DJI A3 Release Notes

Date: 2019.01.09
DJI Assistant 2 Version: DJI Assistant 2 for Autopilot v2.0.2
Flight Controller Firmware Version: 1.7.7.0
DJI GO App Version: iOS v3.1.50, Android v3.1.50

What’s New?

• Added a communication baud rate of 1M for onboard SDK.
• Fixed occasional issue: the aircraft could not land automatically after reaching the Home Point during RTH.
• Fixed issue: after setting the PWM signal to the F channel and restarting the flight controller, the F channel would output a minimum value before the preset value.
• Fixed issue: when the remote controller signal was lost, the input for all the channels were cleared. Now only the input for A/E/T/R channels will be cleared.
• Fixed issue: when using a SBUS receiver, the aircraft could not exit Course Lock.
• Fixed issue: when mapping two channels using an SBUS receiver, the configuration could not be saved.

Notes

• Make sure to update the DJI Assistant 2 for Autopilot before updating firmware.
DJI A3 Release Notes

Date: 2018.08.02
DJI GO App Version: iOS v3.1.42, Android v3.1.42
DJI Assistant 2 Version: DJI Assistant 2 for Autopilot v2.0.0
Flight Controller Firmware Version: 1.7.6.0

What’s New?

- Added a PWM signal output to F-channel in Waypoint Actions.
- Optimized control parameters for smaller aircraft.
- Added several data subscription items.
- Fixed an issue where the aircraft will sometimes not fly to the next waypoint.
- Fixed an issue where the output of the F-channel is abnormal when used with the Matrice 600 Series Remote Controller Channel Expansion Kit.

Notes

- DJI Assistant 2 for Autopilot v2.0.0 is required for this firmware update.
DJI A3 Release Notes

Date: 2018.06.11
DJI GO App Version: iOS v3.1.38, Android v3.1.38
DJI Assistant 2 Version: 1.2.4
Flight Controller Firmware Version: 1.7.5.0

What’s New?

- Reduced the barometer’s drift rate to improve the aircraft’s altitude positioning precision.
DJI A3 Release Notes

Date: 2017.06.15
DJl GO App Version: iOS v3.1.11, Android v3.1.5
DJI Assistant 2 Version: 1.11
Flight Controller Firmware Version: 1.7.1.5

What’s New?

Firmware:

• A3-equipped aircraft will now exit Return to Home (RTH) if GPS signal is weak and re-enter RTH if GPS signal is regained.

• Added ground collision detection. The aircraft will stop the motors if a collision is detected.

• Control sensitivity will now reduce automatically if the aircraft is not maintaining altitude stably.

• Added a function that detects whether or not D-RTK is installed correctly.

• Enhanced compass interference prevention while hovering.

• Updated no-fly zones.

• Optimized no-fly zone whitelisting.

• Optimized distance limitations, which are disabled by default and can be enabled in Assistant 2.

• Optimized motor acceleration and deceleration when pulling down the throttle stick to land.

• Optimized accelerometer driver performance.

• Fixed an issue where the aircraft could automatically takeoff and land when idling on the ground.

Onboard SDK (v3.3 is required):

• Added multi-functional channel outputs and inputs.

• Added several options that allow more data to be pushed, including a high-frequency (400Hz) push setting.

• Users can now subscribe data.

• Enhanced interface sampling synchronization for external sensors.

• Updated takeoff, landing, and RTH interfaces.

• Added angular rate control.

• Optimized logic for regaining control.

• Added multi-channel hardware synchronization support (with the latest version of DJI Assistant 2).

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Notes

- When using the D-RTK, be sure to upgrade to this firmware version.
- Ensure that the Lightbridge 2 Air System and Ground System are on the latest firmware version.
- Use the latest version of DJI Assistant 2 to configure the flight controller.
- Flight controller settings will be reset after firmware upgrade. Remember to reconfigure the settings.
- When using the A3 Pro, be sure to upgrade all modules, i.e. the IMU Pro, flight controller, etc.
- Upgrade your iOSD MARK II firmware before use.
DJI A3 Release Notes

Date: 2017.05.11
DJI GO App Version: iOS v3.1.10, Android v3.1.5
DJI Assistant 2 Version: 1.1.1
Flight Controller Firmware Version: 1.7.0.5

What’s New?

Firmware:

- F1 to F8 channel values for the flight controller will now remain unchanged after remote controller is signal lost.
- Added SDK activation through DJI Assistant 2.
- Added GPS information recording when taking stills with a third-party camera connected to a Ronin-MX.
- Added support for SBUS receiver of low data frequency.
- Optimized the switching mechanism for the redundancy system.
- Optimized the judging method for flight status.
- Optimized GPS information encoding.
- Optimized redundant ESC signal transmission detection.
- Optimized motors initialization.
- Optimized the way the aircraft takes off.
- Fixed incorrect altitude control definitions in the SDK.
- Fixed an issue where whitelisted No Fly Zones couldn’t be unlocked.
- Fixed an issue that maximum attitude angle couldn’t be reached in Attitude Mode.

