

K-LD7-EVAL

K-LD7 evaluation kit



Features

- Easy evaluation of the digital radar sensor K-LD7
- Powerful control panel GUI included
- Real-time streaming and visualisation of all sensor data
- Data recording and playback including video using a webcam
- Saves time to market and reduces NRE costs

Applications

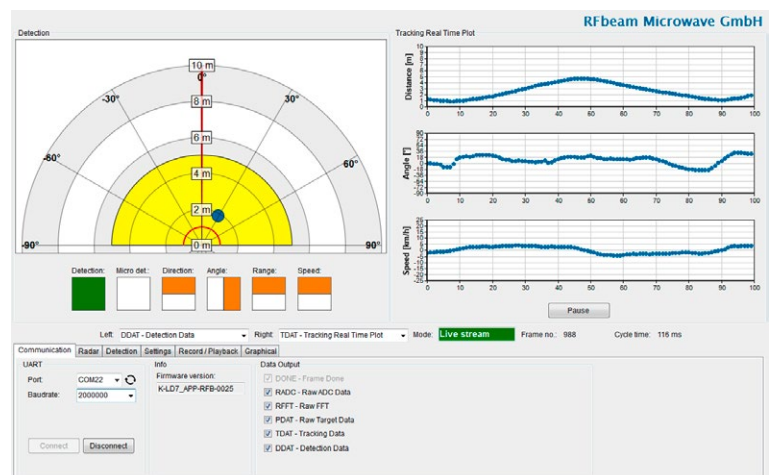
- Getting started with the K-LD7
- Real-time optimisation of the radar parameters for different applications
- Situation recording including video data for later analysis in the lab
- Learning about the potential of a K-LD7 sensor

Description

The K-LD7 evaluation kit is a fully operational distance triggered movement detector. It visualises all four digital outputs of the K-LD7 over LED's and features an easy connection to a PC over a USB to serial cable which is also included in the kit.

With the supplied powerful Control Panel software, development time is reduced drastically. All the sensor parameters can be modified using the Control Panel, without having to look at the command list of the K-LD7. The influence of changed parameters can be directly checked in the real-time views of the software. The control panel features a lot of different views including a histogram to analyse the measured data in detail. Further it is possible to record all measured data and replay it directly in the software to analyse different application scenarios offline without the sensor.

Control Panel



APPLICATION IDEAS



Movement detection

The K-LD7 can be used for a lot of movement detection applications with an excellent interference suppression due to the integrated tracking filter. The ability to measure the distance and angle of the object opens a whole new field of possibilities in the movement detection.

Key Features

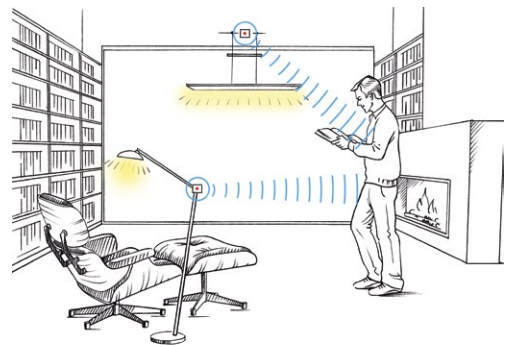
- Limit detections to a specific area
- Differentiate between approaching and receding objects
- Easily differentiate if an object is near or far away
- Filter out cross traffic based on the angle information

Indoor and Outdoor Lighting

With a typical detection distance of 15m for persons and 30m for cars the sensor is perfect for lighting applications. The angle and distance measurement allows simple counting applications.

Key Features

- Detects targets in difficult conditions
- Limit detection to a specific area
- Simple object counting based on the angle information
- Micro detection feature for indoor use

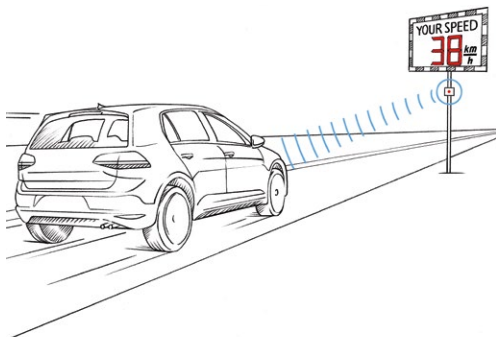


Speed measurement

The K-LD7 can track speed, direction, distance and angle of a target up to 30m. This allows for simple distance triggered speed measurements in a limited area.

Key Features

- Smooth speed information due to internal tracking filter
- Measure speed at specific distance
- Limit detection to a specific area
- Limit detection to a specific direction



Blind spot detection

A simple blind spot detection can be realised based on the distance and angle measurement of the K-LD7.

Key Features

- Detects targets in difficult conditions
- Smooth angle and distance information due to internal tracking filter
- Limit detection to a specific area
- Only detect approaching targets due to direction information

