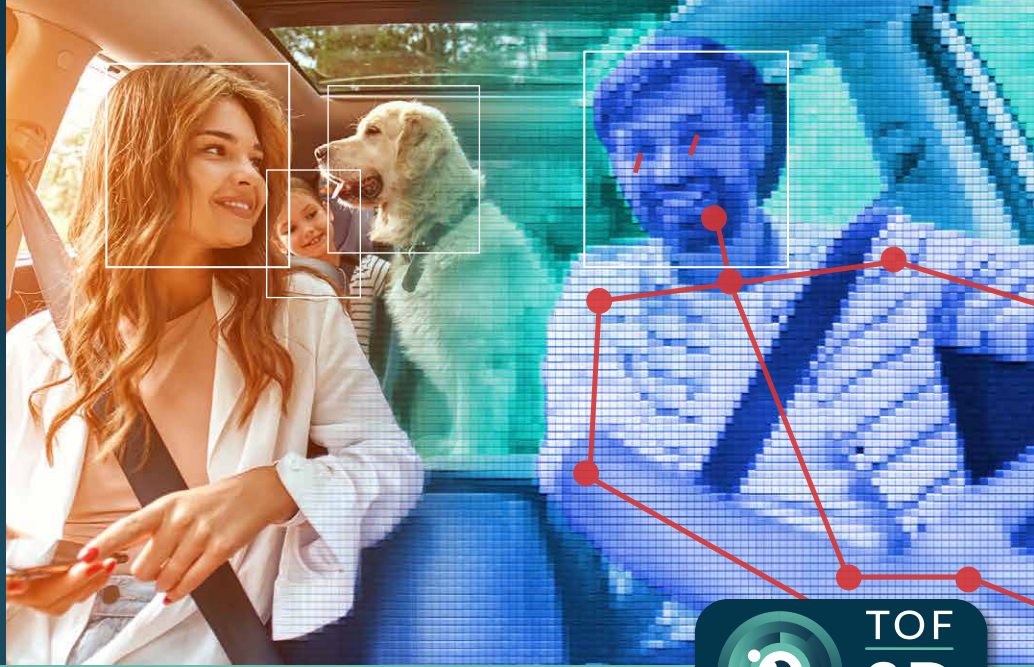# ToF evaluation kit

EVK75027

The EVK75027 is a complete camera evaluation kit for the MLX75027 time-of-flight (ToF) imager. It enables real-time 3D imaging at VGA resolution and connects directly to a PC for visualization, recording, and analysis of image data. The kit allows configuration setting and also to load your own SW.
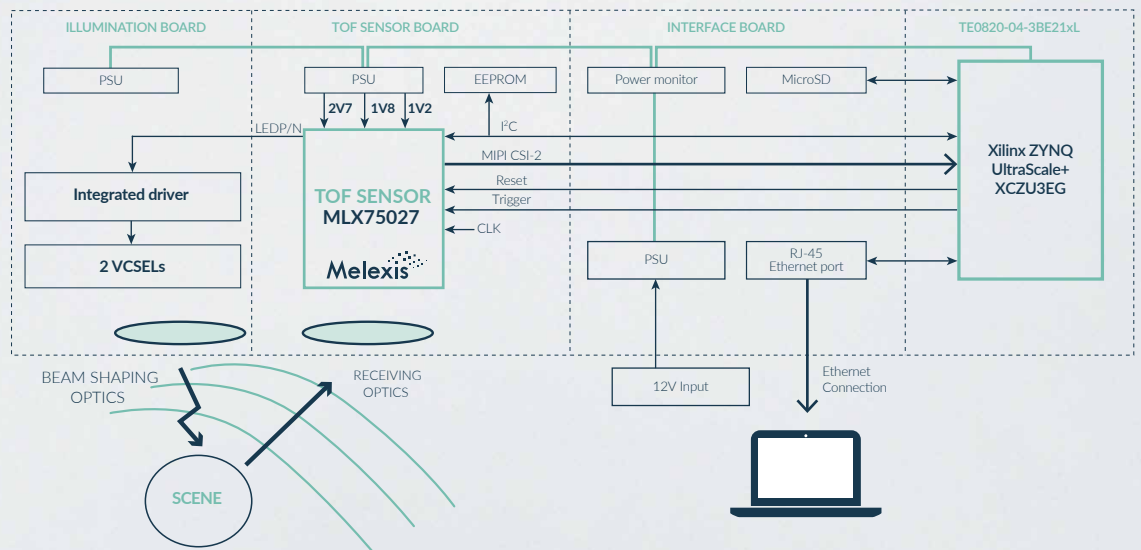

Key features

- MLX75027 VGA Time-of-Flight sensor
- VCSEL illumination (110° HFOV at 940 nm)
- Modular (interchangeable) platform architecture
- HW & SW reference design
- ROS compatible including web GUI
- Distance and confidence data at >100 FPS

- Advanced feature support on demand
  - Range de-aliasing
  - Multi-path error correction
  - High dynamic range (HDR)
  - Non-synchronized cross interference rejection
- Small form factor 50 x 40 x 45 mm

The evaluation kit is available with a 110° horizontal field-of-view, 940 nm automotive qualified VCSEL illumination and driver IC with integrated eye-safety functionality designed in collaboration with Lumentum, Stanley Electric and Sony Semiconductor Solutions.

Block diagram

- Illumination board
- ToF sensor board
- Interface board
- Processor board

Package content

- 1x HW module
- 1x external AC/DC 12V PSU
- 1x ethernet cable
- Web-based visualizer
- C API, Python & Matlab SDK (+ example code)
- Unique registration key (for documentation, software, updates & support)

Ordering code

- EVK75027-110-940-2-SLM (new)
- EVK75027-110-940-2

www.melexis.com/
EVK75027