

3D camera measures distances up to 35 m

Ifm (Germany) has developed a 3D camera to assist vehicle drivers in detecting objects. The first prototype was shown at the Conexpo in Las Vegas.

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The camera uses the time-of-flight sensing principle with Photonic Mixer Device (PHD) technology (Photo: IFM)

THE 3D CAMERA PROVIDES CAN (CANopen and J1939) and Ethernet connectivity. It is suitable for mobile machines and can identify size, distance, relative trajectory and relative speed of up to 20 objects. The field of view is 70° x 25° for distances of up to 35 m. The product captures point cloud data that can be used with algorithms to develop applications for mobile machines. The provider initiated already a new CANopen profile for this kind of devices.

The product can be mounted in front or at the rear of the vehicle. An integrated 64 x 16 pixel array - in which each pixel represents a time-of-flight measurement - projects 1024 reference points. Additionally, it defines the field of view for the camera. The IP67- or IP69K-rated device operates in the temperature range from -40 °C to + 85 °C. It is optionally accompanied by an LED lighting module.