

## Smart 3D camera family rc\_visard

# EASY AND FLEXIBLE USE OF 3D MACHINE VISION

### Smart 3D camera family with integrated processor and user-friendly user interface for stationary and mobile robot applications.

Low system costs, quick implementation, and a high degree of flexibility in use; this is what the rc\_visard product family of smart 3D cameras promises. 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.

### Special features

- **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





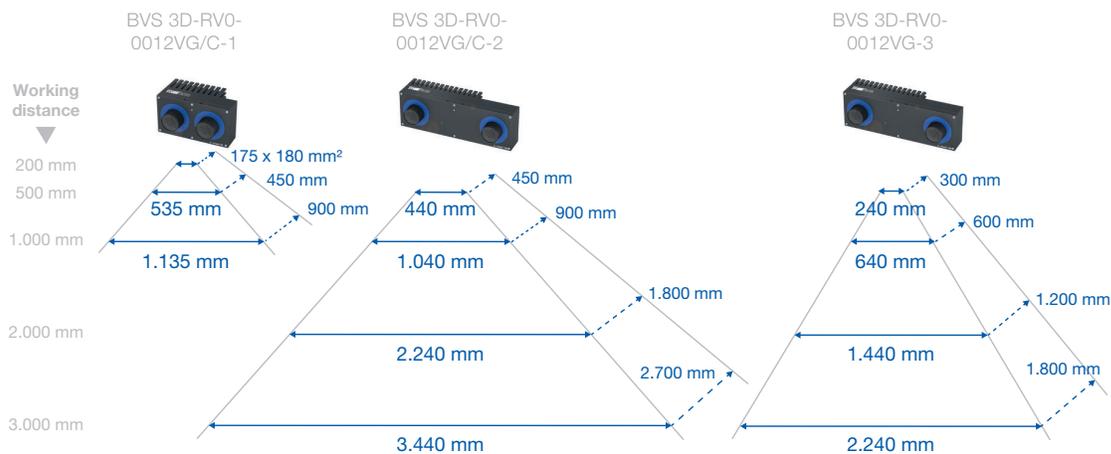
## SMART 3D CAMERA FAMILY rc\_visard

Model <sup>1</sup> BVS 3D-RV0-	Base distance	Focal length	Image resolution	Field of view	Depth of the measurement range <sup>2</sup>
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

1 G = Gray, C = Color

2 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.

## WORKING RANGE



## ACCESSORIES

### Cable

- Gigabit Ethernet, M12 connector, 8-pin on RJ45, different lengths
- Connection cable, M12 connector, 8-pin on open cable end, different lengths

### rc\_randomdot pattern projector

- Specially adapted for particularly difficult scenes with low texture
- Projects a randomly structured pattern
- Can be installed above the scene or directly at the 3D camera
- 24 V, visible light

MATRIX VISION GmbH · Talstrasse 16 · 71570 Oppenweiler · Tel. +49-7191-94 32-0 · Fax +49-7191-94 32-288 · info@matrix-vision.com  
Errors and omissions excepted. Date 06/2021 EN

**We Change Your Vision.**  
[www.matrix-vision.com](http://www.matrix-vision.com)