emesent

COMPARING HOVERMAP APP AND EMESENT COMMANDER

DOCUMENT NUMBER: INSTR-025
REVISION NUMBER: 1.0
RELEASE DATE: 31 OCT 2023

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Using this manual

Hovermap is a powerful system that can be used as a Lidar mapping payload but also as an advanced autopilot for drones. It is therefore recommended to read the user manual thoroughly to make use of all its capabilities in a safe and productive way.

Disclaimer and safety guidelines

This product is not a toy and must not be used by any person under the age of 18. It must be operated with caution, common sense, and in accordance with the instructions in the user manual. Failure to operate it in a safe and responsible manner could result in product loss or injury.

By using this product, you hereby agree that you are solely responsible for your own conduct while using it, and for any consequences thereof. You also agree to use this product only for purposes that are in accordance with all applicable laws, rules and regulations.

The use of Remotely Piloted Aircraft Systems (RPAS) may result in serious injury, death, or property damage if operated without proper training and due care. Before using an RPAS, you must ensure that you are suitably qualified, have received all necessary training, and read all relevant instructions, including the user manual. When using an RPAS, you must adopt safe practices and procedures at all times.

Warning

Always be aware of moving objects that may cause serious injury, such as spinning propellers or other components. *Never* approach a drone while the propellers are spinning or attempt to catch an airborne drone.

This document highlights the key differences between the Hovermap App and the new Emesent Commander App, which features an enhanced user experience, streamlined workflows, and provides a more intuitive and efficient user interface.

Hovermap App Settings

The Hovermap App settings are now embedded in the mission workflow of Commander and can be accessed in **Mission Settings**. Autonomous mode (AL2) mode happens when waypoints are added via the Task Manager.

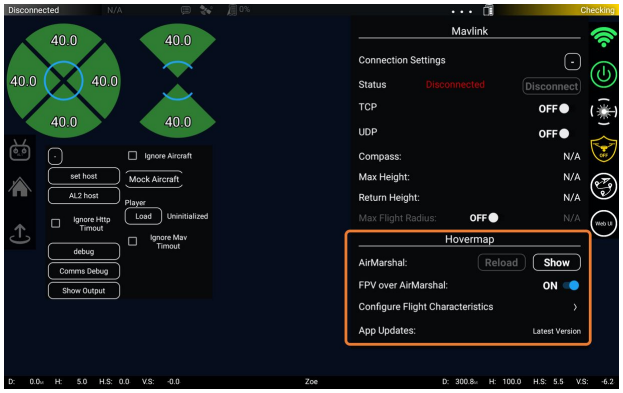
Hovermap App	Commander
	

Figure 1 **Hovermap App settings**

Shield (Formerly VESH)

Hovermap's collision avoidance system is now called **Shield**. Click the **Shield Settings** button on the Emesent Commander toolbar to configure Shield limits and toggle Shield on and off.

Hovermap App	Commander

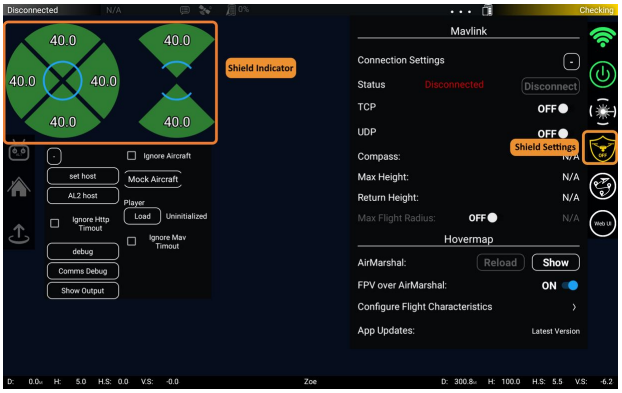
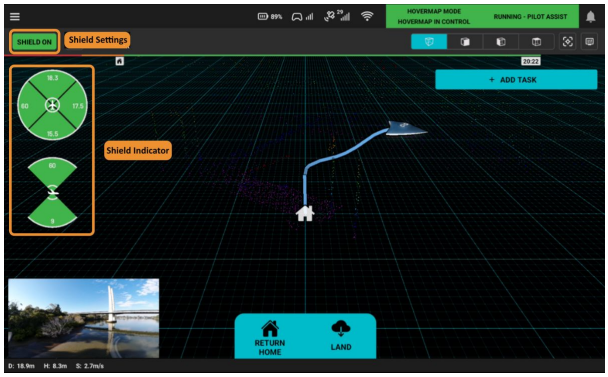
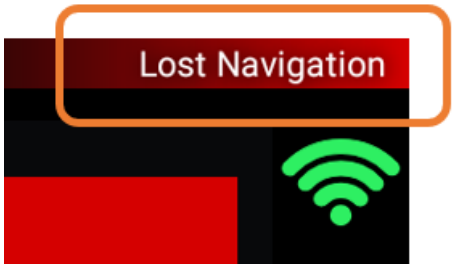
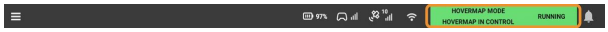

