



C-ASTRAL
AEROSPACE

UNMANNED AIRCRAFT SYSTEMS



CBRN SENSOR POD

Chemical, Biological, Radiological and Nuclear Detection Pod



Chemical
detection



Radiological
detection



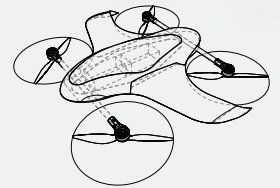
EO/IR/LI
gimbal camera



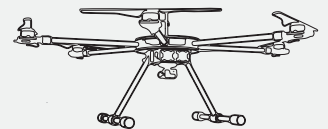
Independent
datalink



Independent
power



- Completely independent from the carrying platform
- Hardware agnostic control and COMM interface
- Integrated power supply for supported devices
- Auto detection of connected devices
- Internal storage for sensor data



Introducing the CBRN Sensor Pod – your versatile solution
for **Chemical, Biological, Radiological, and Nuclear**
detection and analysis.



IN USE WITH FORCES





This advanced sensor pod seamlessly integrates a wide array of devices, including sensors and samplers, while offering a standardized, hardware-agnostic interface for efficient control station management.

Robust Communication: The sensor pod facilitates encrypted communication and control. Sensor readings are sent periodically or on-demand, all in a user-friendly JSON format. Data collected by the sensor pod is transmitted through a digital datalink to the control station, ensuring real-time access to critical information. This efficient data flow supports informed decision-making in high-stakes environments.

Integrated sensors	GNSS receiver / Barometer / IMU Chemical gas detector with 8 sensor heads Radiological sensor with source locator and spectrometer Temperature & humidity sensor
Datalink	Integrated encrypted mesh datalink
GNSS interfaces	1× GNSS antenna connector
Device interfaces	Subminiature connectors Binder series 711 14× different number of pins
Camera	XHD8 EO/IR/LI gimbal
ON/OFF	Via external ON/OFF switch
Power supply	Integrated power supply for external or internal power source External: 25-34 VDC Internal: 5S Li-Po Battery
Operation time	On external power – unlimited On internal power – approx. 50 min
Dimensions	476 × 367 × 310 mm
Mass	Approx. 7,15 kg
Mounting	Standardized mounting points

Modular Design: The sensor pod's modular housing enhances versatility, allowing the datalink module to be directly attached. A 15V power supply and Ethernet connection are standard, but the design allows for alternative datalinks to be implemented effortlessly with interchangeable covers.

Whether you're on the front lines of a CBRN incident or conducting routine surveillance, the CBRN Sensor Pod is engineered for reliability, adaptability, and ease of use. Equip your operation with cutting-edge technology and stay ahead in CBRN detection and response.

