Training Modules for Mobile 3D Sensor

Connect

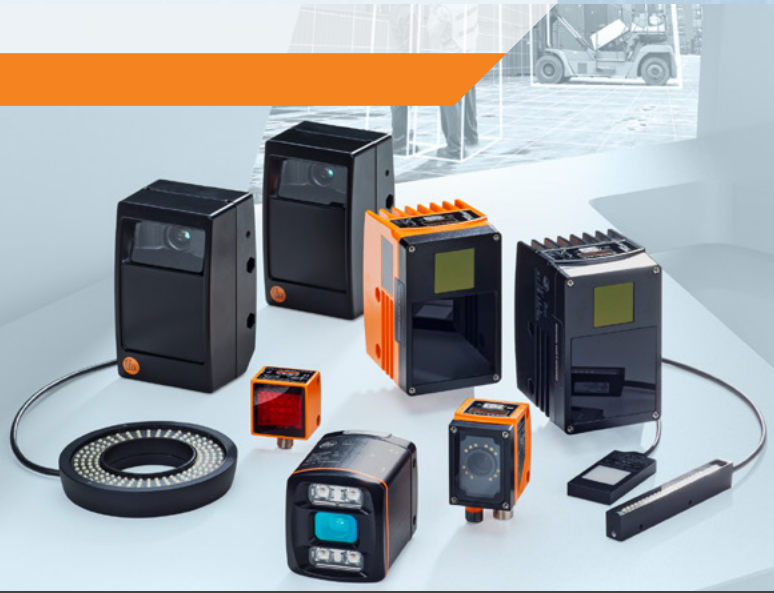
Learn

Solve

Mobilise

A core part of our philosophy at ifm is that we work closely with our customers. We want to understand each customer's business and create solutions that work best for them. We also want our customers to grow. Which is why we are offering a new range of training seminars for our mobile solutions range. As with our solutions, we will customise every training session according to an individual customer's needs and requests. Please see the inside of this booklet for more details of the training modules we have available.

Training Modules



MOBILE 3D SENSOR

CODE	MODULE	DURATION
OMGT01	**Basic Training O3M** (customer application focused)	*1 Day*

Introduction to ifm vision System
- Motivation
- Application discussion

Hardware components
- Sensors, illumination unit, cables
- Wiring concept
- Mounting accessories

Software configuration
- Calibration
- Filters Setup
- Inclusion & Exclusion Zones setup
- Region of Interests setup
- Video feed overlays

Firmware
- Distance image
- Object detection
- Line guidance

Additional device functions
- Creating application specific FCR
- Standby / Wake Up commands

Communication & Data Interpretation
- CAN & Ethernet IP data mapping
- CodeSys libraries for data interpretation
- Programming logic (Ethernet & CAN PLC)
- Practical exercise (customer application focused)

Basic PLC Programming and basic knowledge of CAN bus

CODE	MODULE	DURATION
OMGT02	**Advanced Training O3M** (core software and hardware training)	*1.5 Days*

Introduction to vision theory
- Time Of Flight theory
- Coordinate system

Hardware Installation
- Sensor, Illumination unit and cables connection
- Programming cable and adapter
- Mounting accessories
- Distance of separation between modules
- Obstruction distance requirement

Software Installation
- Download procedure & Installation

Software Operation
- Navigation
- Status
- Monitoring window
- Device application setup
- Bus settings
- Coordinate system calibration
- Live image display

Filters
- Live image display
- Signal quality
- Noise reduction
- Reflector threshold value
- Unwanted particle detection

Distance Image
- Application
- Selection of result
- Region of interest
- Output value setup

Distance Object
- Application
- Detection – Standard & Reflector
- Collision avoidance application variant

Line Guidance
- Navigation
- Area search
- Edge detection
- Filters

Programming
- KVASER CAN and EthernetIP data interpretation
- CodeSys programming
- Practical Exercises (Ethernet/CAN PLC)

PLC Programming and basic knowledge of CAN bus

Meet the experts

Interested in training?

We'd love to discuss training options with you! We will customise a training session or series of training sessions to suit your needs.

Phone us on 1300 365 088

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