



## PHANTOM 4 RTK Release Notes

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Date:	2020.07.21
Aircraft Firmware:	v02.02.0503
Remote Controller Firmware:	Phantom 4 RTK Remote Controller: v02.02.0505 Phantom 4 RTK (SDK) Remote Controller: v02.02.0503
D-RTK 2 Mobile Station Firmware:	v02.02.0505
DJI GS RTK App:	v2.1.9-GSP
DJI Assistant 2 For Phantom:	v2.0.10
DJI Assistant 2 For MG:	v2.0.18

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### What's New?

- Added the Linear Flight (Adjustable Height) operation type that is suitable for corridor areas with large changes in elevation.
- Added the Angled Flight Route operation type that is suitable for operating in areas with slopes.
- Added the Maintain Positioning Accuracy mode. This mode keeps the aircraft in the RTK FIX status for a period of 10 minutes after RTK is disconnected. In this mode, the aircraft positioning accuracy will decrease gradually. Be sure to fly with caution.
- Added the function to record input D-RTK 2 coordinates in the DJI GS RTK app.
- Added support for the following languages in DJI GS RTK: German, Spanish, French, and Russian.
- Elevation optimization in operation parameters settings is now enabled by default.
- Optimized gimbal protection during aircraft self-check after powered on.
- Fixed the issue where an incorrect notification of KML data out of range when importing both the DSM and KML files to plan operations in Terrain Awareness Mode.

### Notes:

- The aircraft cannot be downgraded to v02.02.0011 or a lower version after this firmware update.
- After updating the Phantom 4 RTK Remote Controller with this firmware version, the remote controller can only be used with the Phantom 4 RTK aircraft.
- Make sure that the firmware for the aircraft, remote controller and D-RTK 2 Mobile Station is all up-to-date. Otherwise, they will not work together.
- Using this firmware with a version of DJI Terra older than v1.2.0. is not recommended, as some functions will not work properly.



## PHANTOM 4 RTK Release Notes

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Date:	2020.03.10
Aircraft Firmware:	v02.02.0401
Remote Controller Firmware:	Phantom 4 RTK Remote Controller: v02.02.0403 Phantom 4 RTK (SDK) Remote Controller: v02.02.0401
D-RTK 2 Mobile Station Firmware:	v02.02.0403
DJI GS RTK App:	v2.1.6
DJI Assistant 2 For Phantom:	v2.0.8
DJI Assistant 2 For MG:	v2.0.13

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### What's New?

- When planning Photogrammetry, Linear Flight, Terrain Awareness, and Block Segmentation operations:  
Added a Metering Mode option in Camera Settings. The default is average metering as it best serves mapping applications.  
  
Added Relative Altitude in operation parameters to set the relative height between the takeoff point and the operation area. NOTE: Make sure to set the correct relative height to ensure the results contain appropriate overlap ratios.  
  
Max flying speed is now displayed with an accuracy up to one decimal place.
- When planning Terrain Awareness operations, mission areas can be created by importing KML/KMZ files.
- Exported mission files now includes elevation optimization data.
- Log-ins to the DJI GS RTK app are valid for 60 days instead of 7 days.
- Changed the output file format of the D-RTK 2 mobile station to CSV when using the mobile station as an RTK rover.
- Fixed the rare issue where the camera skipped some shots.
- Fixed rare control stick calibration failures.
- Fixed the issue where firmware v02.02.03xx failed to download in the DJI GS RTK app.
- Optimized the UI for Cloud PPK Service and added more countries/regions where PPK data can be used. The Service is available everywhere except Hong Kong SAR, Macao SAR, USA, and Canada.
- Only Mapbox is supported now for map display in the DJI GS RTK app. (Mainland China version excluded)

### Notes:

- The aircraft cannot be downgraded to v02.02.0011 or a lower version after this firmware update.
- After updating the Phantom 4 RTK Remote Controller with this firmware version, the remote controller

<http://www.dji.com/phantom-4-rtk>



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can only be used with the Phantom 4 RTK aircraft.

