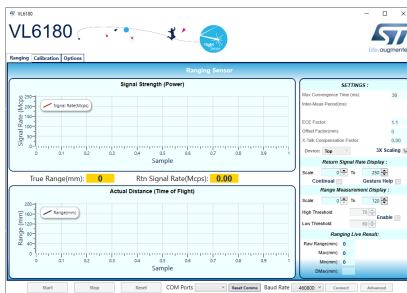


P-NUCLEO-6180A1 pack PC graphical user interface (GUI)



Features

- PC screen display for
 - Proximity ranging distance
 - Signal strength
- Calibration procedure
- Maximum and minimum ranging threshold controls
- Controls up to four VL6180
- Data log output
- I2C transaction recording

Description

The STSW-IMG012 is a personal computer GUI for Windows 7, 8, and 10.

The GUI allows the X-NUCLEO-6180A1 expansion board, and up to three VL6180-SATEL breakout boards connected to it, to be controlled through the STM32 NUCLEO board.

It can be used with the P-NUCLEO-6180A1 pack based on the STM32F401RE.

The VL6180 is a proximity sensor based on ST's patented FlightSense technology. This is a ground-breaking technology allowing absolute distance to be measured independent of 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 VL6180 precisely measures the time the light takes to travel to the nearest object and reflect back to the sensor (Time-of-Flight).

Revision history

Table 1. Document revision history

Date	Version	Changes
10-Mar-2020	1	Initial release

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