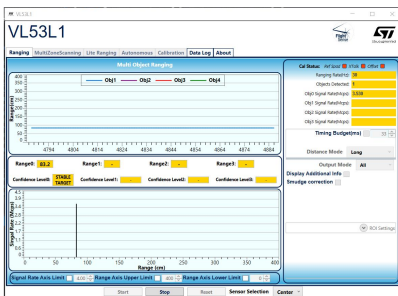## P-NUCLEO-53L1A2 pack graphical user interface (GUI)

Features

- Live display of:
  - ranging distance in centimeters
  - signal strength
- Region of interest (ROI) on the sensing array; size and position are programmable
- Calibration procedure
- Maximum and minimum ranging threshold controls
- Ranging data logging

Description

The STSW-IMG020 is a graphical user interface (GUI) for Windows 7 and Windows 10. The GUI controls the P-NUCLEO-53L1A2 pack which consists of the X-NUCLEO-53L1A2 expansion board connected to the STM32F401RE nucleo board.

It is possible to control one VL53L1 external breakout board when it is connected to the X-NUCLEO-53L1A2 expansion board through one of the dedicated connectors.

The VL53L1 is a state-of-the-art, ToF (Time-of-Flight), laser-ranging, miniature sensor enhancing STMicroelectronics' FlightSense product family. Housed in a miniature and reflowable package, it integrates a SPAD (single photon avalanche diode) array, physical infrared filters, and optics to achieve the best ranging performance in various ambient lighting conditions, with a wide range of cover windows.

To install the STSW-IMG020 GUI, refer to the X-NUCLEO-53L1A2 quick-start guide.

DB4253 - Rev 1 - June 2020
For further information contact your local STMicroelectronics sales office.

www.st.com

Revision history

Table 1. Document revision history

Date	Version	Changes
19-Jun-2020	1	Initial release

IMPORTANT NOTICE – PLEASE READ CAREFULLY