

## US NUCLEAR CORP ANNOUNCES AERIAL RADIATION DETECTION

**US Nuclear Corp** is proud to announce the Aerial Radiation Detection instruments of the DroneRAD system.

In this time of multiple threats to our security: dirty bombs; cyber crime; shooters in public places; homemade bombs; misinformation; etc. we feel extremely vulnerable; perhaps more vulnerable than ever before.

With the advent of Drone technology now available for commercial applications, technology previously only held by the military, the opportunity has come to unite Drone Technology with aerial sensors. Drone mounted aerial sensors are typically: thermal, radar, camera, surveillance, and sensors mounted on UAVs (Unmanned Aerial Vehicles).

**Now there is the DroneRAD.** Radiation detection instruments mounted on a Drone for aerial radiation detection, surveillance, and locating. **Technical Associates**, a division of **US Nuclear Corp**, provides sensors for both airborne radiation and for the search and location of radioactive materials: Alpha, Beta, Gamma, Neutron. Gas filter sample collection for chlorine, biological particulates, and aerosols such as anthrax and nerve gas is also available via the **DroneRAD**.

Partnering with *FlyCam UAV* the **DroneRAD** detector system is mounted on *FlyCam UAV's Cypher 6* drone for Aerial Radiation Detection, the first of its kind. Utilizing a six motor drone copter provides security, a ten pound payload, and longer flight times. Applications for this technology are diverse such as airborne radiation detection in terms of a plume, search detector for dirty bombs or questionable packages, field surveys for depleted uranium.

The benefits of Aerial Radiation Detection are many including: saving man hours compared to handheld detection of large areas; protection of the operator by remote detection of smuggled source; remote surveillance of buildings and vehicles; mapping airborne plume emissions from stacks or other sources; mapping background radiation of large areas; monitoring facility perimeters which promotes maintaining regulatory compliance; avoiding exposure during a questionable event.

**US Nuclear Corp** provides the **DroneRAD Detector System**: sensors and software and readout technology; *FlyCam UAV's Cypher 6* drone with controllers and hard shell case for ease of transporting the full system; and flight and radiation measurement instruction.

Nuclear radiation sensor instrumentation suitable for Drone application is new to the market place. The **DroneRAD system** has a widely diverse application and includes conducting

Gamma and/or Neutron radiation surveys of the ground, buildings, and vehicles, Uranium surveys of landfills and K-40; background radiation surveys for construction and development, and airborne hazards.

The **DroneRAD** system mounted on *FlyCam UAV's Cypher 6* drone provides a versatile, durable, and easy to use system and has an approximate launch time of five minutes with wireless download of data.

### **About US Nuclear Corp.**

US Nuclear Corp is a fully-reporting, publicly traded company on the Over-the-Counter Bulletin Board, traded under the ticker symbol **UCLE**. The Company's operations are principally engaged through its subsidiaries, operating two leading nuclear radiation detection companies, *Overhoff Technology Corp.* and *Optron Scientific Company Inc. dba Technical Associates*. US Nuclear Corp designs, manufactures and markets branded, full line radiation detection and specialized advanced Tritium technology both domestically and internationally for the nuclear energy industry and other nuclear industries such as hospitals and radiopharmacies.

In addition to the cutting edge instruments of the DroneRAD Aerial Radiation Detection system, US Nuclear Corp has developed specific detection instrumentation for emerging technological processes such as Thorium and Molten Salt (MSR) reactor technologies, and real-time continuous water monitoring for nuclear effluent, wastewater, and drinking water. With over three hundred instruments in the US Nuclear Corp catalog and a reputation for meeting customer's needs with custom designed and tailored instruments satisfied customers include United States Government Agencies, the U.S. Military, Homeland Security, National Laboratories, Universities, Hospitals, and nuclear reactor facilities in the United States, China, Canada, South Korea, Argentina, Russia and others.

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