RELEASE NOTES

Cockpit 1.3

(includes Avionics 1.3)
Released on Feb 25th, 2019

This note describes changes and new features since the previous 1.2 version. It includes changes from the application and the associated Avionics firmware.

New feature

Backup screen recording instead of video-only

Upon arming the drone Cockpit will from now on capture the whole tablet screen as seen by the user, instead of only the video stream. As a result, upon review, you can now see all telemetry and pilot actions as they took place during flight. As a result, a new android permission should be granted the first time when the drone is armed and backup video is started.

Telemetry subtitle files are still available on the tablet in case you want to augment the high quality video from the drone SD cards with telemetry in order to make summary videos.

Bug fixes

Tablet <-> RC <-> Drone connection steps

The steps one should take to connect the tablet with the remote control and drone are restored to the original order and in fact can now be used in random order. Whether you first power the remote, the drone or the tablet doesn't matter anymore from now on. An extra warning was added to ask the user to replug the USB cable in case the tablet fails to connect with the remote control.

Low signal - fly closer: false positives

False positives of the "Low signal - fly closer" warning will no longer appear. Instead, when remote control and drone are too close, it can happen the signal strength is deteriorated. In that case you will be prompted with a warning saying "Too high signal - increase distance between R/C and drone".

Master / slave ground unit: false positives

The ground unit will no longer be falsely detected as a "slave"-unit while it is configured as a master, and vice versa.

Known limitations

Tablet compatibility

The application was tested on

- Samsung Galaxy Tab A6 T580 running Android 8
- Samsung Galaxy Tab Active 2 T390 running Android 8

Video quality can differ on other tablet models.

Some minor issues in the user interface can be visible on tablets of a different screen form factor. It is not yet suitable for screen sizes below 7 inches.

Aircraft upgrade compatibility

Aircraft that still happen to have something older than Avionics 1.1 may need one last manual upgrade by SD card.

Cockpit tells you if you need to upgrade using an SD card.

Known issues

- Slight freeze of the user interface on first start after permissions are granted by user
- Firmware upgrade over-the-air is slower on second and subsequent attempts. If doing upgrades in a row from same tablet, please restart Cockpit between each upgrade.

Auto updater

You will be prompted to remove the old Cockpit installation right after the new one is installed. This is only a one time action. Future Cockpit updates will automatically uninstall the previous version.

Compatibility

Works best with:	Avionics 1.2 (Cockpit warns when an upgrade is desired)
	Air Unit 1.1.51
	Ground Unit 1.2.10
	Camera FW 0.11
	Tablets: Galaxy Tab A6, Galaxy Tab Active 2
Supports up to:	Avionics 0.1.0 (with reduced features depending on version)
	Air Unit 1.1.31 (no thermal camera streaming)