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

DroneSENSOR™ THE ULTIMATETOOL 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

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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

With an onboard Hi-Definition camera and real time video downlink, the operator can remotely view the threat from a safe distance.

US Nuclear DroneRad

DroneRad software handles the data from both the Plume detector for Airborne radioactivity and Search Tool detector for hidden dirty bombs or radioactive material.
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NUCLEAR POWER PLANTS
Stack Effluents
  Alpha, Beta, Gamma Particulates
  Gamma Emissions
Radioactive Waste or Effluent
Security & Maintenance Compliance

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

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
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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

ZOE with DroneRad P

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