Smart camera applications made easy

The smart camera with toolbox technology for intuitive application development without image processing knowledge
Configuring inspections visually & intuitively – mvBlueGEMINI

With the twin concept consisting of smart camera and software, the industrial image processing becomes faster and more productive. MATRIX VISION enables beginners, professional users, and system integrators to realize applications in an highly efficient way. This modern technology connects hardware and software you’ve never seen before and is both innovative and easy to use.

Out of the box and immediately available for use – desire and reality merge.

The smart camera with teach function makes it possible to solve applications without programming. Because it covers all basic functions those with more industrial imaging expertise can concentrate on more detailed aspects of specifications. Thanks to the open system, user-defined tools can be developed and parameterized as required.

Connect the camera and get going.
The browser-based software has a user-friendly menu navigation. Applications can be developed in a very intuitive way.

An application consists of individual tools like “Get image”, “Find object”, etc. which are based on the image processing library HALCON.

All available tools are grouped in the toolbox, from which the user can select those suitable to solve various tasks. Furthermore, tasks can be trained with the software choosing the right algorithms and setting the matching parameters. Image processing know-how is, consequently, not an absolute requirement.

In 3 steps to the application
- Step 1: Get image
- Step 2: Select and set tools
- Step 3: Define analysis result

Simply configure it via your browser and get going. The mvBlueGEMINI – the ultimate camera for beginners and professionals alike.

mvBlueGEMINI@work

- Quality assurance: The new mvBlueGEMINI makes production checks with ease. Just select tool, teach objects and it’s done.
- Measuring: Just a few intuitive program steps to the final result. The mvBlueGEMINI can be operated from a mobile device via a browser. So you can overlook and control everything regardless of your viewpoint.
- Sorting and counting: Color, size, form – via the teach function, you can show the image processing system which criteria are important to you.
- Identification: The ideally matched hardware and software makes the mvBlueGEMINI camera system an ideal partner for quickly setting up the reading processes of OCR, 1D and 2D codes.
- Pick & place: Applications can be developed purposefully. With the support of wizards, you just have to set the relevant parameters.

The software mvIMPACT Configuration Studio, or simply mvIMPACT-CS, is matched to the mvBlueGEMINI and delivers what it promises. It comes pre-installed on the camera and forms a unity with the hardware. So “plug & work” with mvIMPACT-CS is a reality for beginners, advanced users and for image processing professionals.

get image
- Get Inputs
- Set Outputs
- Receive data
- Send results
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- Filler results
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Web-based software solution
Save time with automatic tool selection and parameterizing
Matching software and hardware
Extendable using customer specific tools
Powered by HALCON
Easy to adapt GUI
Multi-language GUI

Legal notice:
The contents of this brochure are intended to provide information only and to show possible examples. We reserve the right to change technical data and construction at any time without prior notice. The technical specifications of customer systems and of our current products have to be clarified when ordering.
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Ideas and products
Made in Germany
In the industrial image processing area, MATRIX VISION has become an important partner for customers world-wide.

Our strong-points
Aside from our extensive range of standard products we develop custom-specific solutions which provide maximum utility for the user as a result of continuous improvement.