COMPACT RECONNAISSANCE UAV

AtlasMICRO

POCKETABLE. DUAL PAYLOAD. GNSS-DENIED READY.

A sub-500 g UAV with high-resolution day and thermal cameras, built to launch from the hand and fly in GNSS-denied environments.

A wide-spectrum, jamming-resistant radio, a 3-axis stabilised gimbal, position hold without GNSS, a microwave altimeter, obstacle-avoidance radar and up to 30 minutes of flight with rapid recharge make AtlasMICRO an excellent companion for military and industrial customers.

NEW



VIEW PRODUCT PAGE

473 g	Up to 30 min	9.5 km	54 km/h	15 m/s
Take-off weight	Flight time	Radio range	Max speed	Wind resistance

DUAL PAYLOAD

4K optical and VGA thermal

A 4K day/low-light camera and a 640 × 512 radiometric thermal camera on one 3-axis stabilised gimbal — for reconnaissance, search and rescue and automated inspection.



PORTABILITY

Folds to fit a pocket

Precision-machined folding arms collapse the frame to 111 × 184 mm. Carry it in a MOLLE holster and launch it from the hand or a moving vehicle.



GNSS-DENIED

Flies where GNSS can’t

A downward-facing optical flow camera lets AtlasMICRO fly and hover when satellite navigation is jammed or unavailable, reducing the operator’s workload.



FLIGHT ASSIST

Sensors that do the flying

Wide-band radio, a 54 GHz microwave altimeter, a 76 GHz obstacle-avoidance radar and high-frequency GNSS make AtlasMICRO sophisticated yet easy to fly.



SPECIFICATIONS

TECHNICAL SPECIFICATIONS

Compact reconnaissance UAV · pre-production model



PHYSICAL

Dimensions, folded (w × d × h)	111 × 184 × 84 mm
Dimensions, unfolded (w × d × h)	286 × 245 × 96 mm
Take-off weight	473 g
Enclosure	Impact-resistant PC-ABS
Ingress protection	IP44 (designed as)

OPERATIONAL ENVIRONMENT

Operating temperature	-20 °C to +55 °C
Relative humidity	5–95 %, non-condensing
Rainfall endurance	Light rain, 1.5 mm/h
STANAG-4370 conditions	A1/2/3, B1/2/3, C0

IMAGING PAYLOAD

Metadata	TAK-compliant, TS
Day / low-light camera	4K (3840 × 2160) at 60 fps
Thermal camera	VGA (640 × 512) at 50 fps
Gimbal	3-axis stabilised, hall-effect sensors

MAINBOARD

Embedded flight controller	Atlas FCM
Onboard video transcoding	Yes, hardware accelerated
Onboard object tracking	Optional ML module
Supported codecs	H.264 / H.265
Payload data storage	MicroSDXC (slot 1), up to 2 TB
Telemetry log storage	MicroSDXC (slot 2), up to 2 TB
Secure storage	Yes, AES-256 encryption
Remote wipe	Yes, secure wipe

BATTERY AND POWER

Battery module	Atlas Micro 3S battery pack
Capacity	3000 mAh
Battery management	Yes, smart battery
Charger	USB-C PD 2.0 compatible, 100 W
Charge time	55 min

PROPULSION

Motor configuration	Quad-rotor
Flight time	Up to 30 min (ISA 0, MSL 0 m)
Max speed	15 m/s (54 km/h)
Wind speed resistance	Up to 15 m/s
Max service ceiling (AMSL)	3000 m
Hand / vehicle launch	Yes, up to 20 km/h
Noise (MIL-STD-1474D)	65 dB(A) at 1 m, 53 dB(A) at 10 m

ONBOARD SENSORS

GNSS	u-blox 10 (GPS + GLONASS + Galileo)
Obstacle avoidance	Front-facing 76 GHz radar
No-GNSS positioning	Daytime optical flow sensor, >60 lux
Altitude radar	Bottom 54 GHz microwave altimeter
Barometer	High-precision, self-calibrating
Onboard sensors	Compass, gyro, IMU, temperature

COMMUNICATIONS

Primary radio	Atlas ATR-200, up to 1 W per chain
Encryption	WPA3-SAE with AES-256
Protocol	CCMP-256
Mesh repeater (AtlasMESH)	Yes, with remote key wipe
Standard (civilian) frequency	2.4 – 2.4835 GHz
Full extended frequency	2.2 – 2.7 GHz
Frequency hopping	Yes
Onboard antenna	Dual antennas, 3 dBi
Radio range	Up to 9.5 km
Certification	MIC, FCC, IEEE C95.1-2345 compliant

ACCESSORIES

Additional charger	Atlas USB-C PD 2.0 100 W charger
Travel case	Compact hard case
Carry holster	MOLLE/PALS compatible holster
Propeller kit	Atlas Micro blades

See AtlasMICRO fly

Book a live demonstration or talk to our team about pricing and availability.

ATLASUAS.COM/ATLAS/CONTACT