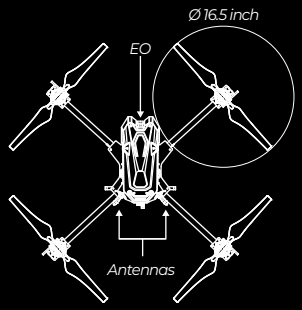
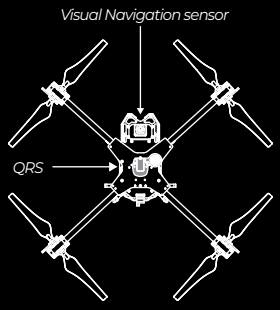
HARDWARE LOCATION

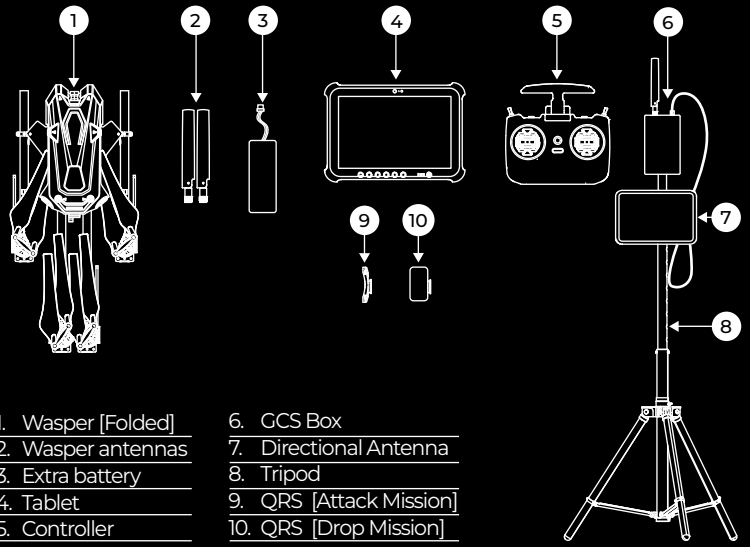


[TOP VIEW]



[BOTTOM VIEW]

TACTICAL PACKAGE



1. Wasper [Folded]
2. Wasper antennas
3. Extra battery
4. Tablet
5. Controller
6. GCS Box
7. Directional Antenna
8. Tripod
9. QRS [Attack Mission]
10. QRS [Drop Mission]

ORBOTIX INDUSTRIES

WASPER-1

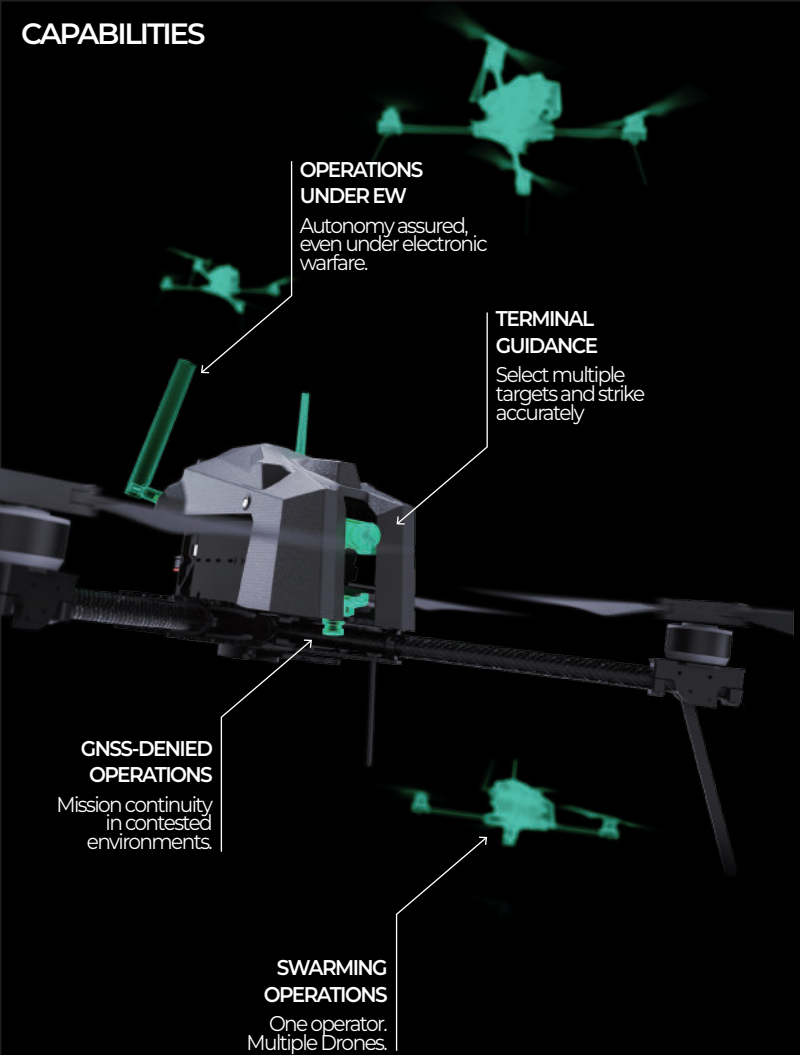
WASPER-1

Tactical unmanned aerial system designed for autonomous operations and resilience in contested and denied environments of the modern battle space.

ATA SYSTEM

Employs convolutional neural networks for target recognition and lets a single operator manage multiple drones and engage several targets simultaneously.

CAPABILITIES



GENERAL OVERVIEW

WIDTH	
Folded	242mm
Unfolded	545mm
LENGTH	
Folded	518mm
Unfolded	572mm
HEIGHT	
Folded	161mm
Unfolded	262mm
DIAGONAL	668mm

MTOW	4.5kg
MODE	Kamikaze or Payload Drop
PAYLOAD	~1.7kg
INTERFACE	2x PWMM TTL LEVELS or UART

PERFORMANCE

ENDURANCE	
With 1.7kg payload	30min
With out payload	37min
Max speed	72km/h
Cruise speed	45km/h
Battery	10 Ah 6S Li-ion Battery Replaceable
ENVIRONMENT	
Temperature	(approx.) -15~+50°C
Wind	30km/h / gusts of 40 km/h
Precipitation	Moderate rain
DATA LINK	
Type	Multi-band Frequency Hopping 1.6 - 2.5 GHz
Radio range	~15km
Features	AES128/256 Encryption, Mesh capable

LAUNCH TIME	<2min
STREAM	Real time Video / Telemetry Stream on GCS
MODES	One-Way Attack (OWA) / Air-Delivered Munition (ADM)

AI

Terminal Guidance
Autonomous guidance and precision-engagement following target designation.

GNSS Denied Navigation
Visual-inertial odometry (VIO) & Vision-based navigation.