

QUICK START GUIDE FOR DJI PHANTOM 4 / 4 PRO / 4 PRO+

UgCS for DJI version 2.5 (UgCS desktop version 2.11)

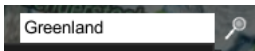
Getting started - Installation

1. Download and install **UgCS** desktop software on your computer: www.ugcs.com/download
2. Download and install **UgCS for DJI** application from Google Play www.ugcs.com/dji_app on the Android device (version 4.4 or later).
3. Download www.ugcs.com/manuals and read:
 - UgCS User Manual,
 - How to connect UgCS and DJI drone.

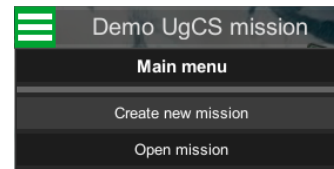
Route Planning

Create missions, plan and test routes in **UgCS**. A mission is like a workspace to combine route planning and vehicle control. See section **Introduction to UgCS Route Planning tools** for brief introduction to UgCS functionality. More detailed information can be found in UgCS User Manual.

4. To plan a route, launch **UgCS**. In **Location search field** type in the address (or latitude and longitude coordinates) to navigate to desired flying location.



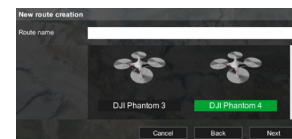
5. In upper left corner click **MENU** button and select **Create new mission**.



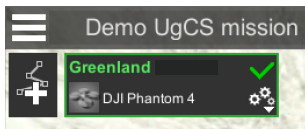
6. Click **Add new route**. Choose whether to create new route from scratch or import from file, and confirm by clicking Next.



7. In next step, select **DJI Phantom 4 / 4 PRO / 4 PRO+** (or Emulator for test). Confirm vehicle choice by clicking Next.



8. In last step **approve default setting** by clicking OK. New **Route card** will be added.



9. Start planning route by setting the starting point. Click **Take-off tool** icon and double-click on the map* to set location from which drone will take-off.

**To be in line with DJI requirements, set vehicle take-off point within 30m radius from RC position.*



10. Choose one of the **Route planning tools** and set further waypoints. To set waypoints:
 - a) double-click or b) hold SHIFT+click on the map.



It is possible to draw a free-hand curve, then waypoints are set automatically by UgCS. To do that a) select the **Modifier** icon or b) hold Alt and by holding left-mouse-button draw free-hand curve with cursor.

11. To change location (latitude and longitude) of any waypoint - click+hold and drag its base. To change altitude - click+hold and move its head.



12. To finish the route, select **Landing tool** and set the landing point by double-click on the map.

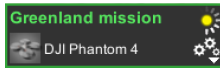
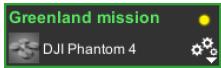


13. **Pathfinding procedure (route calculation)** starts automatically after route is created. Route calculation status is displayed on Route card in right upper corner. The mission periodically is saved automatically when not being edited.

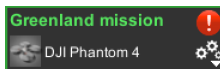
Route status indicators:



— **green check indicator** is displayed if route calculation was successful and is ready for upload to vehicle. Click the indicator to see calculation result info.



— **yellow dot indicator** is displayed, if the route is not calculated or during calculation process (with a loading sign around it). If calculation doesn't start automatically, click on the yellow dot.



— **red exclamation indicator** is displayed, if errors were detected during route calculation process. Detected errors are displayed in Route log. Click the indicator to see calculation result info.

At the field: Route upload and Flying

15. Switch on **DJI Phantom 4 / 4 PRO / 4 PRO+** and **Remote Controller (RC)**. Switch on your **computer** and **Android device**, both devices should be in the same WiFi network - on the Android device select Access Point (AP) mode and connect your computer to this WiFi network.

16. Using **MicroUSB cable** connect **Android** device to **RC**.

17. Application selection screen should appear on the Android device. Select **UgCS for DJI** or start it manually.

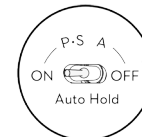
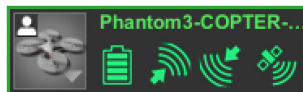
18. When launching **UgCS for DJI** for the first time, the Android device must be connected to internet to pass **DJI verification**. This is an automatic process and does not need any input from you.

19. Once computer and Android device with running UgCS Desktop and UgCS for DJI are on the same network, connection between them will be established automatically - the onscreen **UCS icon** in **UgCS for DJI** will become green.



