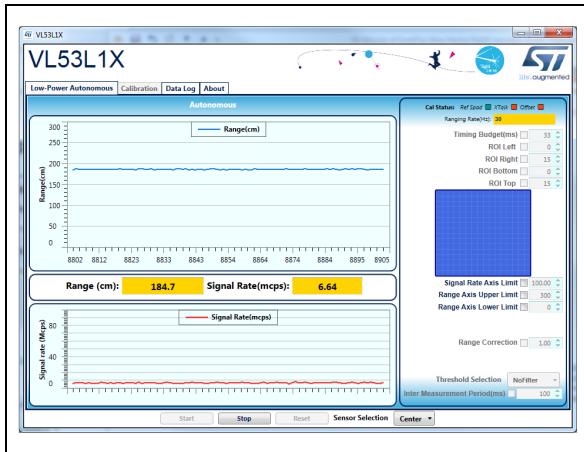


P-NUCLEO-53L1A1 pack graphical user interface (GUI)

Data brief



Description

The STSW-IMG008 is a graphical user interface (GUI) for Windows 7, Windows 8, and Windows 10. The GUI controls the P-NUCLEO-53L1A1 pack which consists of the X-NUCLEO-53L1A1 expansion board connected to the STM32F401RE nucleo board.

It is possible to control one VL53L1X external breakout board when it is connected to the X-NUCLEO-53L1A1 expansion board through one of the dedicated connectors.

The VL53L1X is the latest product based on ST's patented FlightSense™ technology. This is a ground-breaking technology allowing absolute long-distance to be measured independently of the target reflectance. Instead of estimating the distance by measuring the amount of light reflected back from the object (which is significantly influenced by color and surface), the VL53L1X precisely measures the time the light takes to travel to the nearest object and reflect back to the sensor (Time-of-Flight).

To install the STSW-IMG008 GUI, refer to the X-NUCLEO-53L1A1 quick start guide.

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
- Data log outputs
- I2C transaction recording

1 Revision history

Table 1. Document revision history

Date	Revision	Changes
13-Feb-2018	1	Initial release

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