Hovermap VF1 Specification

Sensors	
Lidar	Velodyne VLP-16 Lite - 100 metre range - 16 Channel - Dual return - 300,000 point per second Rotating to give 360° x 360° field of view
GPS	External GPS data recorded when available e.g. from DJI drone
Mapping	
SLAM	Simultaneous Localisation and Mapping (SLAM) based LiDAR mapping
LiDAR Data Format	Post processing data output in .laz and .ply point cloud formats
Autonomy Functions	
Collision Avoidance	Omni-directional collision avoidance using LiDAR data Adjustable minimum distance collision avoidance threshold
GPS-Denied Flight	GPS-denied position hold and velocity control

Aircraft Integration	
Mapping only	Any VTOL drone that can lift the payload
Autonomy Functions	Compatible with DJI A3 autopilot
User Interface	
Software	Pre-flight configuration Flight plan progress Obstacle situational awareness
Telemetry	
	WiFi and DJI Lightbridge
Data Management	
USB3	High Speed data offload
Storage	480 Gigabytes – approximately 12 hours of sensor data
Power	
	Auxiliary power input (12V – 54V) Max 90W
Physical	
Size	215 x 155 x 200mm (L x W x H)
Weight	1.8kg
Mounting	Quick-release mounting plate provided