

# Vision-RTK 2 Release Notes

Release v2.54.0

**26 OCTOBER 2022**

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# 1. Overview

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This release consists of the following artefact:

- Image: `fp_release_vr2_2.54.0_160.95cc0f92e49d44a08f1f63cc4b2ab6c1.swu`

At the time of release the following support documents and code are valid:

- Documentation
  - Release notes (this document): `VRTK2_FW2.54.0_release notes.pdf`
  - Integration manual: `VRTK2_integration_manual_v1.2.3.pdf`
  - Datasheet: `VRTK2_Datasheet_v0.3.pdf`
- Support software
  - [fixposition driver-4.0.1](#)
  - [fixposition gnss tf-2.0.1](#)

For any questions or issues please send an email to [support@fixposition.com](mailto:support@fixposition.com)

## 2. Release notes

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The changes described here are with respect to the release 2.49.0.

### 2.1 Positioning

- Improved tuning of lawnmower mode
- Improved performance of slow mode

### 2.2 GNSS

- Updated the u-blox ZED-F9P receiver firmware to HPG 1.32

### 2.3 Webinterface

- Added display of GNSS antenna supervisor state and power supply
- Improved status display of auxillary sensor on the System info page
- Fixed 5-minutes badge display in NTRIP stability table
- Fixed error when trying to download bags from an external disk
- Fixed missing checkbox in calibration bags tables

### 2.4 Data interface

- Added support for the “reverse” setting for serial auxillary input
- Added data output before fusion is initialized
- Improved data output
- Fixed output of HEADING2 message

## 2.5 Other

- Added USB network for recovery, available at 10.0.3.1
- Improved camera auto-exposure
- Fixed recording to external ext4 formatted disks
- Fixed timesync not working on first boot after updating firmware

## 2.6 Known limitations

- The RTK configuration is not persistent across software updates
- For evalkit extrinsics please reset fusion configuration.
- When doing “Reset settings” in either the “Sensor Fusion Settings” or “Output Settings”, all reset all fusion settings (extrinsics, mode, output configuration, etc.) as well as the auxiliary sensors configuration are reset.
- If Wi-Fi connection is lost (for example, too far away from hotspot, phone or router) it can take up to two minutes for the connection to come up again. It takes up to 30 seconds for VRTK to detect that the Wi-Fi is gone and up to 90 seconds for it to notice that the Wi-Fi is back in range and reconnect. Typically, the process should take less than 1 minute

# 3. Software update instructions

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Depending on the currently installed version:

- 2.49.0 or later: Upgrade to 2.54.0 by installing the Image.
- 2.48.x or earlier: Do not install the Image. Contact Fixposition for upgrade options.

To install a upgrade image (.swu file):

1. Prepare the sensor for upgrade:
  - Ensure the sensor has a reliable power supply. A power outage during the firmware update process can render the sensor unusable.
  - Ensure that a reliable network connection is used. Using an ethernet connection is strongly recommended. Using a Wi-Fi connection is strongly discouraged.
2. Go to the webinterface (<http://10.0.1.1> in the default ethernet configuration) and go to System -> Firmware
3. Load the update image (the .swu image file) into the Software Update form (drag and drop, or click to open the system's file open dialogue in order to select the .swu image file)
4. Wait until the update has installed and the sensor has rebooted.
5. Verify that the settings in the Configuration -> Fusion page are correct for your setup and adjust them as needed