

FoxyWalk

The easy-to-use pedestrian RTK MobileMapping system

FoxyWalk is a pedestrian solution for professional photogrammetry data acquisition. FoxyWalk includes a high resolution camera set-up on a perfectly stabilized gimbal securing precision for all angles of the camera while capturing pictures. With centimetric accuracy positioning using DroneBox RTK, FoxyWalk ultimately delivers perfectly georeferenced 3D cloud data ready for any processing software such as Autocad or others.



Pedestrian photogrammetry

- Less than 6kg fully loaded
- Dismountable
- Less than 5 minutes setting up

RTK Georeferencing

- RTK/PPK modes with DroneBox RTK
- 3D centimeter accuracy for each point of the data cloud

FoxyWalk

Powered by DroneBox RTK

DroneBox incorporates the navigation function with GNSS and inertial sensors, the communication modules hosting the powerful firmware for all critical functions such as sensors and communication management, as well as.

DroneBox is the "plug & play" precision navigation and measurement device usable across the Heliceo product range. Moving a single DroneBox around allows to optimize the investment performing data acquisition with multiple vehicles and sensors.

FoxyWalk is equipped with DroneBox RTK for centimeter GNSS positioning allowing direct georeferencing without need for ground control points (GCP).



Features	DroneBox RTK
Hardware	
o Material	Composite
o Dimensions	130 x 170 x 270 (mm)
o Weight	0,667 Kg
o Temperature range	-10 °C to +60°C
Navigation	
o Satellites	Dual band L1/L2 GPS/Glonass
o RTK	Yes
o PPK	Yes
o Precision	0,03 m X-Y; 0,05 m Z
o IMU	MEMS 3D Attitude 1 °
Firmware	
o Flight management	Autopiloting, navigation, flight plan change, ...
o Communication management	Positions, photos, time, inertial data and others.
o Data logging	On-board autopilot, Telemetry, GNSS, ...



Features

Key features

- Effortless photogrammetric data acquisition
- High density accurate 3D points cloud data
- Easy-to-carry pole mounted survey system
- Centimeter RTK accuracy with DroneBox RTK

Operation

Type	Mounted pole - 2.0m ; 4.0m ; 6.0m and 8.0m
Portable	Yes
Setting up and start	Less than 5 minutes
Endurance	Up to 5 hours
Acquisition speed	500m/ hour
Temperature range	-10 °C to +45°C

Hardware & Communication

Material	Composite and aluminium structure
Dimensions	336 x 172 x 326 (mm)
Weight c/w standard camera	3.0 kg
Batteries	Lithium - 1 x 2,2Ah
Radios	
o Telemetry	433 - 868 - 933 MHz and others (please ask)
o Vidéo monitoring	Wifi
Mission modes	Manual

Data collection & Software

Payloads	Sony Alpha 6000 24 Mpxl and others (please ask)
Sampling Distance	Down to 1 cm (0.4 in) / pixel
Software	
o Mission Planning	HASK - Planner
o Data collection	HASK - VideoWalker
o GNSS Processing	HASK - GeoProcessor
o Image processing (option)	Pix4DMapper Pro and most photogrammetric software
Output data	Image files, log data Densified cloud 3D data (LAS, LAZ, PLY, XYZ) 3D textured mesh (FBX, OBJ, DXF, PLY, 3D PDF) Orthophotos (GEOTIFF), Digital Terrain Model Digital Surface Model (XYZ, LAS, LAZ) Vector lines (SHP, PDF, DXF)