

## Smart 3D camera for robot applications - rc\_visard

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- **Quick implementation and easy to use**  
thanks to user-friendly web-based user interface
- **High application flexibility**  
thanks to optional software modules and GigE Vision interface
- **Low system costs and high system reliability**  
with on-board processing and application-specific software modules
- **Increased productivity**  
thanks to smart software modules

With an integrated processor and application-specific software modules on the camera, the rc\_visard provides independently operating 3D machine vision and can therefore also be used very easily as a 3D stereo sensor. Processed 3D information such as pick points are forwarded from the rc\_visard directly to the robot application.

It is configured via a user-friendly web-based user interface. The connection to a PC for further processing of the data is also possible. Via the GigE Vision interface individual 3D applications can be created based on the camera data.

The camera models measure up to 1.2 million 3D data points and achieve frame rates of up to 25 Hz depending on the resolution. Various robot interfaces are already integrated for communication between

robot and camera.

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- Models
- Features
- Working area
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- Dimensional drawing
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Model <sup>1</sup>	Base distance	Focal length	Image resolution	Field of view	Depth of the measurement range <sup>2</sup>
BVS 3D-RV0-0012VG/C-1	65 mm	4 mm	1280 x 960 pixels (1.2 MPixels)	Horizontal: 61° Vertical: 48°	0.2 m - 1.0 m
0012VG/C-2	160 mm	4 mm	1280 x 960 pixels (1.2 MPixels)	Horizontal: 61° Vertical: 48°	0.5 m - 3.0 m
0012VG-3	160 mm	6 mm	1280 x 960 pixels (1.2 MPixels)	Horizontal: 43° Vertical: 33°	0.5 m - 3.0 m

<sup>1</sup> G = Gray, C = Color

<sup>2</sup> rc\_visard can measure into infinite space. However, with the stereo method the accuracy is reduced as a square of the distance; hence we recommend the above measurement ranges.

## General rc\_visard data

- Gigabit Ethernet interface (1000 Mbit/s with 100 Mbit/s compatibility)