

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)

Can Be Deployed In 5 Minutes



**FLYCAM
UAV**

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US NUCLEAR CORP
TICKER UCLE

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SITUATION:

Cameras and thermal sensors are popular applications for drone technology.

Data collection by drones is a great advance.

Unfortunately, radiation detection was still performed by people on the ground.

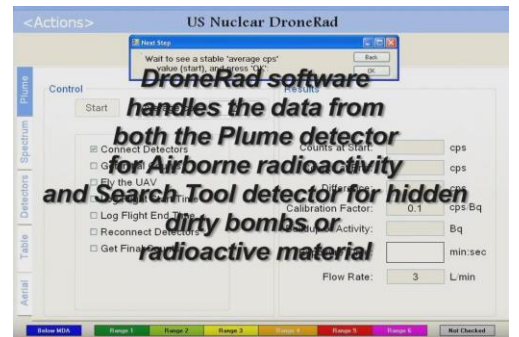
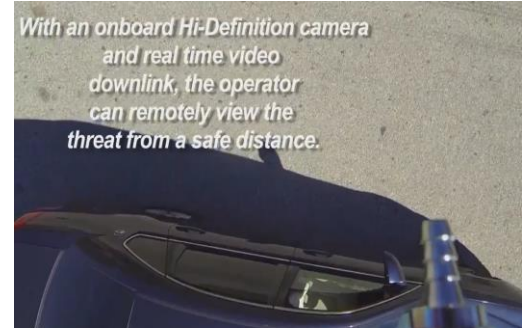
UNTIL NOW

US Nuclear Corp provides the DroneRad package.

Purchase DroneRAD Package

INCLUDES:

- ❖ FlyCam UAV's NEO or Cypher 6 - UAV
- ❖ Camera
- ❖ GPS
- ❖ Controllers
- ❖ DroneRAD Detector System & Electronics
- ❖ OPTIONAL: Training
- ❖ OPTIONAL: Hard Shell Case for DroneRAD Package
- ❖ OPTIONAL: High Definition Camera
- ❖ SEE DETECTOR SPECIFICATIONS
- ❖ SEE UAV SPECIFICATIONS



DroneRad software handles the data from both the Plume detector for Airborne radioactivity and Search Tool detector for hidden dirty bombs of radioactive material



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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

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

Temperature & Humidity



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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

AERIAL SENSOR DETECTION IS INVALUABLE:

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



NEO with DroneRAD Detector System



CYPHER 6 UAV
by FlyCam UAV



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