

# HOVERMAP-HF1

## Description

SLAM-based mapper



## General features

Weight	1.8kg
Input voltage	12 – 50V, powered from a battery or auxiliary power input
Quick release mount	Supported

## Mapping Specifications

Slam mapping	Simultaneous Localization and Mapping (SLAM) based LiDAR mapping +/- 0.03% drift
Range	0.40 m to 100 m
Accuracy	+/- 30mm
Mapping accuracy	+/- 20 mm in general environments +/- 15 mm in typical underground and indoor environments +/- 5 mm for close range scanning
Angular field of view	360° x 360°
Data acquisition speed	Single Return Mode: up to 300,000 points/sec Dual Return Mode: up to 600,000 points/sec

# Mapping Specifications

Maximum data capture traveling speed	Flight: 5 m/s above ground, 2 m/s underground or confined spaces
Start / stop scanning while walking or hovering	Supported
Outputs	Full resolution point cloud, decimated point cloud, trajectory file
Point cloud file format	.las, .laz, .ply, .dxf
Point cloud attributes	Intensity, range, time, return number (strongest & last) and ring number
Processing parameters	Pre-set profiles with 20+ adjustable parameters
USB3	High-speed data offload
Storage	480 Gigabytes – approximately 12 hours of sensor data
Operating temperature	0°C to 50°C