	

Figure 2 Old UI: Hovermap App - Shield Settings	**Figure 3 New UI: Emesent Commander - Shield Settings**

System Indicators

The new firmware now automatically uses SLAM as a primary navigation mode and reverts to GPS as a backup mode, so manual navigation settings have been removed. When primary navigation is lost the system status will change from Running to Running Degraded and change from green to orange. Battery, GPS, robot, and Wi-Fi information is available by tapping the appropriate icons.

The new Status Bar now shows both Hovermap Mode (RC mode) and Mission Mode information.

Hovermap App	Commander
 **Figure 4 Old UI: Hovermap App - System Indicators**  **Figure 5 Old UI: Hovermap App - Status Bar**	 **Figure 6 New UI: Emesent Commander - System Indicators**  **Figure 7 New UI: Emesent Commander - Status Bar**

Settings Menu

Settings have been simplified and can be accessed by tapping the Hamburger button on the top left of the screen.

Hovermap App	Commander

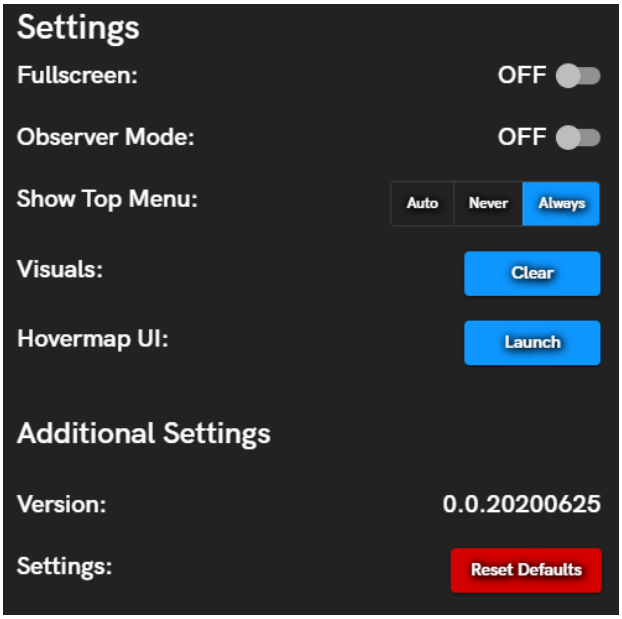
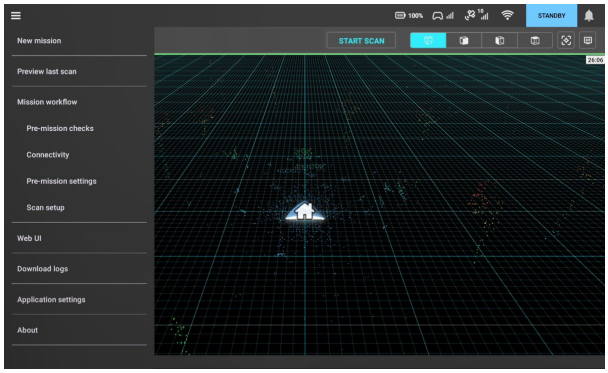

	

Figure 8 Old UI: Hovermap App - Settings Menu	**Figure 9 New UI: Emesent Commander - Settings Menu**

Task Manager

The **Waypoint Manager** in Hovermap App is replaced with the **Task Manager**. Tapping the **Add Task** button in Emesent Commander displays the Task Manager where you can add or edit waypoints to create a mission.

