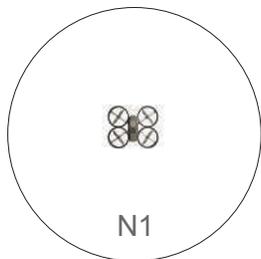


PDW / S20 / Soldier Recon



S20 is a mid-size utility sUAS in PDW's family of small autonomous platforms designed for the modern warfighter.

A small man-packable sUAS designed for maximum utility and versatility. S20 supports organic ISR and strike operations with hot-swappable payloads, open architectures, and hands-free autonomy features. Fully functional in zero light, S20 is a versatile workhorse made to traverse indoor and outdoor environments in any weather scenario. Shares common design in electronics and software with PDW's C100 and N1 platforms for advanced operations and multi-sUAS deployments.



PDW / S20 / Soldier Recon

S20 ships with a high-quality FLIR EO/IR gimbal payload and Blue-UAS approved avionics package. Functional in any environment, including zero light or GPS denied, with vision-based flight guidance. Edge computing and a suite of autonomy features ease cognitive burden and provide hands-free functionality. Ruggedized IP54 design folds into a small wearable pouch with field-replaceable arms and propellers.



Zero-Light Vision Navigation

S20 offers flight guidance & collision avoidance for nighttime, tactical missions in GPS-denied environments.



Flight Endurance

35+ mins of flight time for missions requiring extended range or loitering endurance.



Universal Payload

Picatinny rail supports up to 750g of additional payload.



Open Architecture

For application or payload development, S20's modular architecture supports any present or future technologies and missions.



EO/IR Gimbal Payload

2-axis stabilized gimbal provides seamless high-quality EO/IR video for day or night missions.



Durable

Field replaceable arms, propellers, and antennas designed for variable environments.



Edge Computing

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



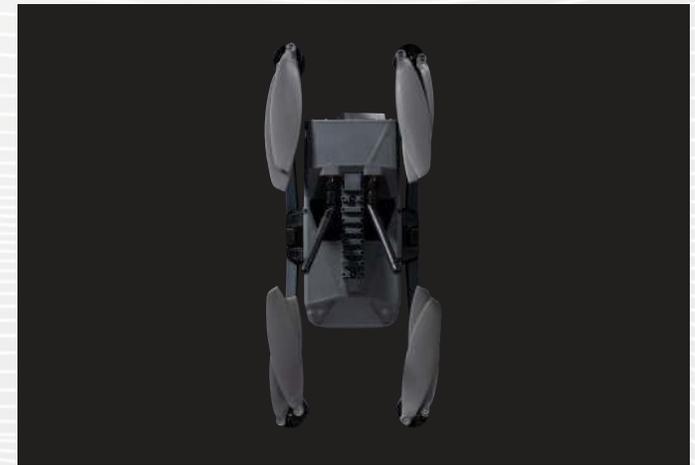
Secure

AES-256 encrypted link for reliable and secure communication.



Autonomy

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



Feature	Specification
Weight	3 lbs (1.3 kg)
Endurance	35 Minutes
Payload Capacity	1.6 lbs (750 g)
Range	3 Miles
Supply Chain	NDAA Compliant
Night Operations	GPS Denied, IR Illuminated Vision, Zero Light Emission Mode
Autonomy	Frontal Collision Avoidance, Visual Based Position Hold
Max Flight Speed	35 mph (60km / h)
Operational Temperature	-10°C – 40°C
Compute Core	Qualcomm 812, ModalAI VOXL1
Stabilized EO/IR Camera	Sony IMX412 60Hz, Resolution: 4056 x 3040, FOV: 80° LWIR 30Hz or 60Hz Boson 320, Resolution: 320 x 256, FOV: 34°

