fire Ignition

Improper Heat Stoichiometry from Stack Emissions

Fire Suppression

Agricultural



SENSORS

CHEMICALS & LEL

Chlorine

Methane

Ammonia

Diesel Fumes & Particulates

CO Carbon Monoxide

O₂ Oxygen

H₂S Hydrogen Sulfide

CO₂ Carbon Dioxide

NO₂ Nitrogen Dioxide

SO₂ Sulfur Dioxide

O₃ Ozone

VOC

Fine Particulates

CWAs



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AERIAL RADIATION DETECTION IS INVALUABLE:

- SAVE MANHOURS COMPARED TO HANDHELD DETECTION OF LARGE AREAS
- REMOTE DETECTION OF SMUGGLED SOURCES PROTECTS THE OPERATOR
- REMOTE SURVEILLANCE OF BUILDINGS AND VEHICLES
- MAP AIRBORNE PLUME EMISSIONS FROM STACK OR OTHER SOURCES
- MAP BACKGROUND RADIATION OF LARGE AREAS
- MONITOR FACILITY PERIMETERS, MAINTAIN REGULATORY COMPLIANCE
- AVOID EXPOSURE DURING A QUESTIONABLE EVENT
- OPTIONAL SENSE & AVOID

AERIAL SENSOR DETECTION IS INVALUABLE:

- CHEMICAL
- BIOLOGICAL
- TEMPERATURE
- HUMIDITY
- VOC
- SECURITY



NEO with DroneRAD-ST Detector System



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