


HOVERMAP ST AND ST-X













HARDWARE FEATURES AND DATA CAPTURE


HOVERMAP HARDWARE FEATURES		MAPPING	PLUS	AUTONOMY
	Versatile Hardware Scan locations without GPS by walking, driving or flying with the same hardware.	✓	✓	✓
	No GPS Required Map any environment quickly and safely with Hovermap's SLAM localization.	✓	✓	✓
	IP65 Rating IP65 rated unit is protected against dust and low-pressure jets of water from all directions, making it ideal for use in harsh environments.	✓	✓	✓
	Obstacle Proximity Map* Use the proximity map to avoid obstacles and navigate the drone safely from a distance.		✓	✓
	Accessory Port An accessory port and mount points expand Hovermap ST's capability with accessories such as a long-range radio.	✓	✓	✓
	Drone Mountable* Attach the Hovermap payload to a compatible drone to use it as an all-in-one 3D mapping device.	✓	✓	✓
	Smart Battery Return-to-Home Maximize flight time and return the drone to base safely using Hovermap's battery monitoring and shortest route home features.		✓	✓
	Magnetic Interference Tolerance Maintain flight stability in areas of magnetic interference.		✓	✓
	Barometric pressure Fly safely in tight spaces where air pressure fluctuates using the Hovermap SLAM altitude control feature.		✓	✓
HOVERMAP DATA CAPTURE		MAPPING	PLUS	AUTONOMY
	GPS Denied Flight* Allows drones to fly autonomously in GPS-denied environments, enabling a host of new applications such as flying and mapping in underground mines, inside warehouses or inspecting underneath bridges.		✓	✓
	Omnidirectional Collision Avoidance Create a virtual safety shield around the drone and avoid the smallest of obstacles.		✓	✓
	Real-Time Point Cloud Streaming View the 3D point cloud of your mapped environment in real time.	✓	✓	✓
	Smart Waypoints Let the drone self-navigate to pre-set waypoints and monitor its progress via a live-streamed 3D map.			✓
	Beyond Line-Of Sight Flight (BLOS) Capture complex assets with a BVLOS Hovermap flight in GPS-denied environments.			✓
	Guided Exploration and Intelligent Path Planning Hovermap's autonomous path planning algorithms guide the drone through its flight mission.			✓
	Tap-To-Fly Operation Fly an entire mission, from take-off to landing, with Hovermap's easy to use interface.			✓
	Communication Loss Return-To-Home Minimize the risk from communications loss between the drone and Hovermap.			✓
	Live Stream Onboard Drone Camera* View a live stream of the mission with an integrated drone camera and Emesent software.			✓
	Operate Beyond Communication Range Hovermap finds a safe route to a waypoint (continue beyond Wifi and radio communication ranges) before returning to home.			✓
	Extend your connectivity range up to 20 times* Long range radio enables users to live stream Hovermap point cloud data and control Hovermap from up to 20 times further.	✓	✓	✓
	Observer Mode* View the mission and point cloud in real-time from a second Android device.	✓	✓	✓

 *Requires additional hardware to enable features

AURA

INTEGRATED PROCESSING AND VISUALIZATION SOFTWARE INCLUDED WITH ALL SUBSCRIPTIONS

AURA LITE		MAPPING	PLUS	AUTONOMY
	A single streamlined application workflow Process and visualize your data in one intuitive platform.	✓	✓	✓
	Multi-frame rendering Proprietary visualization algorithms enable seamless manipulation of large point clouds. Visualize your point cloud in the highest detail, providing deeper insights.	✓	✓	✓
	Reliable high-quality processing Processing powered by the worlds leading SLAM algorithm, converting your data into highly, accurate point clouds.	✓	✓	✓
	Export to a range of formats output in.LAZ, LAS, PLY & E57 Output the processed point cloud data to LAZ, LAS, PLY and E57 into your required file type.	✓	✓	✓
	Clean Point Cloud Cleaning Tools Clean your point cloud at the touch of a button with SOR (Statistical Outlier Removal) and DBD (Decimate by Distance) filters.	✓	✓	✓
	GPS Auto-Geolocation Automatically align scans automatically to GPS coordinates when Hovermap is mounted to a compatible drone.	✓	✓	✓
	3D Tools for Improved Analysis A range of 3D tools allows you to easily manipulate point clouds, reducing the risk or error and improving analysis.	✓	✓	✓
AURA SOFTWARE		MAPPING	PLUS	AUTONOMY
	Batch Processing Save time by queuing multiple jobs to process automatically in the background.	✓	✓	✓
	Automated Ground Control Point (GCPs)* Automated georeferencing and survey grade accuracy enhancement.	✓	✓	✓
	Colorization* Enhance visualization and analysis by adding true colour to Hovermap point clouds.	✓	✓	✓
	Point Cloud Merging Combine multiple point clouds to produce a single seamless scan.	✓	✓	✓
	Personalised Processing Profiles Create customized profiles or reuse existing profiles to process scans with minimal configuration.	✓	✓	✓

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