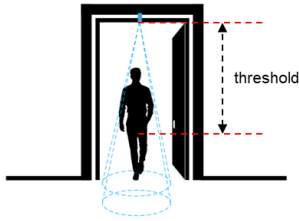


## People counting software code example using the VL53L1X long-distance Time-of-Flight ranging sensor



### Features

- Software (SW) enabling people counting with a single Time-of-Flight (ToF) sensor
- Easy mechanical integration
- Battery-operated device possible
- Ready-to-use application code
- Zip file provided with user manual and algorithm example

### Description

This software enables people counting with the VL53L1X long distance ranging ToF sensor. The method consists of using the multiple zones of the sensor-receiving SPAD array to alternatively get a ranging distance from each zone and consequently recognize the movements of a person crossing the sensor field of view. For example, the number of people occupying a meeting room, accessible from a reasonably narrow access, can be counted by detecting the entrances and exits of the attendees.

The SW is a code example for programming the VL53L1X, using the ultra lite driver (ULD) application programming interface.

The SW comes with a zip file containing a user manual that describes how to use the VL53L1X to count people crossing a certain predefined area. The zip also includes an example of the algorithm.

## Revision history

**Table 1. Document revision history**

Date	Version	Changes
06-Jun-2019	1	Initial release

**IMPORTANT NOTICE – PLEASE READ CAREFULLY**

STMicroelectronics NV and its subsidiaries (“ST”) reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST’s terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers’ products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. For additional information about ST trademarks, please refer to [www.st.com/trademarks](http://www.st.com/trademarks). All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2019 STMicroelectronics – All rights reserved