

press release

VisionAI: Smart Deep Learning Camera

If Deep Learning models are to be used in the industry, they require appropriate hardware with interfaces suitable for industry. Above all, embedded solutions are needed that can be adapted quickly and without great effort to the task at hand.

With the freely programmable, AI camera VisionAI from Imago Technologies GmbH, image processing applications from the fields of AI, Deep Learning and Machine Learning can be easily implemented. With its integrated Google Edge TPU, the inference system supports the TensorFlow Lite and AutoML Vision Edge frameworks. This makes it ideal for tasks such as pattern recognition, classification, anomaly or defect detection in inspection applications, code reading and many other custom applications.

With SDK and sample programs, users do not have to deal with image acquisition, I/O handling or other basic functions, but can fully concentrate on the development of the actual image processing solution.

Complementing this, VisionAI users also have the flexibility to develop their own image processing applications based on Halcon, C++ or Python, incorporating any libraries or their own source code. The VisionAI's free programmability makes it extremely flexible in selecting the appropriate software and allows complete access to the hardware, giving users full control over the design of their embedded solution.

The VisionAI features a 5MPixel resolution camera, quad-core ARM processor and Google Coral Accelerator, forming an effective combination of high computing power and compact image processing system.

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Vision AI.jpg

The Vision AI smart camera uses an intelligent area scan camera combined with the Google Coral processor.

Image source: IMAGO Technologies

ABOUT IMAGO TECHNOLOGIES

IMAGO Technologies is a leading manufacturer of intelligent cameras, vision sensors, and special computers for automated image processing. IMAGO designs, develops, manufactures, and distributes image processing systems in Friedberg, Germany, for customers worldwide in industrial inspection, pharmaceutical-, engineering industry, and ... soon also for your application? For almost 3 decades, IMAGO has been offering trendsetting solutions with great innovative power serving the individual needs of customers.

The product portfolio includes intelligent line, area, and event-based cameras, deep learning image processing computers as well as embedded multicore ARM, i-Core, and DSP computers, each with real-time IO, Linux, or Windows operating systems and a real-time OS. IMAGO also supports its customers in the areas of engineering and software development. For more information visit www.imago-technologies.com.