eBee X

Lightweight mapping drone for large coverage and sharp data

NDAA-compliant drone for professional mapping operations and advanced missions, such as flying safely over people.

REMOTE (ID) APPROVED BY THE FAA ✓
C2 CERTIFIED ✓
OOP APPROVED ✓
BVLOS APPROVED ✓
BVLOS & OOP SIMPLIFIED ✓

Easy to transport
3.6 lbs / 1.6 kg
Max. takeoff weight

Fly longer
90 min
Flight time*

Map more
1,235 ac / 500 ha
Max. coverage**

Absolute accuracy down to
0.6 in / 1.5 cm
GSD

RTK / PPK	Flight management software	Certified operator online training
Backpack	Endurance extension***	Endurance batteries
Smart battery charger	USB ground modem	Spare propellers and pitot kit

Included with your eBee drone

*Up to 90 minutes flight time with endurance battery and S.O.D.A. camera. ** Coverage with endurance battery and S.O.D.A. 3D camera. ***Subject to export regulations
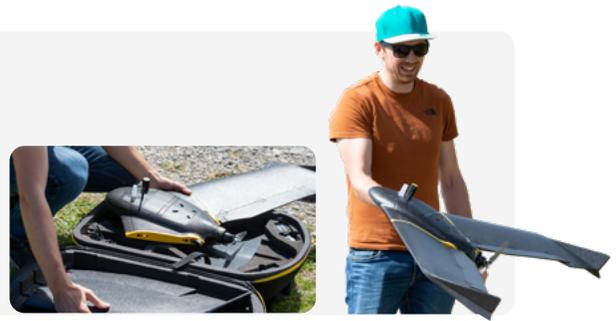
From images to insights

The eBee X allows you to get precise photogrammetric outputs, empowering informed decision-making in surveying, urban mapping, agriculture, construction, public safety, mining, utilities and environmental monitoring.

ORTHOMOSAIC — .tiff .png
3D MESH — .kml .shp
POINT CLOUD — .obj
DSM/DTM — .las .laz
MULTISPECTRAL — .ply
THERMAL — .ascii .dxf

Modular, portable and easy-to-use

The eBee X's modular and compact design enables easy replacements and convenient field repairs, meaning less downtime for your operations.

Streamline your operations with eMotion flight planning software

eMotion combines beginner-friendly and advanced features to handle any job.

- 3D flight planning
- Preset or custom mission blocks
- Automated flight and landing
- Offline mission planning
- Multi-drone capable
- Geo-awareness and safety features

Designed for durability

The Curv® polypropylene thermoplastic composite protects the components of the drone, ensuring its durability even after repeated belly landings.

3D, RGB, thermal and multispectral cameras

eBee X is compatible with a wide range of interchangeable cameras that capture reliable aerial imagery to suit every mapping job.

S.O.D.A. 3D
Oblique RGB for 3D mapping.

Duet T
Thermal and RGB dual camera.

Duet M
Multispectral and RGB dual camera.

Aeria X
24 MP RGB APS-C for precision mapping.

S.O.D.A.
Compact 20 MP RGB camera.

Corridor
Portrait-oriented RGB for linear mapping.

Drone specifications

Wingspan	45.7 in / 116 cm
Material	Expanded Polypropylene (EPP)
Underbody skin	Curv® Polypropylene thermoplastic composite
Max. take-off weight	3.5 lbs / 1.6 kg
Backpack dimension	75x50x29 cm / 30x20x11 in
Motor	Low-noise, brushless, electric
Detachable wing	Yes
Radio link range	1.9 mi (up to 5 mi) 3 km nominal (up to 8 km)
Frequency	2.400 - 2.4835 GHz
Data storage	SD card

Flight performance

Cruise speed	11-30 m/s or 25-68 mph (40-110 km/h)
Max. wind resistance	Up to 12.8 m/s or 28.6 mph (46 km/h)
Landing type	Automatic linear landing (16.4 ft / 5 m accuracy in 35º angle cone)
Service temperature*	5º to 104ºF (-15º to 40ºC)
Humidity	Light rain resistance
Ground avoidance	Yes - LiDAR (range 394 ft / 120 m)
Ground resolution	Down to 0.6 in / 1.5 cm
Max. flight time	90 minutes
Coverage at 400 ft / 120 m	543 ac to 1,235 ac / 2,2 km² to 5 km² / 220 ha to 500 ha
Linear coverage	Up to 17.2 mi / 27.7 km out and back

*Working above 95 ºF / 35ºC requires protecting the drone from the sun while on the ground.