Hovermap App	Commander

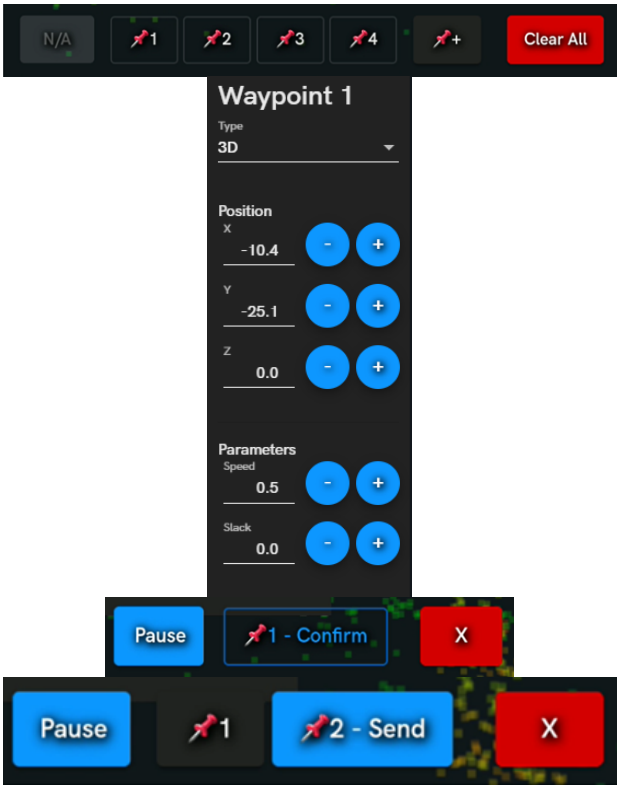
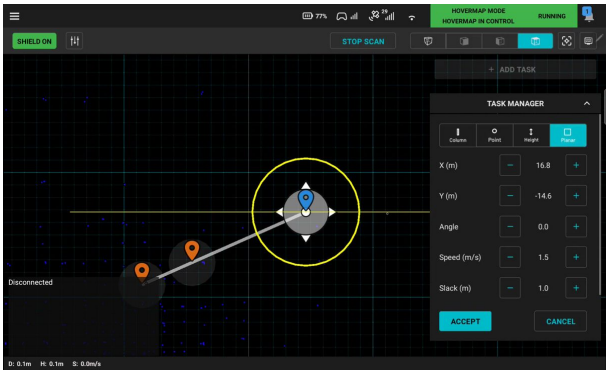

	

Figure 10 Old UI: Hovermap App - Waypoint Manager	**Figure 11 New UI: Emesent Commander - Task Manager**

Mission Action Buttons

The Mission Action buttons are more accessible and include text to describe the action.

