

## M300 RTK Release Notes

Released Date:	2020.08.24
Aircraft Firmware:	v01.00.02.11
Remote Controller Firmware:	v01.00.02.13
Pilot App Android	v1.9.0R
D-RTK 2 Mobile Station:	v03.00.00.13
Intelligent Battery Station:	v01.05.06.06
Intelligent Flight Battery:	v01.02.05.28
Zenmuse H20 / H20T:	v01.00.02.11
Zenmuse Z30:	v01.00.06.10
Zenmuse XT2:	v01.00.03.50
Zenmuse XT S:	v01.00.00.09
DJI X-Port:	v01.02.01.13
DJI Assistant 2 For Matrice:	v2.0.13
Firmware Upgrade Method:	<p>Aircraft / Remote Controller: DJI Assistant 2 / App</p> <p>Zenmuse H20 / H20T: microSD card / DJI Assistant 2 / App</p> <p>D-RTK 2 Mobile Station: DJI Assistant 2</p> <p>The built-in DJI Pilot app: will be updated with the Remote Controller firmware</p> <p>Intelligent Battery Station: App (Connect the Battery Station to the remote controller and update it on the HMS page in the DJI Pilot app.)</p>

## What's new ?

### Flight Mission

- Added Waypoint Monitor, where the next two waypoints can be displayed as blue diamonds on FPV and camera view. And the arriving waypoints height and flight route speed will be displayed on FPV view.
- The remote controller without flight control rights supports to display the execution status of the simplified route.
- Added Linear Flight Mission, supporting mapping scenes such as rivers and highways.
- The photos taken during Flight Mission are automatically stored in different folders, and the folder names can be customized.

### AI Spot-Check

- Added oblique selection box to select the object in the photo for AI Spot-Check.
- The camera will be automatically set to zoom camera in AFS mode. Photo capturing and video recording are disabled to avoid disoperation for AI Spot-Check.
- Optimized the AI Spot-Check stability, improving operation efficiency and user experience.

### Firmware Update

- Added a consistency firmware update entrance in the Health Management System.
- Optimized the firmware update in app efficiency.



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- Adjusted the minimum battery power requirement for firmware update to 25% for the aircraft and 50% for the remote controller.

### Flight Controller

- Added RTK single point backup to improve flight reliability in special scenarios.
- Optimized the return home algorithm during low battery mode to improve the safety of long-distance return home in windy weather.
- Optimized the Three Propeller Emergency Landing feature to improve the controllability during landing.
- The maximum descent speed of P mode is increased from 3 m/s to 4 m/s.

### Smart Pin & Track

- Added Look At feature where user can control the gimbal and camera to focus to PIN point using one click.
- Added support to modify the GPS 3D coordinates of the PIN point on map page.
- Adjusted to display the height of RNG and Smart Track as altitude.
- Optimized the Smart Track algorithm to improve tracking accuracy and stability.
- Optimized the RNG feature to improve the stability of ranging.

### DJI Pilot App

- Added the ability to display the GPS coordinates of the aircraft on the map page.
- Added tutorial videos academy.
- Added the function to manually switch to the attitude mode, and the T/P/S mode can be set to A/P/S mode in the app.
- Added functionality to export the remote control logs by flight to improve log export efficiency.
- Added an animated prompt for tightening the aircraft arm sleeves.
- Added cache cleaning for Pilot App (such as: pictures, App logs).
- Adjusted to set the top and bottom vision system separately.
- Adjusted the auxiliary light to auto mode after turned off Discreet Mode.
- Adjusted the high wind warning display from the absolute direction to the direction relative to the aircraft.
- Optimized the Enterprise Shield by adding auto activation and status checking.
- Added a vertical speed bar display to the FPV and camera view, improving the flight experience.
- Optimized the pre-flight check list by adding the status display of battery, RTK and other modules.

### Advanced Dual Operator Mode

- Added functionality to control the zoom of the camera by using the joystick of the RC with gimbal control.
- Add a pop-up prompt to indicate that the features that remote controller B is not supported, improving the remote controller B operation experience.
- Optimized the display of the gimbal video transmission for the aircraft flight controller pilot. The remote controller without gimbal control can show the camera type and zoom rate.

### Video Transmission System

- Added functionality to support the adaptive bit rate for the Video Transmission System of PSDK camera.
- Adjusted the power map to FCC in Hong Kong, China.

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### Sensing System

- Adjusted the horizontal obstacle avoidance status to four-way independent display, and supported to use the infrared sensor for obstacle avoidance once the vision system obstacle avoidance failed.
- Optimized the positioning stability for the vision system.

