

IRMA – InfraRed Most Accurate

ΕN

IRMA MATRIX

With IRMA MATRIX, the iris-GmbH presents a new, revolutionary solution for automatic passenger counting.

To develop the IRMA MATRIX system, the IRMA 3D sensor's innovative detection principle has been advanced further. The IRMA MATRIX system is based on a matrix of 500 pixels with which the sensor measures the distance to the object and captures it three-dimensionally. This is made possible by the Time-Of-Flight (TOF) technology, which calculates the distance to the object by measuring the light travel time.

This system also facilitates reliable counting under adverse environmental influences such as extraneous light, humidity, or dirt. It makes it possible to determine the presence, stature and movement of people and objects within the field of vision with very high accuracy.

This allows for a highly precise count with a defined absolute accuracy. The resulting high stop accuracy of IRMA MATRIX meets the strictest standards for passenger counting, facilitating new real time applications in public transport.

The installation is easier, as all functions are integrated within the sensor. The number of system components has been significantly reduced, facilitating the IRMA MATRIX sensor to be connected to the Ethernet or CAN without any further system components.

The 3DIS (3D Image Streaming) technology transmits the sensor images in real time while recording the data, thereby allowing a subsequent evaluation of the counting accuracy without the need for any personnel for manual counting. The easy installation and simple configuration make it an easy system to use fast and cost-effectively.

- 500-pixel infrared sensor matrix with 3D Time-Of-Flight (TOF) technology
- Integrated processor (DSP) for signal processing and counting
- Detection and evaluation of passenger's statures (Object Analyzer)

FEATURES

- Simultaneous detection of the direction of motion for boarding and alighting passengers (regardless of door height or crowds)
- Support of system interfaces CAN and Ethernet
- System interface adapter available for IBIS, RS232, RS485.2 or J1708 to be used in existing telematics systems
- Easy installation in vehicles without any adjustment work
- No door contact necessary: counting begins via telegram from the OBC
- Just one sensor per door required (standard vehicle doors only)





www.irisgmbh.de