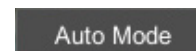
20. In **UgCS Desktop** click **Add vehicle** button to add the DJI Phantom 4 / 4 PRO / 4 PRO+. New **Vehicle card** will be added. Make sure all indicators on vehicle card are green and telemetry is established.

21. On the **RC** select **P-mode**.



22. To upload successfully calculated route (green check), in UgCS desktop click **Route upload** button or **Upload** button from Vehicle command menu. The upload status will be displayed in the Vehicle log.

23. To fly the mission press **Auto Mode** in Vehicle command menu.

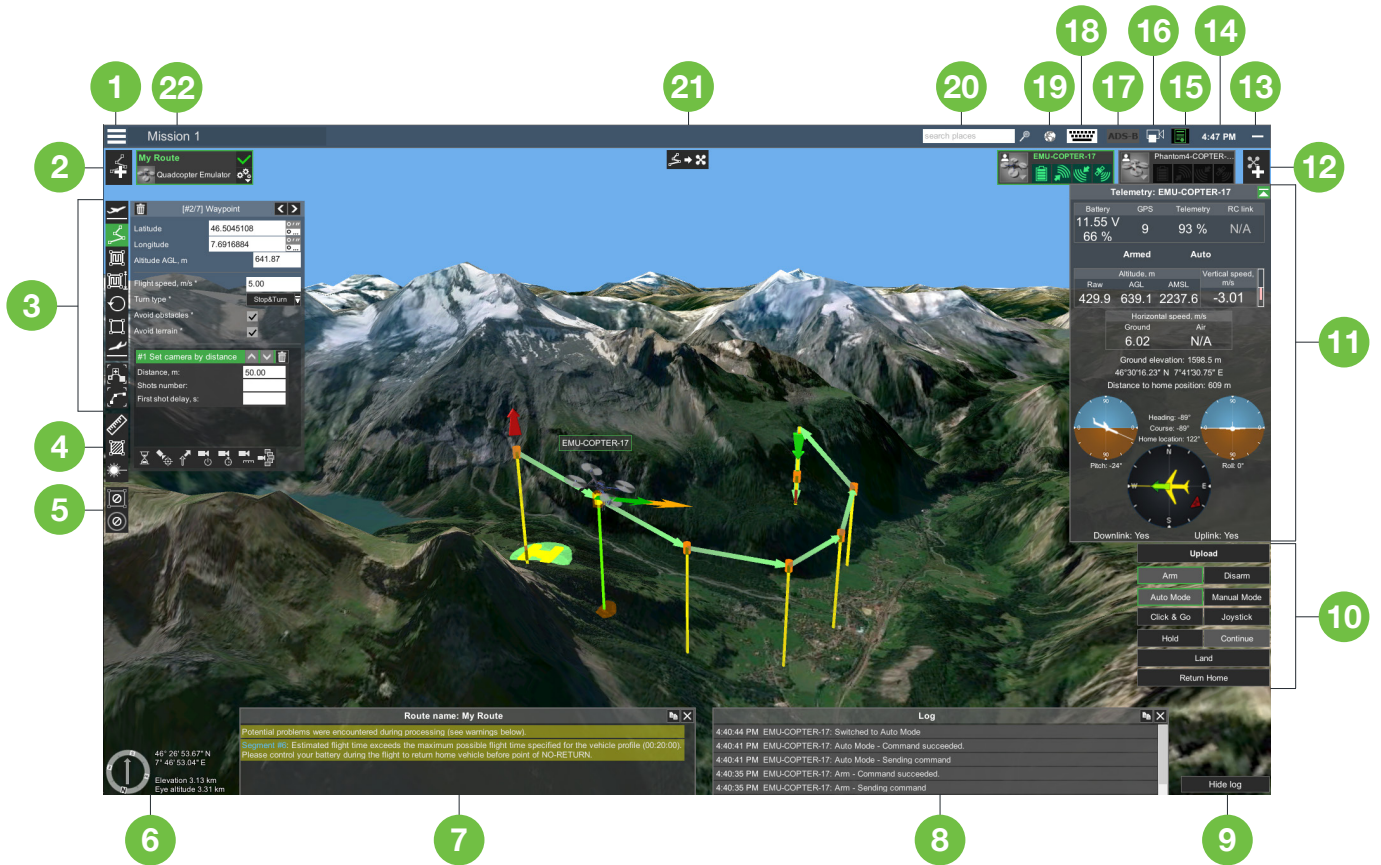


REMEMBER!

