



# Software Front Panel User Guide

## 25 MHz to 6 GHz Signal Source

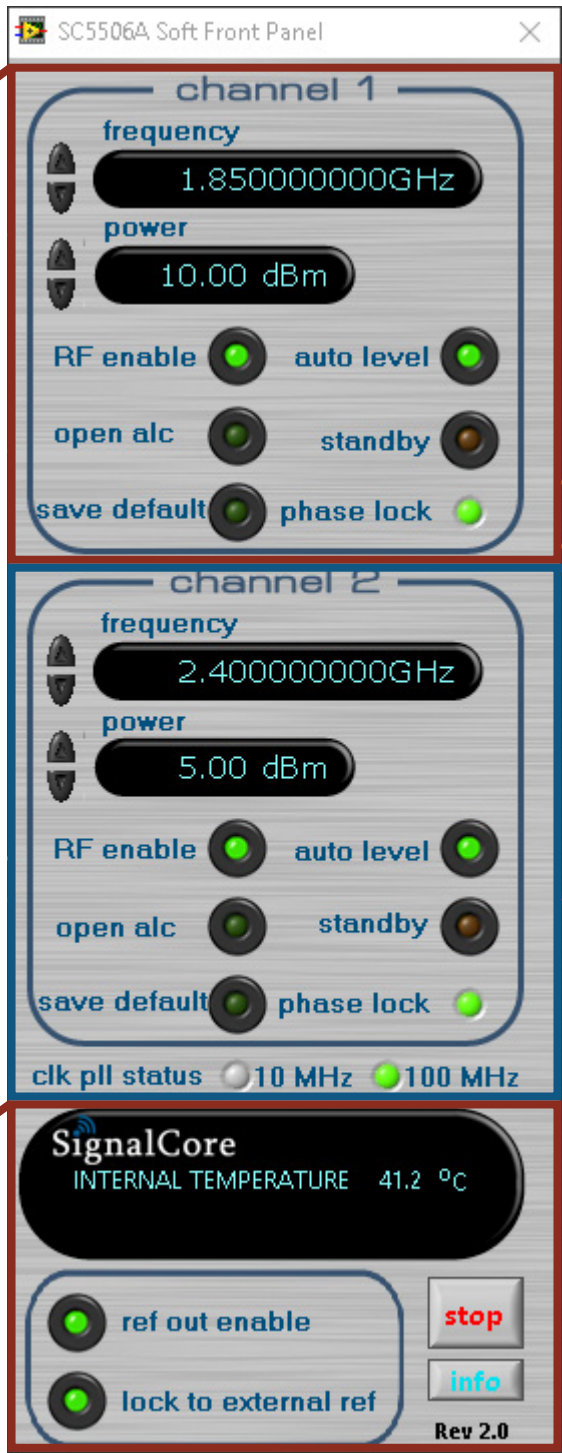
SC5505A and SC5506A Rev 1

# Contents

Tip: To edit number inputs, click in the box to type or click the up and down arrows.

## Section 1

This section contains the settings for Channel 1, including the ability to adjust frequency, power, and toggle other settings.



