



# INTEL FALCON 8+ UAS

## INTEL DRONE GROUP

Release Notes

3 May 2019

### VERSION HISTORY/REVISION HISTORY

These are the main software releases that have been made available for the Falcon 8+ UAS:

| Date              | Revision                  | Description  |
|-------------------|---------------------------|--|
| May 3, 2019       | IF8P_firmware_v 1.7.1.ZIP | Updates to improve the stability and performance of the product.   |
| December 10, 2018 | IF8P_firmware_v 1.7.ZIP   | Updates to improve the stability and performance of the product.   |
| October 19, 2018  | IF8P_firmware_v1.6.ZIP    | Updates to improve the stability and performance of the product.   |
| July 11, 2018     | IF8P_firmware_v1.4.ZIP    | Updates to improve the stability and performance of the product.   |
| May 25, 2018      | IF8P_firmware_v1.3.ZIP    | Updates to improve the stability and performance of the product.   |
| April 19, 2018    | IF8P_firmware_v1.2.ZIP    | Updates to improve the stability and performance of the product and to support Intel Mission Control flight planning software. |
| December 5, 2017  | IF8P_firmware_v1.1.ZIP    | Updates to improve the stability and performance of the product.   |
| July 5, 2017      | IF8P_firmware_v1.0.ZIP    | Updates to improve the stability and performance of the product.   |

## RELEASE CONTENT

A release contains several files that need to be applied to different parts of the system. Refer to the documentation about the detailed upgrade process.

Table 1-1 Revision numbers of components of the software release.

| Bundle revision          | Component                                  | File                                 | Revision |
|--------------------------|--|--------------------------------------|----------|
| IF8P_firmware_v1.7.1.ZIP | Intel Falcon 8+ UAV                        | TRINITY.ATF                          | 1.7.1    |
|                          | Intel Cockpit Controller                   | COCKPIT.ATF                          | 1.7.1    |
|                          | Intel Cockpit Controller (tablet software) | CockpitControllInstaller_v1.7.36.exe | 1.7.36   |
| IF8P_firmware_v1.7.ZIP   | Intel Falcon 8+ UAV                        | TRINITY.ATF                          | 1.7      |
|                          | Intel Cockpit Controller                   | COCKPIT.ATF                          | 1.7      |
|                          | Intel Cockpit Controller (tablet software) | CockpitControllInstaller_v1.7.36.exe | 1.7.36   |
| IF8P_firmware_v1.6.ZIP   | Intel Falcon 8+ UAV                        | TRINITY.ATF                          | 1.6      |
|                          | Intel Cockpit Controller                   | COCKPIT.ATF                          | 1.6      |
|                          | Intel Cockpit Controller (tablet software) | CockpitControllInstaller_v1.5.82.exe | 1.5.82   |
| IF8P_firmware_v1.4.ZIP   | Intel Falcon 8+ UAV                        | TRINITY.ATF                          | 1.1      |
|                          | Intel Cockpit Controller                   | COCKPIT.ATF                          | 1.1      |
|                          | Intel Cockpit Controller (tablet software) | CockpitControllInstaller_v1.5.82.exe | 1.5.82   |
| IF8P_firmware_v1.3.ZIP   | Intel Falcon 8+ UAV                        | TRINITY.ATF                          | 1.0      |
|                          | Intel Cockpit Controller                   | COCKPIT.ATF                          | 1.0      |
|                          | Intel Cockpit Controller (tablet software) | CockpitControllInstaller_v1.4.20.exe | 1.4.20   |
| IF8P_firmware_v1.2.ZIP   | Intel Falcon 8+ UAV                        | TRINITY.ATF                          | 1.0      |
|                          | Intel Cockpit Controller                   | COCKPIT.ATF                          | 1.0      |
|                          | Intel Cockpit Controller (tablet software) | CockpitControllInstaller_v1.4.18.exe | 1.4.18   |
| IF8P_firmware_v1.1.ZIP   | Intel Falcon 8+ UAV                        | TRINITY.ATF                          | 0.98     |
|                          | Intel Cockpit Controller                   | COCKPIT.ATF                          | 0.98     |
|                          | Intel Cockpit Controller (tablet software) | CockpitControllInstaller_v1.3.15.exe | 1.3.15   |
| IF8P_firmware_v1.0.ZIP   | Intel Falcon 8+ UAV                        | TRINITY.ATF                          | 0.95     |
|                          | Intel Cockpit Controller                   | COCKPIT.ATF                          | 0.95     |
|                          | Intel Cockpit Controller (tablet software) | CockpitControllInstaller_v1.1.10.exe | 1.1.10   |

## INTENDED AUDIENCE

All customers of the Falcon 8+ UAS.

## CUSTOMER SUPPORT

For technical support, including answers to questions not addressed in this product release, visit the technical support forum, FAQs, and other support information at:

<https://www.intel.com/content/www/us/en/support/drones/commercial-drones/000023691.html>

**NOTE:** If your distributor provides technical support for this product, please contact your distributor for support rather than Intel.

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# 1. INTRODUCTION

This document provides information about the updated software for your Intel Falcon 8+ UAS.

To learn more about this product, see:

- New features listed in the [New in this Release](#) section below, or in the product documentation.
- Reference documentation, including documentation about how to install the software is listed in the [Related Documentation](#) section below.

## 2. NEW IN THIS RELEASE

### 2.1 NEW FEATURES

None.

### 2.2 CHANGES TO EXISTING FEATURES

None.

### 2.3 UNSUPPORTED OR DISCONTINUED FEATURES

None.

## 3. FIXED ISSUES

- Partial loss of functionality in GPS/height mode ([SB06-1820-00](#)).

## 4. KNOWN ISSUES

- For improved Intel Cockpit Controller auto-power on function, and to update the Touchscreen Tablet to Intel Cockpit Controller connection robustness, it is recommended to install tablet image 1.13:

<https://www.intel.com/content/www/us/en/support/articles/000030033/drones.html>

## 5. RELATED DOCUMENTATION

Manuals that contain detailed information about performing software upgrades, operating the system and troubleshooting can be found at Intel's website in the support section:

<https://www.intel.com/FalconManual>

Service Bulletin, SB06-1820-00 - Intel® Falcon 8+ UAS Firmware 1.7 Hotfix:

<https://www.intel.com/content/www/us/en/support/articles/000027962/drones/commercial-drones.html>

## 6. SPECIAL CONSIDERATIONS DURING UPGRADE

This upgrade may change the video pipeline on the device. The video pipeline will only be re-flashed once, after the first power-cycle. This means that in order to complete the upgrade, you first need to run through the full flash process, reboot the device and then let it sit idle for approximately 5 minutes to allow the second flash process to complete. This applies for both Cockpit and the Falcon drone. During this time, the Falcon will blink its LEDs rapidly and the Cockpit will show the line "Updating Videolink". There will be no video link between both units before the upgrade is finished. The video link should establish itself automatically when the upgrade process is complete. In case the video link does not come up automatically and 5 minutes have passed, power-cycle both Cockpit and Falcon, ensure both are connected (and that telemetry information is available) and wait until the pairing process for the video link is completed.

## 7. WHERE TO FIND THE RELEASE

All releases are published on Intel's support site. A quick link to this section is:

<http://www.intel.com/FalconDownloads>

## 8. HARDWARE AND SOFTWARE COMPATIBILITY

The upgrade is compatible to all revisions of the Intel Falcon 8+ UAV and the Intel Cockpit Control.

## 9. LEGAL INFORMATION

Please refer to the Intel-OBL-Mobile-Computing-Platform-Software-Limited-License.pdf, which is included in the download of the software.

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