TOREO - P650

ToF + Stereo + Embedded AI

BECOM
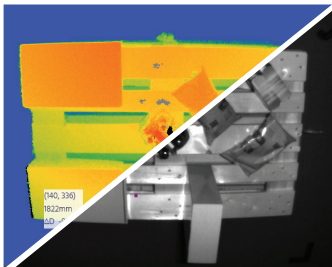it's possible.

The TOREO - P650 is a depth sensor for use in applications where either Stereo or ToF is not enough. The housing with its protective class IP 67 covers the hardware from dust and water and facilitates the installation outdoor and in tough environments.

The smart depth sensor IC delivers depth information and grey value image data for each pixel. Two RGB sensor modules deliver a color data stream. The data is collected by a NVIDIA Tegra TX2 processing module, which calculates stereoscopic 3D data from the RGB modules.

The actual coverage is up to 5 m indoor and up to 3 m outdoor with a field view of 60°. A 3D data stream is provided by a 1 GBit Ethernet interface.

Depth Data

Grey Value

Color Data

APPLICATIONS

- Bin Picking
- Agriculture
- Freight Measurement
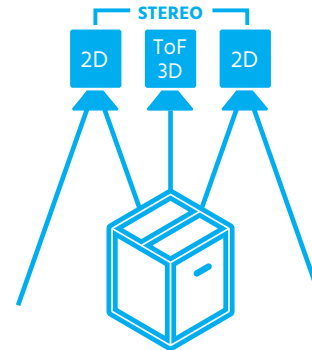- Livestock
- HMI for Industrial Robots
- Range Measurements

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Making the Most
out of two Worlds

Into the Future
with Sensor Fusion

SPECIFICATIONS

Dimensions	230 x 148 x 106 mm
Temperature	-40 to 60 °C
Application Range	up to 5 m*
FoV	60°
Resolution 3D	640 x 480 px ToF
Resolution 2D	2 x 13 Mpx RGB Sensors
FPS	up to 30 fps*
Illumination	850 nm
Protection Class	IP67

*depending on scenario

OPERATING SYSTEMS

Linux, Windows

FRAMEWORKS

Halcon*, Data Spree (Deep Learning DS, Inference DS)

INTERFACES

Gbit/s-Ethernet (eight pole X-coded M12)
Trigger In, Reset
2 Outputs, Power (twelve pole M12)

*to be announced

SCOPE OF SUPPLY

CAMERA
PON: 150-3086-1
TOREO - P650

ACCESSORIES
TOREO - P650 Mounting Kit
ETH Cable
Power Supply
Power + IO Cable
SW / Support Online Link

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