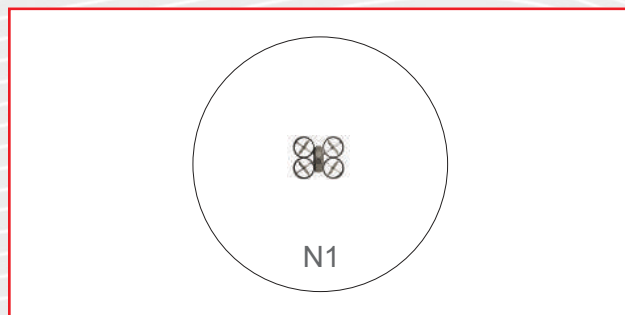# ▲PDW / **N1** / Nano

N1 is a nano-sized breach sUAS in PDW's family of small autonomous platforms designed for the modern warfighter.

A hand-sized sUAS designed to breach and navigate close proximity spaces. N1 supports organic ISR and strike operations with a low latency radio link, breach and munitions integrations, and hands-free autonomy features. Fully functional in zero light, N1 is ideal for deployment in small, restricted indoor spaces such as SUB-T environments, bunkers, tunnels, and warehouses. Shares common design in electronics and software with PDW's C100 and S20 platforms for advanced operations and multi-sUAS deployments.

N1

S20

C100

⬢PDW / **N1** / Nano

N1 uses a compact 10" form factor and Blue-UAS approved avionics package to create industry-leading organic ISR and strike capabilities. Equipped with vision-based flight guidance and functional in zero light, N1 navigates tight, enclosed spaces and even rights itself when flipped on its back. The N1's glass-breaker option will shatter windows to clear rooms and positively identify threats to the operator. N1 is compact, lightweight, extremely durable, and low-cost.

Precision Strike
Organic strike capability using munitions delivery devices.

Breach Capable
Kinetic capability to shatter and breach closed windows.

Zero Light Vision System
Flight guidance & collision avoidance for tactical missions.

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

Flight Endurance
10 mins of flight endurance with payload.

Low Lag
Low latency radio integration for increased responsiveness in close-proximity ISR.

Durable
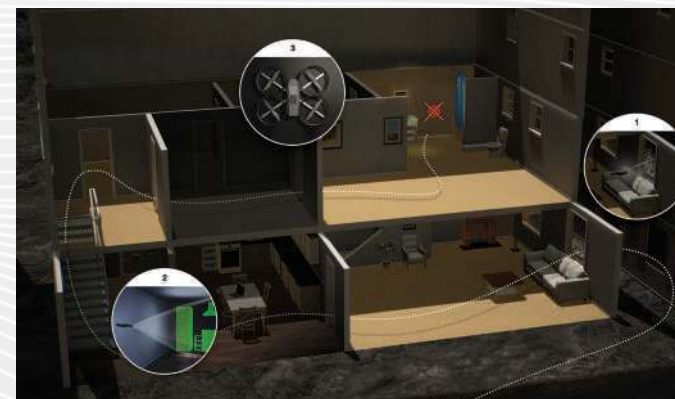3D printable shroud, made for crashing, includes turtle mode.

Edge Computing
ModalAI flight avionics with Qualcomm Snapdragon 812.

Autonomy
Provides object detection and visual inertial odometry. With edge computing resource and PDW's SDK, features list is upgradable as developed.

Feature	Specification
Endurance	10 Minutes
Weight	1 lb (450g)
Range	3 Miles
FPV Camera	HDR Color
Supply Chain	NDAA Compliant
Night Operations	GPS Denied, IR Illuminated Vision Zero Light Emission Mode
Autonomy	Frontal Collison Avoidance Visual Based Position Hold
Max Flight Speed	20 mph (60km / h)
Operational Temperature	-10ºC – 40ºC
Compute Core	Qualcomm 812, ModalAI VOXL1