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BASLER VISARD STEREO CAMERA

2200000972
Stereo Camera 160 Colour



- Plug & Play
- Industrial Grade
- Modular Software
- Colour & Mono options
- Cost Effective

PRODUCT DESCRIPTION

The Basler Stereo Camera is a high-performance 3D imaging solution designed for depth perception and spatial analysis in industrial and robotics applications. It features two precisely aligned global shutter cameras with high-resolution CMOS sensors, capable of capturing synchronised stereo image pairs for accurate depth mapping. The camera supports USB 3.0 or GigE interfaces for fast data transfer and is equipped with onboard processing to generate disparity maps and 3D point clouds in real time. With a typical baseline range from 65 mm to 160 mm, it can be adapted to various working distances and scene complexities, offering depth accuracy down to sub-millimeter levels depending on configuration and environment.
In practical use, the Basler Stereo Camera excels in applications such as bin picking, object recognition, navigation, and quality inspection. In logistics and warehousing, it enables robots to perceive and interact with objects in cluttered or dynamic environments. In industrial automation, it enhances tasks such as volume measurement, part positioning, and 3D inspection with reliable depth data. Its compact form factor and rugged design allow easy integration into robotic arms, mobile platforms, and production lines, making it a versatile tool for enhancing spatial awareness and decision-making in smart systems.

TECHNICAL DATA

API configuration	.Net, C/C++, Python, Rest API, UDP based ego-motion interface, Web GUI, Halcon, OpenCV, Point Cloud Library (PCL), ROS
Approvals	CE, RoHS, EAC, GenICam, GigE Vision, KC
Baseline	160 mm
Colour	Color
Connector camera side	8-pin A-coded M12 socket for GigE Power Connector, 8-pin A-coded M12 plug for GPIO and power
Focal length	4 mm
Height	84 mm
Input voltage	18-30 V
Interface	GigE
IP class	IP54
Length	230 mm
Mono/color	Color
Operating temperature	0 °C - 50 °C

Processor	Nvidia Tegra K1
Shutter type	Global
Type	3D Camera
User interface	GigE
Weight	850 g
Width	75 mm
Working Range	0.5 m - 3 m