Hovermap App	Commander

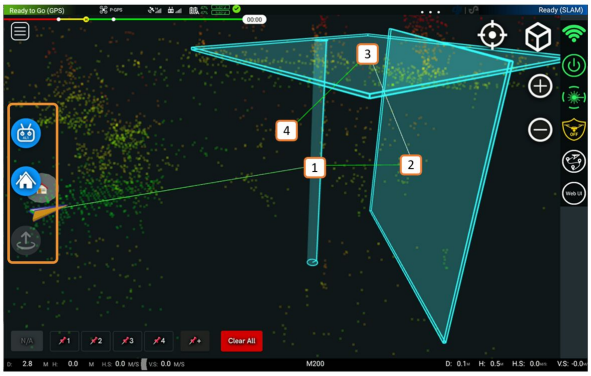
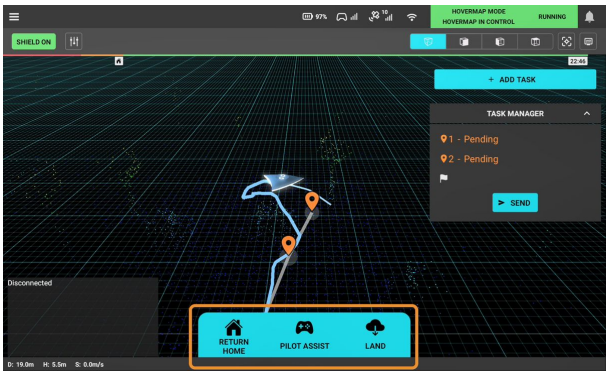
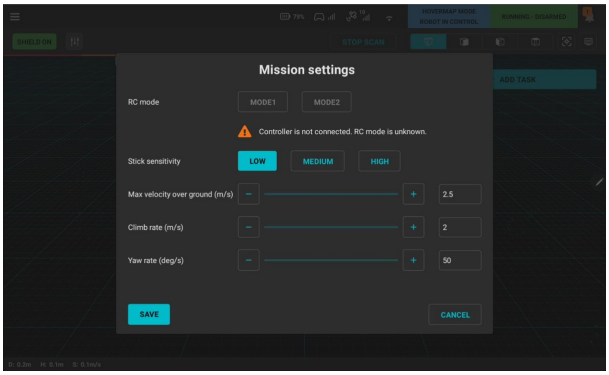

	

Figure 12 Old UI: Hovermap App - Mission Action Buttons	**Figure 13 New UI: Emesent Commander - Mission Action Buttons**

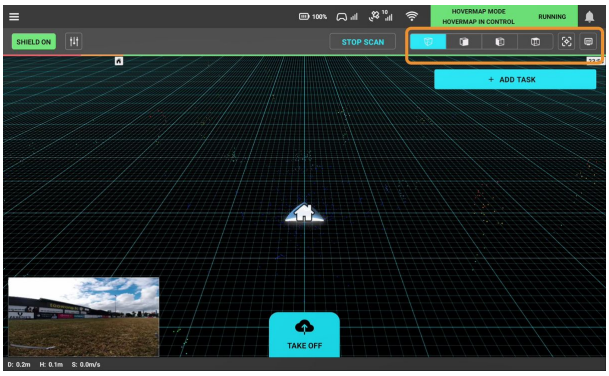
Flight Characteristics

A new **Mission Settings** button has been added to Emesent Commander to replace the **Configure Flight Characteristics** option in the Hovermap App.

Hovermap App	Commander
	
Figure 14 Old UI: Hovermap App - Flight Characteristics	**Figure 15 New UI: Emesent Commander - Mission Settings**

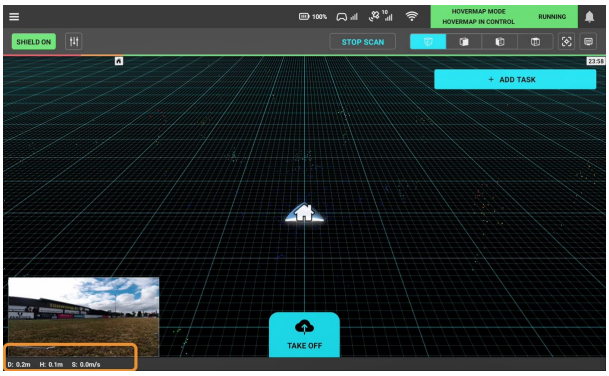
Camera Controls

There are no changes in functionality but the Camera Controls now appear in the secondary toolbar.

Hovermap App	Commander
	
Figure 16 Old UI: Hovermap App - Camera Controls	**Figure 17 New UI: Emesent Commander - Camera Controls**

Telemetry

In Emesent Commander, only Hovermap telemetry data is shown.

Hovermap App	Commander
	
Figure 18 Old UI: Hovermap App - Telemetry	**Figure 19 New UI: Emesent Commander - Telemetry**

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