- The firmware for the D-RTK 2 Mobile Station can only be updated using the DJI GS RTK app.
- Make sure that the firmware for the aircraft, remote controller and D-RTK 2 Mobile Station is all up-to-date. Otherwise, they will not work together.
- Using this firmware with a version of DJI Terra older than v1.2.0. is not recommended, as some functions will not work properly.



## PHANTOM 4 RTK Release Notes

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Date:	2019.12.02
Aircraft Firmware:	v02.02.0312
Remote Controller Firmware:	Phantom 4 RTK Remote Controller: v02.02.0307 Phantom 4 RTK (SDK) Remote Controller: v02.02.0312
D-RTK 2 Mobile Station Firmware:	v02.02.0307
DJI GS RTK App:	v2.1.2
DJI Assistant 2 For Phantom:	v2.0.8
DJI Assistant 2 For MG:	v2.0.13

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### What's New?

- Added an option to control the Terrain Rendering Map Display in the app. When planning a Terrain Awareness operation, users can enable or disable the display in General Settings.
- Fixed the issue where the Waypoint operations could not include the absolute altitude when exporting the operations.

### Notes:

- The aircraft cannot be downgraded to v02.02.0011 or a lower version after this firmware update.
- After updating the Phantom 4 RTK Remote Controller with this firmware version, the remote controller can only be used with the Phantom 4 RTK aircraft.
- The firmware for the D-RTK 2 Mobile Station can only be updated using the DJI GS RTK app.
- Make sure that the firmware for the aircraft, remote controller and D-RTK 2 Mobile Station is all up-to-date. Otherwise, they will not work together.
- Using this firmware with a version of DJI Terra older than v1.2.0. is not recommended, as some functions will not work properly.



## PHANTOM 4 RTK Release Notes

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Date:	2019.09.16
Aircraft Firmware:	v02.02.0011
Remote Controller Firmware:	Phantom 4 RTK Remote Controller: v02.02.0014 Phantom 4 RTK (SDK) Remote Controller: v02.02.0011
D-RTK 2 Mobile Station Firmware:	v02.02.0014
DJI GS RTK App:	v2.1.1
DJI Assistant 2 For Phantom:	v2.0.7
DJI Assistant 2 For MG:	v2.0.13

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### What's New?

- Added a Block Segmentation function to divide large mapping areas into multiple missions that can be executed using single aircraft or multi aircraft in Multi-Aircraft Control mode.
- Added altitude optimization for orthogonal operations. When enabled in the app, the aircraft will fly to the center of the operation area to collect a set of oblique images after the flight to optimize the altitude accuracy.
- Added multiple flight modes (for Japan only). When enabled in the aircraft settings in the app, users can switch the flight mode using the flight mode switch on the remote controller. The P and F positions on the remote controller are for P-mode, and the A position is for A-mode.
- D-RTK 2 High Precision GNSS Mobile Station can now be used as an RTK rover.
- Added Cloud PPK Service to provide high precision positioning computation (for Europe only, Russia excluded). Users can upload satellite observations files and raw PPK files to the cloud server for post processing and view the results of the PPK calculation.
- Added aircraft altitude comparison in Multi-Aircraft Control mode to optimize obstacle sensing among multiple aircraft. When the altitude difference between aircraft is more than 5 m, criss-cross flight is supported.
- Added a data copy function to the D-RTK 2 Mobile Station. Connect the D-RTK 2 Mobile Station to the computer to copy the PPK data directly.
- Optimized Waypoint operations. When RTK is enabled and it is working properly, users can choose to perform missions using an absolute altitude. Users can select between absolute altitude and relative altitude when starting the mission.
- Optimized UI for Terrain Awareness mode.
- Adjusted the restricted zones for country borders to improve the accuracy of the flight limits.
- Fixed the issue where the Network RTK was unstable in some regions when using a Huawei dongle.

Fixed the issue where new firmware could not be downloaded in the DJI GS RTK app. When using an old version of the app, this issue can be fixed by: going to the main screen, tapping Menu, then Settings, Apply



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to All, Explorer, Internal Memory, and entering the path DJI\firm to delete the old firmware file.

