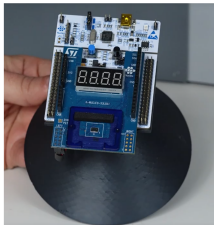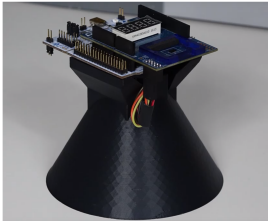# Building a reflectometer using VL53L0X Time-of-Flight ranging sensor

Features

- Software binary code example
- STP files for 3D printing of the apparatus
- Wiring diagram
- Based on P-NUCLEO-53L0A1 development tool
- All components can be easily ordered from distributors

Description

This reflectometer application example can be used to approximate the reflectance of various materials (e.g. clothes, paint, objects, walls etc.).

To calibrate the VL53L0X sensor, a target of known reflectance is required (calibrated paper is available on the market).

The plastic enclosure is used to remove any ambient light.

For any more information, you can refer to the video "Building a Reflectometer Using an ST Time-of-Flight VL53L0X" available on st.com.

DB4186 - Rev 1 - March 2020
For further information contact your local STMicroelectronics sales office.

www.st.com

Revision history

Table 1. Document revision history

Date	Version	Changes
26-Mar-2020	1	Initial release

IMPORTANT NOTICE – PLEASE READ CAREFULLY