### VGA / QVGA time-of-flight 3D camera

#### MLX75027 / MLX75026

The MLX75027 (VGA) and MLX75026 (QVGA) sensors, featuring a BSI pixel array, provide control signals for illumination units (e.g. VCSELs) and utilize a highspeed interface to stream data to the host processor. These sensors enable the design of highly compact 3D cameras.



### **Key features**

- (320 x 240) 1/2" optical VGA (640 x 480) or 1/4" optical QVGA
- Full resolution readout up to 120FPS VGA / 180 FPS QVGA
- 🚫 CSI-2 serial data output, MIPI D-PHY
- Region of interest (ROI) selection
- ${\bigodot}$  Integrated support for binning (2x2, 4x4, 8x8)

- Horizontal mirror & vertical flip image modes

  Horizontal mirror & vertical flip image modes

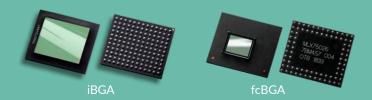
  Per-phase statistics & diagnostics

  Double sided arc (anti-reflective coating)

  940 nm bandpass filter (MLX75076, on-demand for MLX75027)

  Support up to ASIL B system integration

- Ambient operating temperature range
- Packages RoHS compliant



## **Block diagram**

LASER illumination

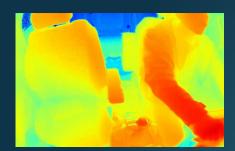


External MCU

# **Evaluation kit**

available

EVK75026& EVK75027 evaluation kits are EVK75027



### **Applications**

- Driver monitoring (DMS)
- In-Cabin monitoring (ICM)
- Car exterior cocooning

- retail, logistics and smart cities



www.melexis.com/ MLX75026



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