High performance industrial camera system with SmartVision controller

INDUSTRIAL CAMERAS PROVIDE HIGH RESOLUTION, FAST IMAGE PROCESSING

Industrial image processing is indispensable for modern, flexible manufacturing. It ensures product quality and enables efficient manufacturing processes. Balluff BVS vision solutions provide a variety of powerful capabilities for visual quality control, identification, error proofing, traceability, and image processing to meet your individual specifications.

Balluff's GigE and USB3 industrial cameras, when used in conjunction with our SmartVision controller, guarantee tack-sharp images and high quality inspection results. They provide flexibility and ease of operation, while extending your facility's vision capabilities in terms of resolution, speed, interfaces, and flexibility. The industrial cameras can be used in standalone applications with the BVS Cockpit software or with any third-party vision software using the Gen<i>Cam programming standard.
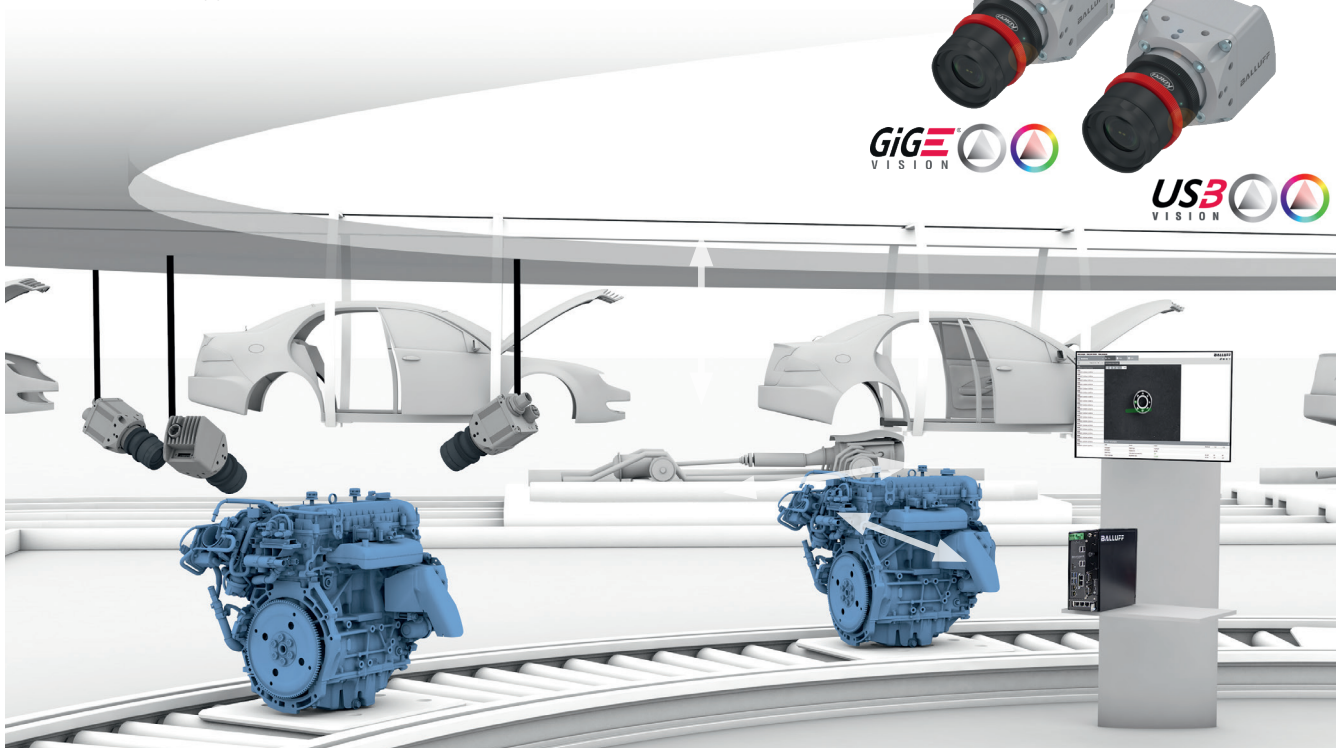
The industrial cameras are available in color or monochrome, with four image resolution options available. You can connect up to 4 cameras, which could include a mix of USB3 and GigE, to a controller at the same time. This allows you to carry out multiple inspections simultaneously, and their compact form factor makes installation possible even in tight spaces. One inspection can be carried out from different angles of view at the same time. This not only increases the quality of the inspection, but is also economical, since you can check for different aspects and process the results simultaneously using the controller.

Camera Features

- Available in GigE and USB3
- GigE's industrialized M12 connector more robust than common RJ45 connectors

Controller Features

- Standardized industrial network interfaces, such as Ethernet IP, Profinet, TCP/UDP
- Flexible for applications with single or multiple cameras
- Fast data processing based on the user-friendly BVS Cockpit interface

INDUSTRIAL CAMERA

	GiGE VISION	USB3 VISION
Monochrome, 1.6 MP	BVS002H	BVS002T
Color, 1.6 MP	BVS002J	BVS002U
Monochrome, 3.2 MP	BVS002K	BVS002W
Color, 3.2 MP	BVS002L	BVS002Y
Monochrome, 5.1 MP	BVS002M	BVS002Z
Color, 5.1 MP	BVS002N	BVS0030
Monochrome, 12.4 MP	BVS002P	BVS0031
Color, 12.4 MP	BVS002R	BVS0032
Dimension	68.7 × 40 × 40 mm	37.7 × 40 × 40 mm
Sensor chip	CMOS	CMOS
Lens	C-Mount	C-Mount
Data interface	GigE-Vision	USB3-Vision
Digital interface	4 inputs, 4 outputs	2 inputs, 4 outputs
Operating temperature	0...+45 °C	0...+45 °C
Housing material	Coated aluminum	Coated aluminum
Weight	157 g	94 g

Not included: Lens, connection cable and other accessories, see www.balluff.com

SMARTVISION CONTROLLER

	BAE0103
Description	SmartVision Controller
Dimension	192 × 229 × 88 mm
Power supply	15...24 V
Operating system	Linux, BVS-Cockpit
Processor	i7 – 6700TE
RAM	16 GB DDR4
Hard drive	256 GB SSD
Interfaces	2 × LAN 4 × GIGE-LAN 4 × USB3 4 × USB2 2 × Profinet
Application software	BVS-Cockpit with HALCON license
Operating temperature	+10...+50 °C
Housing material	Sheet steel, coated
Weight	2700 g

Power supply and mounting system included in scope of delivery

SERVICES

Service – You can rely on our support over the entire life cycle of our products and solutions: Including the design and planning of your projects, testing and setup on site, and training and support. For more information, visit us online at
www.balluff.com/en/de/contact/