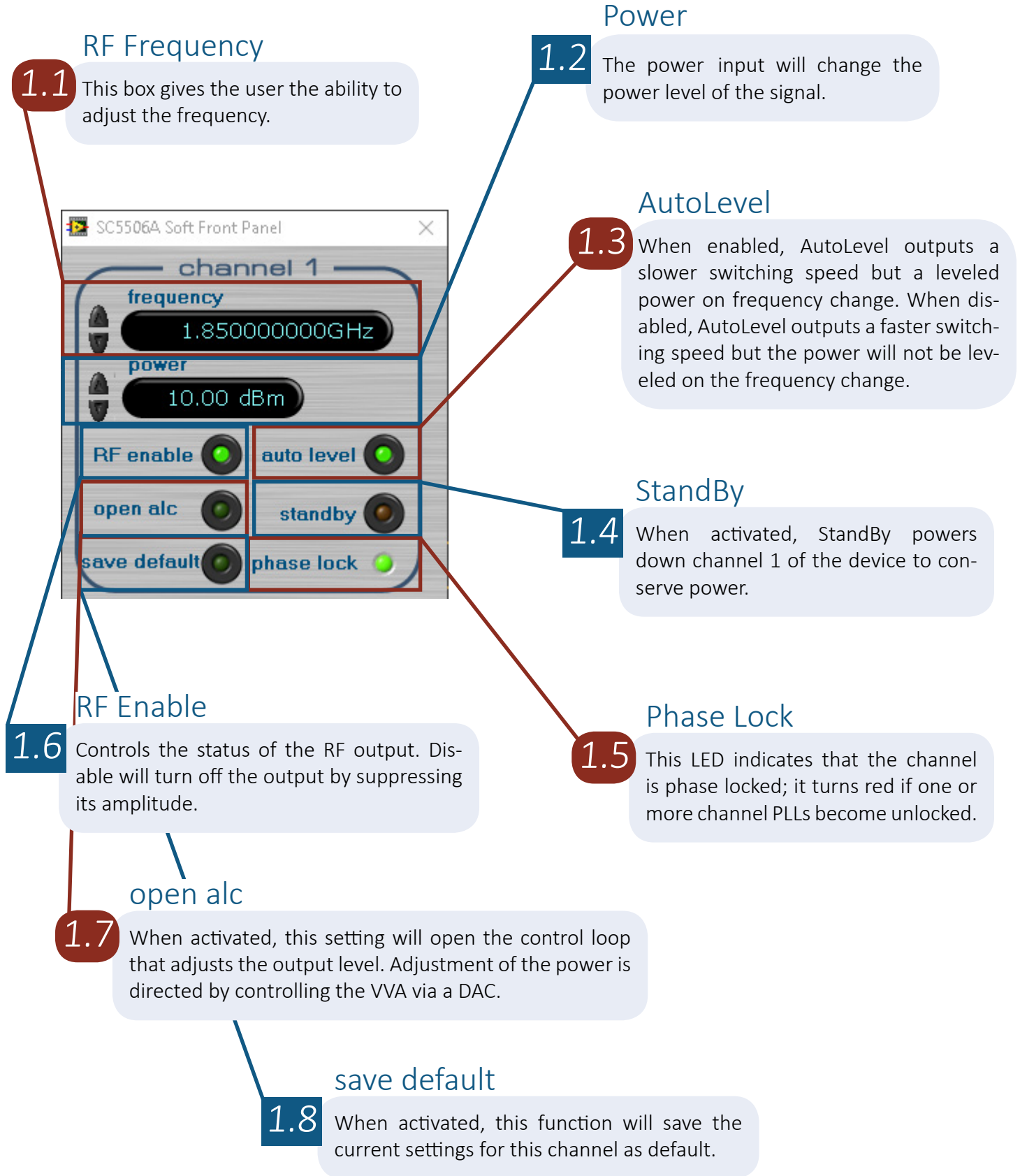
## Section 2

This section contains the settings for Channel 2. They are the same as Channel 1. The clk pll status setting is included in this section but applies to both channels.

## Section 3

This section contains device information and the ability to adjust external reference settings.

# Channel 1 Section 1



# Channel 2 Section 2

## RF Frequency

**2.1** This box gives the user the ability to adjust the frequency.

## Power

**2.2** The power input will change the power level of the signal.



## AutoLevel

**2.3** When enabled, AutoLevel outputs a slower switching speed but a leveled power on frequency change. When disabled, AutoLevel outputs a faster switching speed but the power will not be leveled on the frequency change.

## StandBy

**2.4** When activated, StandBy powers down channel 2 of the device to conserve power.

## RF Enable

**2.6** Controls the status of the RF output. Disable will turn off the output by suppressing its amplitude.

## Phase Lock

**2.5** This LED indicates that the channel is phase locked; it turns red if one or more channel PLLs become unlocked.

## open alc

**2.7** When activated, this setting will open the control loop that adjusts the output level. Adjustment of the power is directed by controlling the VVA via a DAC.

## clk pll status

**2.9** The pll status will display whether the device is running at 10 MHz or 100 MHz.

## save default

**2.8** When activated, this function will save the current settings for this channel as default.

# Section 3

## Message Box

**3.1** This message box displays the current device operating temperature, detection of an external source, and whether external locking is successful.

## Stop

**3.2** Clicking the stop button disconnects the software front panel from the device.

## Info

**3.3** Clicking this button will display the device information such as hardware revision, firmware revision and the manufacture date.

## ref out enable

**3.4** Enabling this function will enable reference out.

## lock to external ref

**3.5** This setting allows the user to lock the internal reference clock to an external source.