- To manually take control over drone toggle the Remote Control's switch from **P-mode** to **S-mode** and back.
- To interrupt mission in Vehicle command menu select: **Click&Go**, control with **Joystick**, **Hold / Continue** mission, **Land / Return Home** commands.
- **Return Home** button on RC remain operational at any time.

Introduction to UgCS Route Planning tools

Brief introduction to **UgCS** functionality. More detailed information can be found in **UgCS User Manual**.



Description

1	<p>MENU button to access Main Menu settings. To switch between Mission editor and Telemetry player, and to Exit (Quit) software. In Mission editor mode available functions are: to Create new, Open, Stop editing, Remove, Import, Export mission. Functions in Telemetry players mode: Create new layout and Import/Export telemetry.</p>
2	<p>From left to right: Add new route button, following by list of created Route cards. Each Route card indicates: Route name, Assigned vehicle profile, Route calculation status and Parameter setting button (right bottom corner of the Route card).</p> <ul style="list-style-type: none"> - Hovering cursor over Route card - short route status will be displayed. - Click the Route calculation indicator to open / hide Route log. - Double-click on Route card will recenter your point of view to appropriate route on map. <p>Route calculation indicators:</p> <ul style="list-style-type: none"> ✓ green check is displayed if route is calculated and it is ready for upload to drone ● yellow dot is displayed, if route is not calculated. If calculation doesn't start automatically, push the yellow dot. ! red exclamation is displayed, if route is calculated with errors.
3	<p>Route planning tools and associated tool's settings window - select a tool, draw route segment on the map, then configure parameters in route's tool setting window. Note: available Route planning tools can differ, depending on vehicle type.</p>
4	<p>Measurement tools: Distance, Area and Visibility measurement tools.</p>
5	<p>No-Fly-Zone drawing tools: Polygon and Conical drawing tools.</p>
6	<p>Compass, cursors coordinates on map and elevation indicator. To return map to North-up view, click the compass icon.</p>
7	<p>Route log - all route related notifications are displayed here. To open the log, click on route card's calculation status indicator.</p>

	Description
8	Vehicle log - recent vehicle related notifications appear here, but will disappear after some time. To open full vehicle notification list select Show log button.
9	Show / hide route log button.
10	Vehicle command buttons - these commands are never blocked, enabling pilot to send any command to the vehicle at any time. Note: Vehicle command buttons can differ, depending on vehicle type. - if button is dark grey - it is active and command can be sent to vehicle. If button is light-grey - based on telemetry data, it is not possible to send command to vehicle - the button is inactive. - if button has green border, then according to telemetry data the vehicle is in current mode. (In the example screenshot the vehicle is Armed in Auto mode.) - some commands may require confirmation before activation, then additional window will appear.
11	Telemetry window for selected vehicle.
12	From right to left: Add vehicle button, enables to add vehicle to mission from list. Usually all vehicles connected via datalink to computer are automatically added to the list. Vehicle cards will be displayed to the left from Add vehicle button indicating: Vehicle name, Battery status, Uplink level, Downlink level, GPS status (satellites count) and settings button (right bottom corner on Vehicle icon). - Hovering cursor over Vehicle card - basic information about the vehicle is shown (name, profile, serial number, connection port) - Double-click on the Vehicle card will recenter your point of view to the appropriate vehicle position on the map.
13	User interface minimise / restore button - to hide or show all user interface (UI) elements.
14	Clock - to see clock with milliseconds, hover mouse cursor over the clock.
15	Licence status indicator - displays your UgCS software licence activation status: if green - the licence is activated, if yellow - not activated.
16	Video recording indicator - during video recording the square is red, otherwise - white.
17	ADS-B indicator - ADS-B receiver connection status: if ADS-B receiver is connected the indicator is green, if not connected - grey.
18	Input mapping (keyboard symbol) - keyboard and joystick configuration to check mapping and calibration for connected devices.
19	Map option menu (globe symbol) - Layers: to select map and overlay providers, elevation sources; add buildings, import placemarks and offline caching.
20	Location search field - enter address or latitude and longitude coordinates to navigate to your desired location. This functions depends on internet connection!
21	Route upload button to selected vehicle (active only for successfully calculated routes marked with green check indicator). If the upload button is inactive (grey), please check status of route's calculation indicator.
22	Mission's title field. To change Mission title, double-click on the field and type in desired name. The title is saved automatically.

If you have questions, please contact UgCS Support team www.ugcs.com/support

- This Quick Start Guide is subject to change without prior notice. Get latest version from www.ugcs.com/download
- UgCS feature availability depends on the licence type, more info www.ugcs.com

Safe flights!