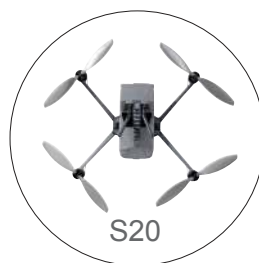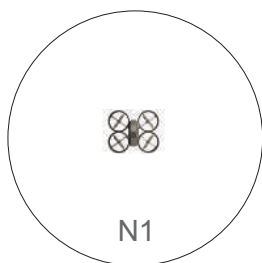# ▲PDW / **N1** / Nano

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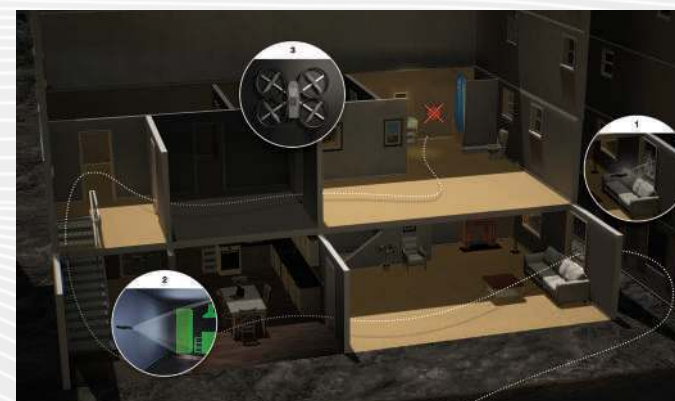3D printable shroud, made for crashing, includes turtle mode.

**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<br>Zero Light Emission Mode |
| Autonomy | Frontal Collison Avoidance<br>Visual Based Position Hold |
| Max Flight Speed | 20 mph (60km / h) |
| Operational Temperature | -10ºC – 40ºC |
| Compute Core | Qualcomm 812, ModalAI VOXL1 |