### Notes:

- After updating the Phantom 4 RTK Remote Controller with this firmware version, the remote controller can only be used with the Phantom 4 RTK aircraft.
- The firmware for the Phantom 4 RTK Remote Controller and D-RTK 2 Mobile Station can only be updated using the DJI GS RTK app.
- Make sure that the firmware for the aircraft, remote controller and D-RTK 2 Mobile Station is all up-to-date. Otherwise, they will not work together.
- Using this firmware with a version of DJI Terra older than v1.2.0. is not recommended, as some functions will not work properly.



## PHANTOM 4 RTK Release Notes

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Date:	2019.06.03
Remote Controller Firmware:	v02.01.0012
DJI GS RTK App:	v2.0.4
DJI Assistant 2 For Phantom:	v2.0.7
DJI Assistant 2 For MG:	v2.0.13

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### What's New?

- Fixed an issue where the system language of the remote controller's display would change after firmware update.



## PHANTOM 4 RTK Release Notes

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Date:	2019.05.07
Aircraft Firmware:	v02.01.0009
Remote Controller Firmware:	v02.01.0009
DJI GS RTK App:	v2.0.4
DJI Assistant 2 For Phantom:	v2.0.7
DJI Assistant 2 For MG:	v2.0.13

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### What's New?

- Added the 3D Photogrammetry (Multi-oriented) operation type. After planning the operation area, the generated flight routes will include a single orthographic flight route and four oblique flight routes.
- Added the Terrain Awareness Mode operation type. To plan a Terrain Awareness operation, create a folder in the DJI\DSM path in the root directory of the microSD card, put tif and tfw files into it, and then import the files to the app. After planning flight route in the area corresponding to the imported files, the aircraft will follow the terrain when flying along the route.
- Added notifications for abnormal Intelligent Flight Battery level. If abnormal battery level is detected, there will be a prompt in the app and RTH will be triggered.
- Optimized the flight route planning for Linear Flight operations. Enable or disable “Flight route generated along center line” in the settings to determine whether the generated flight route will include the center line added when planning the operation.
- Fixed the issue of slow task list loading.
- Fixed the rare issue: there was camera preview image jitter during RTH.
- Fixed issue: the remote controller firmware of the MG-1P and Phantom 4 RTK were not compatible with each other.

### Notes:

- This firmware includes Intelligent Flight Battery firmware. **If you have multiple batteries, please run this firmware update on all of them.**
- The remote controller cannot be downgraded after this firmware update.
- This firmware update may take a long time. Please wait and DO NOT power off the aircraft during updating.
- Make sure that the firmware for both the aircraft and remote controller is up-to-date. Otherwise they will not work together.





## PHANTOM 4 RTK Release Notes

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Date:	2019.02.20
Aircraft Firmware:	v01.07.0118
DJI Assistant 2 For Phantom:	v2.0.6
DJI Assistant 2 For MG:	v2.0.12

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### What 's New?

- Improved battery stability and safety after the battery was not fully charged and discharged during long-term storage.

**If you have multiple batteries, please run this firmware update on all of them.**

### Notes:

- This firmware update may take a long time. Please wait and DO NOT power off the aircraft during updating.
- Make sure that the firmware for both the aircraft and remote controller is up-to-date. Otherwise they will not work together.

## PHANTOM 4 RTK Release Notes

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Date:	2019.01.22
Aircraft Firmware:	v01.07.0116
Remote Controller Firmware:	v01.07.0116
DJI GS RTK App:	v1.8.25
DJI Assistant 2 For Phantom:	v2.0.6
DJI Assistant 2 For MG:	v2.0.10

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### What's New?

