

TRACE**PROFESSIONAL-GRADE NANO UAV**

Trace provides field operators with a trusted and affordable American-made nano UAV. Trace delivers exceptional sensor capabilities and unmatched stealth and flight endurance. This pocket sized drone meets the complex demands of aerial surveillance, overwatch and data dissemination.

**CAPABLE**

Stabilized 48MP EO & 320P IR
35 minute flight time
2.5 km LOS / 900m NLOS range

SAFE

<150 g / 5.3 oz AUW

INDOOR/OUTDOOR

360° obstacle avoidance
GPS denied visual position
control with scene illumination
Withstands 25 knot winds

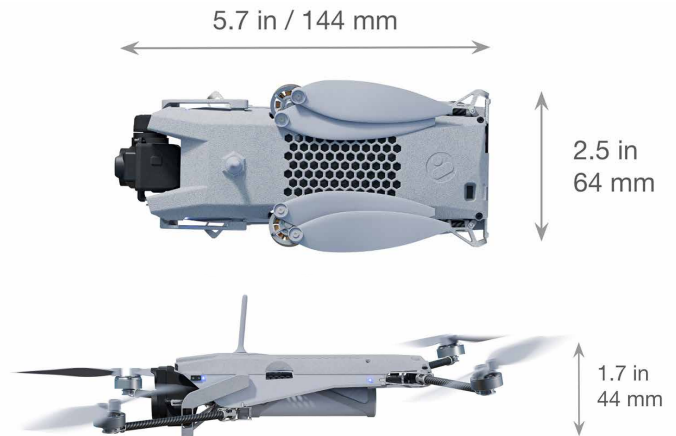
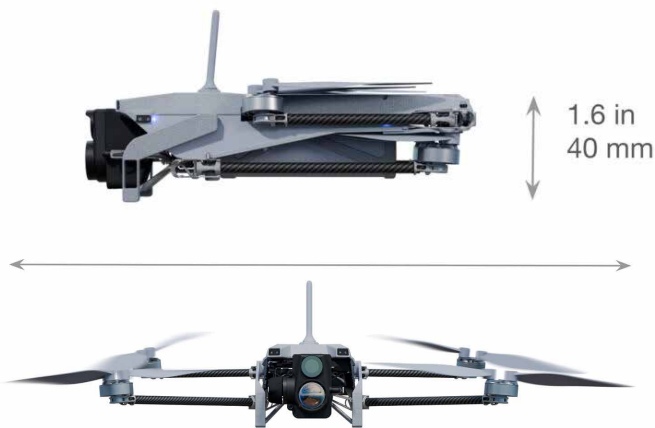
COVERT

Unseen & inaudible at 30 ft
Remote ID optional

TRUSTED & SECURE

AES-256 encryption
Made in the USA
NDAA compliant





■ Specification

AIRCRAFT

Flight time	30 minutes
Indoor/outdoor operation	Obstacle avoidance, visual position control, and scene illumination for robust indoor and GPS denied operation
Airframe mass	153g takeoff weight
Flight speed	52 kph / 32 mph top speed
Stealth	<37 dBA at 25 meter range
Visibility	Not visible at 30ft against terrain
Operational wind range	Up to 25 kts wind
Operational temperature range	-20° – 45° C
Ingress protection	IP-53
Autonomous missions	Multi-constellation GPS
Launch	Hand or flat ground Perch and stare capable

CONTROL & COMMS

LOS range	2 km
NLOS range	500 m (30dBi attenuation)
Frequencies available	2.36 GHz Mil and 2.4 GHz ISM radio frequency alternatives
Channels	Automatic channel hopping ensures robust link
Connection standards	MAVLink and RAS-A Compliant
GCS Software Compatibility	QGC, ATAK, WML, amd RAC2 compatible
Controller Compatibility	Compatible with Vantage Vision 2, Kutta KTAC, S20 TE, & Tomahawk Mimic or Grip GCS

SECURITY

Origin	Designed, sourced, and built in USA
Encryption	AES-256 on all communications and data storage
Security compliance	DoD "Blue" pending & NDAA compliant
Data transmission	No remote data transmission

PORTABILITY

Launch time	Deployable in 30 sec
Compact stowage	Folding arms for stowage
Durability in Field Case	IP67 waterproof field case w/90 kg crush and 1m drop robustness
Weight	<1000 g & 1000 cm ³ w/ field case, 2 batteries, & Vision2 GCS
Transport Case	Watertight, dustproof, dent-proof

GIMBAL & CAMERA

Gimbal	2-axis stabilized EO/IR gimbal
Gimbal pitch control	User controllable -90° to +70°
Sensors	EO + thermal, thermal upgradeable to the 640 x 480
EO Camera	48 MP
EO Optics	f/1.8 lens with auto focus
Optical and digital zoom	25x digital zoom (67° – 2.7° HFOV)
Still images	8000 x 6000 px stills
Sensors	320x240 IR uncooled VOx sensor 24° or 57° HFOV options
Video recording format	1080 or 4K MPEG-4