### Remote Controller

- Added functionality to control the camera zoom by rotating the Gimbal Pan Control Dial with holding the Confirm Button.
- Added the remote controller vibration for reminding when the RTK/GPS/vision signal is lost.
- Added functionality to adapt external mobile devices (recommended devices: Samsung Galaxy Tab S6, Xiaomi tablet 4, Huawei M3, M5, M6).

### Notes

- Make sure that the aircraft, remote controller, battery, D-RTK 2 mobile station (if used), payload (if used) are updated to the latest firmware version.
- Download the latest firmware from official website to microSD card to update the Zenmuse Z30, XT S, XT2 or H20 / H20T.
- It is required to use the DJI Pilot app built-in the remote controller, or download the app of V1.9.0R or later.

## M300 RTK Release Notes

Released Date:	2020.06.04
Aircraft Firmware:	v01.00.01.09
Remote Controller Firmware:	v01.00.01.08
Pilot App Android	v1.8.0R
D-RTK 2 Mobile Station:	v03.00.00.13
Intelligent Battery Station:	v01.05.06.04
Intelligent Flight Battery:	v01.02.05.22
Zenmuse H20 / H20T:	v01.00.01.08
Zenmuse Z30:	v01.00.06.10
Zenmuse XT2:	v01.00.03.50
Zenmuse XT S:	v01.00.00.09
DJI X-Port:	v01.01.01.00
DJI Assistant 2 For Matrice:	v2.0.11
Firmware Upgrade Method:	<p>Aircraft / Remote Controller / D-RTK 2 Mobile Station: DJI Assistant 2</p> <p>The built-in DJI Pilot app: will be updated with the Remote Controller firmware</p> <p>Gimbal and Camera: microSD card</p> <p>Intelligent Battery Station: App (Connect the Battery Station to the remote controller and update it on the HMS page in the DJI Pilot app.)</p>

## What's new ?

### Aircraft Firmware

- Fixed the issue where the RTK positioning data is difficult to converge or the convergence time is too long in some areas.

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- It is required to use the DJI Pilot app built-in the remote controller, or download the app of V1.8.0R or later.

## M300 RTK Release Notes

Released Date:	2020.05.14
Aircraft Firmware:	v01.00.01.08
Remote Controller Firmware:	v01.00.01.08
Pilot App Android	v1.8.0R
D-RTK 2 Mobile Station:	v03.00.00.13
Intelligent Battery Station:	v01.05.06.04
Intelligent Flight Battery:	v01.02.05.22
Zenmuse H20 / H20T:	v01.00.01.08
Zenmuse Z30:	v01.00.06.10
Zenmuse XT2:	v01.00.03.50
Zenmuse XT S:	v01.00.00.09 (Coming soon)
DJI X-Port:	v01.01.01.00
DJI Assistant 2 For Matrice:	v2.0.11
Firmware Upgrade Method:	<p>Aircraft / Remote Controller / D-RTK 2 Mobile Station: DJI Assistant 2</p> <p>The built-in DJI Pilot app: will be updated with the Remote Controller firmware</p> <p>Gimbal and Camera: microSD card</p> <p>Intelligent Battery Station: App (Connect the Battery Station to the remote controller and update it on the HMS page in the DJI Pilot app.)</p>

## What's new ?

- Adds support for Zenmuse XT S, Z30 and XT2. Note that XT2 can only be mounted on the 1st gimbal port.
- Supports the ability to select two video transmissions (FPV included) to display. Supports up to three video transmissions when using Advanced Dual Operator Mode.
- Updates the manuals in DJI Pilot app.
- Supports customizable button setting for the remote controller.
- Supports Update All function to update firmware (aircraft, remote controller and H20 / H20T) in app.
- Adds Primary Flight Display (PFD) in app, which can help users to see the aircraft information and 6 Directional Sensing and Positioning information more intuitively and easily.
- Adds Smart Pin & Track, allowing users to locate and track the mobile target, and share the location.

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- Supports photo download from the camera for OSDK.
- Supports accurate meta-tagging for PSDK payloads.
- Adds support for Three-propeller Emergency Landing if the aircraft loses the capability of one motor during flight.
- Adds support for GEO Unlocking.
- Optimizes obstacle avoidance logic in the vertical direction of the aircraft.
- Optimizes control precision for AI Spot-check.
- Optimizes battery self-heating and protection strategy and battery balancing function.
- Fixed occasional issue: Breakpoints prevent the aircraft from continued flight in Flight Mission.

## Notes

- Make sure that the aircraft, remote controller, battery, D-RTK 2 mobile station (if used), payload (if used) are updated to the latest firmware version.
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- It is required to use the DJI Pilot app built-in the remote controller, or download the app of V1.8.0R or later.