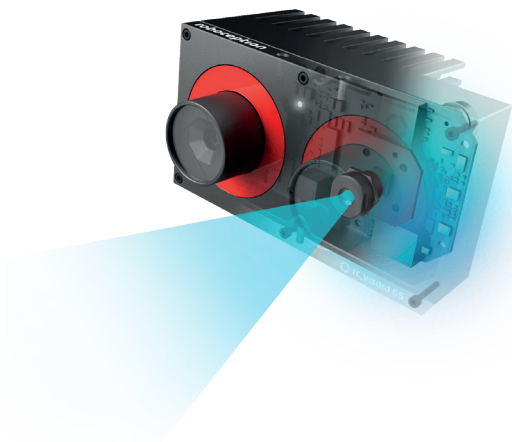


3D Stereo Sensor

The rc_visard sensor family enables robots to generate and process time and location-related data in real time. The sensors support a variety of robot applications, ranging from bin-picking to navigation.

With its onboard processing capabilities it can be integrated directly into applications obviating the need for external computers.



- Enabling robots to sense and process data in real-time
- Works in natural and artificial light
- Precise ego-motion estimations (VINS)
- Noise-reduced depth image using advanced smoothing
- Full camera stereo resolution – 1.2 MPx with 0.8 Hz



reddot award 2019
winner



GEN*i*CAM **GiGE**[®]
VISION

Specifications

Image Resolution	1280 x 960 Pixel	1.2 Mpixel
Baseline	rc_visard 65: rc_visard 160:	65 mm 160 mm
Field of View	horizontal 61°, vertical 48° [6 mm lens variant: h 43°/ v 33°]	
Depth Range	rc_visard 65: rc_visard 160:	0.2–1 m 0.5-3 m
Depth Resolution	rc_visard 65: rc_visard 160:	0.04-0.9 mm 0.1-3.3 mm [6 mm lens variant: 0.06-2,2 mm]
Depth Image Resolution & FPS	1280x960 (F) @ 0,8 Hz 640x480 (H) @ 3Hz 320x240 (M) @ 15 Hz 214x160 (L) @ 25 Hz	
Ego-Motion	200 Hz, low latency	
Computing Unit	Nvidia Tegra K1	
Interfaces	WebGUI, Rest-API, GenICam, GigEVision 2.0, UDP based ego-motion interface	
Connectors	8-pin A-coded M12 socket for GigE 8-pin A-coded M12 plug for GPIO, power	
Dimensions (LxWxH)	rc_visard 65: rc_visard 160:	135 x 75 x 96 mm 230 x 75 x 84 mm
Weight	rc_visard 65: rc_visard 160:	680 g 850 g
Power Supply	18-30 V	
Temperature Range	0-50°C, passive cooling	
Protection Class	IP54	

Roboception GmbHwww.roboreception.com

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