



# Release Notes

## RF Scout Plus 1.0.14

### Scope

This document describes the changes in RF Scout Plus firmware from version 1.0.5 to version 1.0.14.

**Caution:** This update will, of necessity, open the interlock for the duration of the firmware upload. Remote uploads should be done during non-critical hours or with the interlock manually bypassed.

### Changes in this version

#### New Features and Enhancements

##### **Support added for Burk Technology Precision RF sensors (PRF-1):**

The RF Scout Plus now supports the use of Burk Technology PRF-1 sensors. For detailed information on calibrating PRF-1 sensors please visit the RF Scout Plus support page at [www.burk.com/downloads](http://www.burk.com/downloads). Updates to both the main firmware and display firmware is required to take advantage of this new feature.

### Update instructions

- Visit the RF Scout Plus support page at [www.burk.com/downloads](http://www.burk.com/downloads).
- Download and install the current version Burk Firmware Loader.
- Download and save the RF Scout Plus Main firmware version 1.0.14 zip file and RF Scout Plus Display Firmware 1.0.14 rfs file.
- Download the Burk Firmware Loader manual and follow the instructions on updating the RF Scout Plus main firmware.
- Refresh the web page once the main firmware is complete.
- Click on System->Upload Firmware.
- Click the Choose File button and select the display firmware file: RfScoutPlus\_Display\_1.0.14.rfs.
- Click the Upload Display Firmware button.
- Wait for the display to load its firmware.
- Once complete, close the web page and the Burk firmware loader and your unit is now updated to release 1.0.14.

### Changes in previous versions

#### Changes from firmware version 1.0.12 to version 1.0.13

##### Resolved Issues

##### **Resistance Temperature Detector (RTD) sensors now read correctly:**

The RF Scout now properly reads RTD sensors properly displaying accurate temperature readings.

## Changes from firmware version 1.0.8 to version 1.0.12

### New Features and Enhancements

#### **Support added for compatibility with modified touch screen display design:**

RF Scout Plus units with serial number CB192301 or higher employ a modified touch screen display design. The newer display assembly requires RF Scout Plus firmware 1.0.12 or higher. The newer design also requires RF Scout Plus Display Firmware version 1.0.12 or higher. Additional information can be found in the RF Scout Plus Display Firmware Compatibility Tech Bulletin found in the firmware download package.

## Changes from firmware version 1.0.7 to version 1.0.8

### Resolved Issues

#### **RF Scout Plus channels now properly show as online after initial link with an ARC Plus:**

The ARC Plus now properly displays RF Scout Plus channels after initial link setup without having to reboot the RF Scout.

## Changes from firmware version 1.0.5 to version 1.0.7

### New Features and Enhancements

- 1) Added a High Reflected Power setpoint. This has alarm and interlock capability. **The Major VSWR no longer has interlock capability.** The default for the High Reflected Power is 0W, alarm disabled, interlock disabled.
  - a. If you upgrade from 1.0.5 to 1.0.7 and the VSWR interlock was enabled, the 1.0.7 will still work with the old interlock, but will ask the user for the High Reflected Power Setpoint to enable the interlock. While this value remains unset, the unit continues to provide protection based on VSWR, but the web page will prompt for a value. After the High Reflected Power Setpoint is set, the interlock will respond to high reflected power instead of high VSWR.
  - b. If you upgrade from 1.0.5 to 1.0.7 with the VSWR interlock disabled, then 1.0.7 runs normally with the High Reflected Setpoint interlock disabled.

In either case, the High Reflected Setpoint can be set at any time on the front of the unit.

This behavior is necessary to eliminate remote reset of the interlock which would pose a safety concern, while still allowing updated firmware to be installed remotely.

- 2) The VSWR is only calculated when there is at least 5% of the High Forward Power setpoint on the forward power signal. This helps when calculating VSWR at low powers with noise on the Reflected power signal and Forward power signal. If the High Fwd Power setpoint is not set (0kW), then the RF Scout always calculates the VSWR.
  - a. The Fwd and Ref power readings are validated before they are used in calculations. Invalid sensor readings result in 0W.
  - b. If the VSWR is not correct (REF > FWD, FWD less than 5% of High FWD), the web page and front panel show "----".
- 3) Added the High Ref Power to the front panel and viewed from the web page.
- 4) Removed the help button from the Setup and Alarm Setpoints front panel pages.
- 5) Added an information header block to the web page. This shows the site name/location, user name, user permission, and version.
- 6) Added a check in the web page to read the firmware version to make sure they are in-sync.

For further information or for assistance with this upgrade, please contact Burk technical support at 978-486-3711 or by email at [support@burk.com](mailto:support@burk.com).