

TRACE

MILITARY-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 takes on the challenges of larger drones with lower detectability, risk, and packed weight.



CAPABLE

48 MP EO & 320 or 640 LWIR
Up to 36 minute flight time
7 km LOS / 500m NLOS range

SAFE

215 g AUW

INDOOR/OUTDOOR

Withstands 25 kt winds
Indoor collision prevention
Propeller guards available
GPS denied visual position control
with scene illumination

COVERT

Unseen & inaudible at 30 ft
Remote ID optional

TRUSTED & SECURE

AES-256 encryption
Made in the USA
Blue UAS Cleared/ NDAA compliant

TRACE

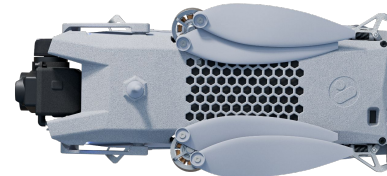
SPECIFICATIONS



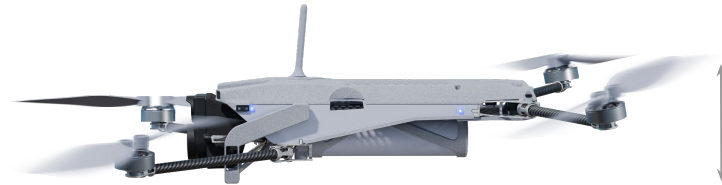
12.1 in / 307 mm



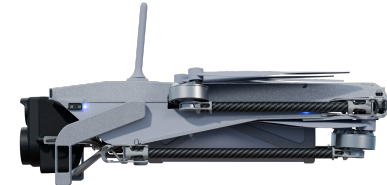
5.7 in / 144 mm



2.5 in
64 mm



1.7 in
44 mm



1.6 in
40 mm

+ AIRCRAFT

- Up to 36 minutes flight time
- Indoor collision prevention, visual position control, and scene illumination for robust GPS denied operation
- 215 g AUW
- 52 kph / 32 mph top speed
- <34 dBA at 30 m / 98 ft range
- Not visible at 9 m / 30 ft against terrain
- Operational in 25 kt sustained and 45 kt gusts
- -20° to 45° C operation range
- 4000 m MSL service ceiling
- IP53 ingress protection
- Multi-constellation GPS for autonomous missions
- Hand or ground launch
- Perch and stare capable
- GPS denied flight up to 50 m
- Autonomous position hold, waypoint missions, RTH/RTP, go to location, orbit, subject tracking, precision landing

+ GIMBAL & CAMERA

- 2-axis stabilized EO/IR gimbal with secondary digital stabilization
- Controllable pitch -90° to +70°
- 48 MP EO camera
- f/1.8 lens
- 25× digital zoom (67° - 2.7° HFOV)
- 1080p or 4K MPEG-4 video recording format
- 8000x6000 px still images
- 320x240 or 640 x 480 uncooled VOx LWIR sensor
- 48 MP EO + Spotlight payload option

+ PORTABILITY

- Deployable in 90 sec
- 670 g & 1320 cc in a hard-shell Field Case with two batteries and spare props
- IP68 hard-shell Transport Case for full system with Vision2 GCS

+ CONTROL & COMMS

- Up to 7 km max LOS range
- 500 m NLOS range (30 dB attenuation)
- 2.4, 2.3 - 2.4, and 1.6 - 2.5 GHz frequency options
- 1 W power, automatic channel hopping, and dynamic modulation and power
- MAVLink and RAS-A compliant
- QGC, ATAK, WMI, MS CAPE, DroneSense, and RAC2 compatible
- Compatible with Vantage Vision2, Kutta KTAC & S20 TE

+ SECURITY

- Blue UAS cleared
- NDAA compliant
- Designed, sourced, and built in the USA
- AES-256 communication encryption
- No remote data connect

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CONFIGURATIONS



Bundles

Name	Radio	Gimbal	GPS Denied Alt	Controller	Battery	Packaging
Trace UAS Public Safety	2.4 GHz	Wisp 320 LWIR	30 m	Vision2	2x Smart Batteries	IP68 field and transport cases
Trace UAS Public Safety Pro	2.3 - 2.4 GHz	Wisp 640 LWIR	30 m	Vision2	2x Smart Batteries	IP68 field and transport cases
Trace UAS ISR	Hexaband	Wisp 320 LWIR	30 m	Vision2	2x Smart Batteries	IP68 field and transport cases
Trace UAS ISR Pro	Hexaband	Wisp 640 LWIR	50 m	Vision2	2x Smart Batteries	IP68 field and transport cases
Trace UAS Inspection	2.4 GHz	Wisp Spotlight w/LED illum	30 m	Vision2	2x Smart Batteries	IP68 field and transport cases

Field Swappable Gimbal Options

Name	EO	LWIR	Illumination	Stabilization
Wisp	48MP, f/1.8, 67° FOV	320x240, 24° FOV, 65 mK NETD	none	2-axis + EIS
Wisp Wide IR ¹	48MP, f/1.8, 67° FOV	320x240, 57° FOV, 65 mK NETD	none	2-axis + EIS
Wisp Advanced	48MP, f/1.8, 67° FOV	640x480, 50° FOV, 40 mK NETD	none	2-axis + EIS
Wisp EO	48MP, f/1.8, 67° FOV	none	LED	2-axis + EIS

¹ Available upon request in custom bundle



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OPTIONS



Radio Options

Name	Description	Range ²
2.4 GHz	1 W power, AES-256 encryption, automatic channel hopping	3 km
2.3 - 2.4 GHz	1 W power, AES-256 encryption, automatic channel hopping	5 km
Hexaband	1625 - 1725, 1780 - 1850, 2020 - 2110, 2200 - 2300, 2300 - 2390, 2400 - 2500 MHz frequency options, 1 W, AES-256, auto channel hopping	7 km

²Control ranges are based on line of sight, 400 ft altitude, and uncongested RF environments

Battery

Name	Cell	Flight Time	Charging
Smart Battery	2-cell 18650, 7.4V	36 minutes ³	2 hours with 60 W USB-C charger

³Flight times are measured at hover in still air.