Assistant 2:

- Added Control Performance Parameters in Gain page.
- Added Start Motor button and Start Method option in ESC Setting page.

Notes

- When using the D-RTK, be sure to upgrade to this firmware version.
DJI A3 Release Notes

- Ensure that the Lightbridge 2 Air System and Ground System are on the latest firmware version.
- Use the latest version of DJI Assistant 2 to configure the flight controller.
- Flight controller settings will be reset after firmware upgrade. Remember to reconfigure the settings.
- When using the A3 Pro, be sure to upgrade all modules, i.e. the IMU Pro, flight controller, etc.
- Upgrade your iOSD MARK II firmware before use.
DJI A3 Release Notes

Date: 2017.01.18
DJI GO App Version: iOS v3.1.2, Android v3.1.1
DJI Assistant 2 Version: 1.0.9-2
Flight Controller Firmware Version: 1.7.0.0

What's New?

Firmware:

• Added support for version matching between DJI Assistant 2 and flight control system.
• Optimized the DJI Assistant 2 backup and recovery functionality.
• Optimized SDK activation and version matching.
• Optimized mobile SDK and onboard SDK communication logic.

Notes

• When using the D-RTK, be sure to upgrade to this firmware version.
• Ensure that the Lightbridge 2 Air System and Ground System are on the latest firmware version.
• Use the latest version of DJI Assistant 2 to configure the flight controller.
• Flight controller settings will be reset after firmware upgrade. Remember to reconfigure the settings.
• When using the A3 Pro, be sure to upgrade all modules, i.e. the IMU Pro, flight controller, etc.
• Upgrade your iOSD MARK II firmware before use.
DJI A3 Release Notes

Date: 2017.01.05

DJI GO App Version: iOS v3.1.2, Android v3.1.1
DJI Assistant 2 Version: 1.0.9
Flight Controller Firmware Version: 1.6.0.10

What’s New?

Firmware:

• Added support for Lightbridge 2 Remote Controller Channel Expansion Kit*.
• Added channel mapping for the camera shutter in the map application, and GPS information recording when taking stills.
• Added support for starting the motors individually.
• Optimized the switching mechanism for the redundancy system.
• Optimized Ground Station.
• Optimized SDK data pushing.
• Optimized SBUS remote controller functions and Lightbridge 2 calibration functions.
• Optimized the smart ESC communication check function.
• Optimized the battery voltage protection function.
• Optimized the takeoff protection mechanism when there is compass interference.

Notes

• When using the D-RTK, be sure to upgrade to this firmware version.
• Ensure that the Lightbridge 2 Air System and Ground System are on the latest firmware version.
• Use the latest version of DJI Assistant 2 to configure the flight controller.
• Flight controller settings will be reset after the firmware upgrade. Remember to reconfigure the settings.
• When using the A3 Pro, be sure to upgrade all the modules, i.e. the IMU Pro, flight controller, etc.
• Upgrade the iOsd MARK II firmware before use.

*Soon-to-release remote controller firmware is required.

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DJI A3 Release Notes

Date: 2016.10.21
DJl GO App Version: iOS 3.0.0, Android 3.0.0
DJI Assistant 2 Version: 1.0.6
Flight Controller Firmware Version: 1.5.0.0

What’s New?

Firmware:

- Optimized control algorithms and parameters to improve control performance.
- Optimized IMU calibration algorithms.
- Added support for soft, normal, and sport modes.
- Added ESC calibration support for third party ESCs.
- Added support and optimization for coaxial octocopter aircraft.
- Added support for an extended channel.

Notes

- When using the D-RTK, be sure to upgrade to this firmware version for obtaining the correct Home Point.
- Ensure that the Lightbridge 2 Air System and Ground System are on the latest firmware version.
- Use the latest version of DJI Assistant 2 to configure the A3.
- A3 flight control settings will be reset after the firmware upgrade. Remember to reconfigure the settings.
- When using the A3 Pro, be sure to upgrade all the modules, i.e. the IMU Pro, flight controller, etc.
- Upgrade the iOsd MARK II firmware before use.
**DJI A3 Release Notes**

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**What’s New?**

**Firmware:**

- Added support for the D-RTK GNSS.
- Added support for the A3 Pro.
- Added support for the IOSD MARK II.
- Optimized flight control for different payloads.
- Reduced the issue of sudden drops in aircraft altitude.
- Optimized Intelligent Flight Modes, including Waypoints and POI, and gimbal control.

**Notes**

- Ensure the Lightbridge 2 Air System and Ground System have the latest version firmware.
- Be sure to use the latest version of DJI Assistant 2 to configure the A3.
- A3 flight control settings will be reset after firmware upgrade. Remember to reconfigure the settings.
- When using the A3 Pro, be sure to upgrade all the modules, i.e. the IMU Pro, flight controller, etc.
- Be sure to upgrade the iOSD MARK II firmware before use.