



C100

Multi-Mission Platform

The C100 is a portable, ruggedized sUAS that delivers real-time aerial video to first responders during high-stakes operations—whether locating missing persons, monitoring wildfires, or supporting law enforcement teams. Built for fast deployment and reliability in the field, it features industry-leading payload capacity, low acoustic signature, and reliability in tough weather and complex urban terrain.

C100 is equipped with military-grade payloads, world-leading drivetrain, and Blue-UAS approved avionics to deliver the ultimate long-endurance ISR and delivery platform. Edge computing and a suite of autonomy features ease cognitive burden and provide hands-free functionality.

Mission Capabilities



Situational Awareness

Extend the eyes and ears of incident commanders during large-scale events, standoffs, or HAZMAT incidents.



Visual + Thermal EO/IR

Identify heat signatures or anomalies during SAR, fire scene assessments, or surveillance



Search & Rescue

real-time victim location and identification in daylight, low light, and full darkness



Disaster Response

Rapidly assess flood zones, fire perimeters, or collapsed structures with real-time aerial video



Supply Delivery

Deliver radios, medical kits, water bottles, or custom packages to isolated or hard-to-reach locations



Secure Networking

Extend mesh networks and integrate with TAK for shared situational awareness.

PDW® C100 Multi-Mission Platform



Features

Specifications

Folded / Unfolded	24" x 15" x 8" / 64" x 65" x 11"
Weight	21.4 lbs (9.7 kg)
Max Payload Mass	Up to 10 lbs (4.5kg) with Long Endurance Batteries
Long Endurance Battery	74 minutes with ISR Payload
Range	6.2+ miles (10+ km)
Cruise Speed	Cruise mode: 40.3 mph (64.8 km/h) Base mode: 22.4 mph (36 km/h) Safe mode: 4.9 mph (7.9 km/h)
Max Speed	40 mph (64.8 km/h)
Wind Limits	30 mph sustained, 40 mph gust - ISR configuration 25 mph sustained, 35 mph gust - up to 5lbs gross payload weight 20 mph sustained, 30 mph gust - up to 10lbs gross payload weight
Night Operations	Zero-light emission mode // IR LEDs + Strobe Lights
Acoustic Signature	61dB @ 5m away / non-audible at 600 meters
Radio	Doodle Labs Helix 1625~2500 MHz (M1 - M6)
Autonomy	Frontal Collision Avoidance and GNSS Position Hold
Compute Core	Modal Ai's VOXL 1 Qualcomm 812 + optional Nvidia Xavier NX
Max Operational Altitude	12,000 ft MSL
Operational Temperature	-20°C - 57°C -4°F - 134.6°F
Weatherization	IP54
Supply Chain	NDA A Compliant / Blue UAS