



Software for STEVAL-VL53L9 with STM32 Nucleo N657X0

Features

- Complete software framework for building applications using the VL53L9CX high-performance lidar direct Time-of-Flight (dToF) sensor on the STEVAL-VL53L9 evaluation board
- Built on top of a capture driver for sensor acquisition and a middleware library for data postprocessing
- Several example applications illustrating the procedure to capture and postprocess the data coming from the sensor through different interfaces
- Free, user-friendly license terms

Description

This software package offers a complete STM32 firmware project. It demonstrates how to operate the VL53L9CX Time-of-Flight (ToF) multizone ranging sensor. This project runs on the STEVAL-VL53L9 evaluation board, and it is compatible with the STM32 Nucleo N657X0 development board.

The system is built on the VL53L9CX core driver and a postprocessing library. It provides ready-to-run example applications. These applications capture and process sensor data. This gives developers a working reference design that helps speed-up VL53L9CX integration into their products.

A ready-to-use STM32CubeIDE project is provided to build, run, and debug the firmware. STM32CubeProgrammer might be required to sign and flash binaries. To understand how to connect STEVAL to the STM32 Nucleo N657X0 development board refer to the user manual of STEVAL-V53L9.

Revision history

Table 1. Document revision history

Date	Version	Changes
27-Jul-2026	1	Initial release

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