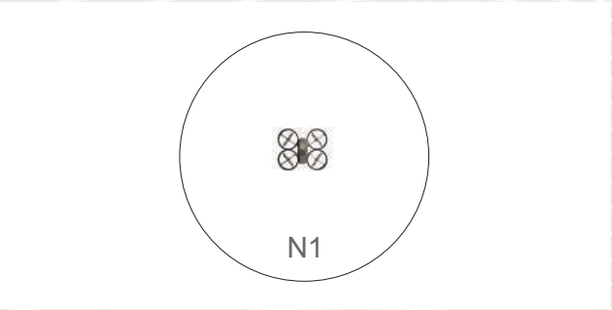
PDW / C100 / Cargo Long Endurance

C100 is a large, ultra-endurance sUAS in PDW's family of small autonomous platforms designed for the modern warfighter.

A man-packable sUAS with industry-leading flight time, the **C100** supports long-range ISR and cargo transport with hot-swappable payloads, open architectures, and hands-free autonomy features. Designed for universal payload integration, **C100** features EO/IR, thermal, custom payloads, munitions release devices, and other purpose-built solutions. Shares common design in electronics and software with PDW's S20 and N1 platforms for advanced operations and multi-sUAS deployments.



PDW / C100 / Cargo Long Endurance

C100 is equipped with a miltary-grade Trillium payload, world-leading drivetrain, and Blue-UAS approved avionics to deliver the ultimate long-endurance organic ISR platform. Edge computing and a suite of autonomy features ease cognitive burden and provide hands-free functionality even in GPS denied environments. Ruggedized IP54 design folds into the warfighter's rucksack with field-replaceable arms and propellors.

Flight Endurance
World-leading flight endurance @ 80+ mins with payload.

Swappable EO/IR Payloads
C100 includes Trillium's military-grade payloads for high-power organic ISR capabilities.

Universal Payload
Up to 30 lbs and integrates with virtual any 3rd party payload with common protocols, mechanics and dev. support.

First Person View
First-person, fixed flight camera to ease operator navigation. (Independent of Payload.)

Low-SWaP
Quickly folds into a small rucksack. From packed to deployed in under 2 minutes.

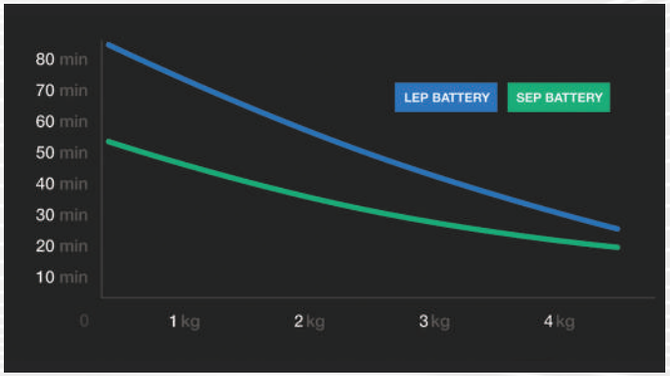
Autonomous Flight
Provides object detection, visual inertial odometry, and vision-based collision prevention. With on-board edge computer, features list is upgradable as developed.

Edge Computing
DIU Blue-UAS approved (ModalAI) flight avionics with Qualcomm Snapdragon 812.

Secure
AES-256 encrypted link for reliable and secure communication.

Open Architecture
For application/payload development, integrating new hardware or modifying the powertrain, C100's modular architecture supports any present/ future technologies and missions.

Feature	Specification
Folded / Unfolded	24" x 15" x 8" / 63" x 65" x 11"
Weight	17 lbs (8 kg)
Payload Capacity	30 lbs (14 kg)
Long Endurance Battery / Short Endurance Battery	80+ Minutes with Payload / 60+ Minutes with Payload
Range / Max Flight Speed	3 Miles / 35 mph (60 km / h)
Supply Chain	NDAA Compliant
Night Operations	Zero Light Emission Mode
Autonomy	Frontal Collison Avoidance & Visual Position Hold
Compute Core	Qualcomm 812, ModalAI VOXL1



Payload Option 1
HD40-LV: EO/IR

720p Global Shutter Visible Camera
Resolution: 1280 x 720
FOV: 54°–4.9° up to 2.5° Digital

LWIR 30 Hz 640 with 24 mm lens
Resolution: 640 x 512
FOV: 18.2° up to 4.6° Digital

Optional 850 nm laser pointer

Payload Option 2:
HD40-XV: EO 30x Zoom

720p Global Shutter Visible Camera
Resolution: 1280 x 720
FOV: 54.3°–1.7° up to 1.0° Digital