- Added support for the remote controller without a built-in display for use with Mobile SDK apps.
- Added Timed Shooting mode in Photogrammetry and Linear Flight operations.
- Added the option in Advanced Settings when planning a Photogrammetry operation to set the margin of the operation area automatically.
- Added support for export and import of the planned operations using a microSD card.
- Added support for RTCM 3.2 MSM3 when using custom network RTK.
- Added the option in General Settings in Camera View to select Grid as FPV Display Mode.
- Added the function to center the gimbal by double tapping the gimbal pitch status bar in Camera View.
- Cancelled the limit for the length of the flight route when planning an operation.
- Optimized the calculation for the flight route and operation duration.
- Fixed occasional issue: app crash caused by some random operations.
- Fixed occasional issue: there was no marker for the breakpoint after pausing the operation.
- Fixed occasional issue: the storage path of the pictures shot during automatic operations was wrong.
- Fixed issue: wrong display of some text in the app.
- Fixed issue: wrong display of GSD value when system language was Japanese.

### Notes:

- This firmware update may take a long time. Please wait and DO NOT power off the aircraft during updating.
- Be sure to update the firmware for both the aircraft and the remote controller. Otherwise they will not work together.



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Date:	2019.01.02
DJI GS RTK App:	v1.8.22-GSP-HF.1

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### What's New?

- Extended the free trial period for the function of creating operation areas through KML/KMZ files.

### Notes:

- Only an app update is required. There is no need to update the remote controller or aircraft firmware.



## PHANTOM 4 RTK Release Notes

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Date:	2018.12.05
Aircraft Firmware:	v01.06.0104
Remote Controller Firmware:	v01.06.0106
DJI GS RTK App:	v1.8.22
DJI Assistant 2 For Phantom:	v2.0.6
DJI Assistant 2 For MG:	v2.0.10

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### What 's New?

- Added the operation type of Linear Flight, and the support for KML/KMZ files import to create a Linear Flight operation area.
- Added support for RTCM 3.2 MSM6, and MSM7 when using custom network RTK.
- Added Galileo satellite count display in RTK Settings in the app.
- Added the option in Aircraft Settings in the app to exit operations after remote controller signal is lost.
- Added support for gimbal pitch angle configuration to be set to more than 0° which indicates the upward movement of the gimbal.
- Added support for the remote controller to use the Network RTK service via Wi-Fi.
- Added support for the remote controller to connect to the Internet via Wi-Fi for aircraft activation.
- Changed the maximum number of waypoints in one operation to 200.
- Changed the maximum area margin in Photogrammetry operations to 200 meters.
- Optimized the calculation for the threshold of battery level during Low Battery RTH to prolong time for executing operations.

### Notes:

- This firmware update may take a long time. Please wait and DO NOT power off the aircraft during updating.
- Be sure to update the firmware for both the aircraft and the remote controller. Otherwise they will not work together.



## PHANTOM 4 RTK Release Notes

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Date:	2018.10.16
Aircraft Firmware:	v01.05.0106
Remote Controller Firmware:	v01.05.0108
DJI GS RTK App:	v1.8.15
DJI Assistant 2 For Phantom:	v2.0.4
DJI Assistant 2 For MG:	v2.0.8

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### What's New?

- Added the operation type of Photogrammetry 3D for tilt photogrammetry and 3D mapping.
- Added the function to obtain the aircraft's last known position. Go to Camera View in the app > ●●● > ●●● > Find Aircraft to view the longitude and latitude coordinates where the aircraft was powered off or remote controller signal was lost for the last time.
- Added the function to store firmware package cache in the aircraft for offline update. There will be a prompt on the Main Screen in the app when the firmware of some modules such as Intelligent Flight Battery doesn't matched the current aircraft firmware. Tap Update to finish firmware update without downloading the firmware once more.
- Changed the naming rule of the image files and folders of the Photogrammetry operations to fix the issue of duplicate file names when multiple groups of images are used for post-processing.
- Added the contents recorded in the MRK files produced during a Photogrammetry operation, such as the offset from the antenna phase center to the camera sensor center, the latitude and longitude of the camera, and the RTK information (including the RTK positioning status, and the standard deviation of the base station data is recorded if a base station is in use) when shooting.

### Notes:

- This firmware update may take a long time. Please wait and DO NOT power off the aircraft during updating.
- Be sure to update the firmware for both the aircraft and the remote controller. Otherwise they will not work together.