

press release

Vision Cam XM2: Smart Camera Unlocks New Frontiers in Edge AI

Friedberg, Germany, February 2024: *IMAGO Technologies, a leading developer of industrial machine vision solutions, today unveiled the Vision Cam XM2, a powerful and compact smart camera powered by the NVIDIA Jetson Orin™ module. This revolutionary embedded vision system delivers unmatched performance and flexibility for edge AI applications and other tasks demanding multi-core ARM and GPU processing power.*

The Vision Cam XM2 represents a paradigm shift in edge AI, empowering businesses to harness the power of complex computations directly on-camera, thanks to the NVIDIA Jetson Orin module. This eliminates the need for additional hardware, translating to efficient, cost-effective execution and seamless integration into existing systems, even in space-constrained environments.

Equipped with a high-resolution sensor, the Vision Cam XM2 captures up to 5 megapixels per image and 165 frames per second at full resolution, making it ideal for high-speed inspection and processing tasks where precision and speed are paramount. Even at VGA resolution, it can capture up to 1,400 frames per second. The camera can also be deployed as a line scan camera.

Beyond its performance, the Vision Cam XM2 boasts exceptional flexibility and programmability. It readily supports AI-based applications, intricate pattern recognition processes, and the combination of numerous operators, making it a versatile tool for developers of image procession systems. Additionally, unlike solutions reliant on short-lived GPUs, the Vision Cam XM2 guarantees long-term availability and integration in line with mechanical engineering standards, positioning it as a future-proof choice for industrial image processing.

The integrated processor, featuring 6x ARM Cortex A78 CPUs, 1024 GPU cores, and 32 Tensor cores, unleashes remarkable processing power, enabling real-time execution of even complex AI algorithms. This opens doors to innovative applications in automation and quality assurance, paving the way for a new era of industrial image processing potential.

IMAGO will be showcasing the capabilities of the Vision Cam XM2 live at Embedded World. For further information visit the website: www.imago-technologies.com.

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Vision Cam XM2.png

The IMAGO Vision Cam XM2 is a powerful and compact smart camera based on the NVIDIA Jetson Orin™ module.

Image source: IMAGO Technologies

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ABOUT IMAGO TECHNOLOGIES

IMAGO Technologies is a leading manufacturer of intelligent, freely programmable cameras and vision sensors as well as special computers for automated image processing. IMAGO develops, manufactures and markets image processing components at the Friedberg site in Germany for worldwide customers in the field of industrial inspection, pharmaceuticals, mechanical engineering and ... soon also your application? For 3 decades, IMAGO has been offering forward-looking solutions with a view to the needs of series product developers with great innovative strength. The product portfolio includes CPU/GPU equipped line scan, area scan and Event-based cameras complemented by Deep Learning image processing computers as well as i-Core Box PC / Panel PC each with Windows or Linux operating system, the latter with real-time optimization. The portfolio is complemented by two solutions that can be used directly in the application: AI-based image processing and predictive maintenance. In the roadmap, current and future new developments are always prepared for AI applications. Already today, customers develop AI solutions completely integrated in the format of a camera up to space and power saving computers with latest embedded CPU/GPUs. In addition, IMAGO supports its customers with engineering and software development services. For more information, please visit www.imago-technologies.com.