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.

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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.

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DJI A3 Release Notes

Date:	2017.06.15
DJI 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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DJI A3 Release Notes

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.

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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.

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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.

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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
DJI 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 octorotor 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.

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DJI A3 Release Notes

Date:	2016.06.13
DJI GO App Version:	iOS 2.8.3, Android 2.8.1
DJI Assistant 2 Version:	1.0.4
Flight Controller Firmware Version:	1.3.0.0

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.

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