# e-con Systems™ launches New High Resolution Global Shutter Camera: Precision Imaging at High Frame Rate

Tags: NVIDIA Jetson Orin | Sony® Pregius S IMX568 Sensor | Global shutter | High resolution | High Sensitivity | Large Pixel size |NIR excellence

California & Chennai (Mar 27, 2024): e-con Systems™, a global leader in embedded vision solutions, introduces a 5MP Global shutter Color camera — e-CAM56_CUOAGX, the latest addition to its esteemed *Sony® Pregius S* camera series for NVIDIA Jetson Orin. e-CAM56_CUOAGX is engineered to capture fast-moving objects at high frame rates with exceptional precision and clarity, leveraging the advanced Sony® Pregius S IMX568 sensor and e-con Systems™ expertise in embedded vision technology.

e-con Systems™, as an NVIDIA Elite partner, provides synchronized multi-camera solutions for NVIDIA Jetson platforms, supporting up to four cameras for seamless integration. This high-performance camera supports an external trigger feature, ensuring precise synchronization for coordinated multi-camera capture. It achieves a maximum frame rate of up to 280 fps, minimizing frame-to-frame distortion and ensuring the accurate capture of fast-moving objects. Furthermore, its multi-ROI capture capability enables the capture of multiple Regions of Interest in a single frame, increasing the camera's frame rate up to 1164 fps.

With decades of experience in ISP fine tuning, e-con has excelled in fine tuning the NVIDIA host ISP, resulting in exceptional image quality. This camera comes equipped with superior NIR performance, ensuring exceptional imaging quality in both low-light conditions and NIR spectrum.
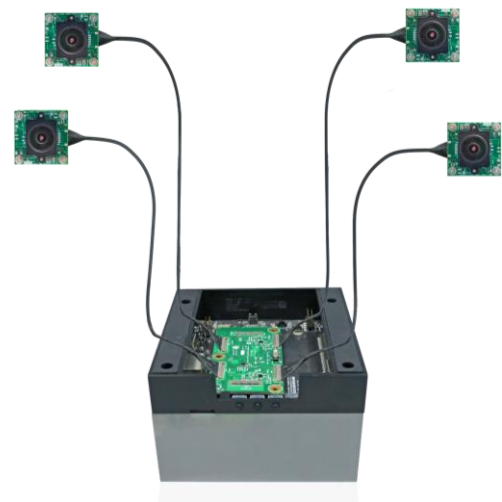
Figure: e-CAM56_CUOAGX Global Shutter Multi-Camera Solution for NVIDIA Jetson Orin

"In a rapidly evolving market where demands for precision imaging at high frame rate are paramount, e-CAM56_CUOAGX emerges as the perfect solution. With its cutting-edge features including Synchronized multi-camera support, multi-ROI capture with high frame rate, 5 MP resolution, global shutter capability, and NIR excellence, this camera sets a new standard for imaging excellence, ensuring that our customers in the embedded vision industry can capture sharp images of objects in motion at high frame rate for various applications like smart traffic, industrial automation, robotic arms, drones and sports broadcasting." said **Suresh Madhu**, **Head of Product Marketing** at e-con Systems.
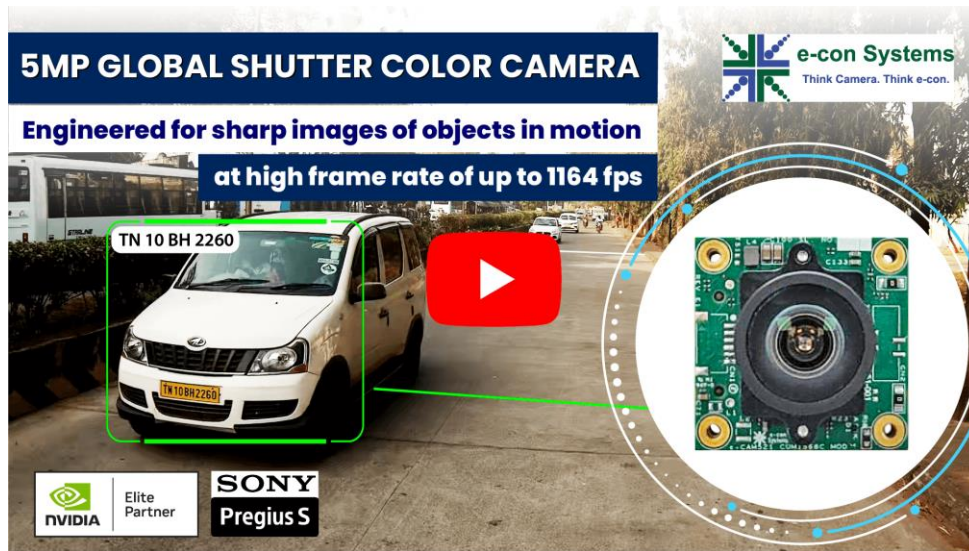
Introduction video: 5MP Global shutter camera

Availability

For evaluating the capabilities of the e-CAM56_CUOAGX, please visit the online web store and purchase the product.

Customization and integration support

e-con Systems, with its deep expertise in and knowledge of various camera interfaces, provides the necessary customization services and end-to-end integration support for e-CAM56_CUOAGX. It ensures that unique application requirements can be easily met.

We specialize in developing cameras based on any SONY® Pregius sensor, offering options with high resolution up to 20MP. If you are looking for any customization or integration support, please write to us at camerasolutions@e-consystems.com.

About e-con Systems™

e-con Systems™ designs, develops, and manufactures OEM cameras. With 20+ years of experience and expertise in embedded vision, it focuses on delivering vision and camera solutions to industries such as retail, medical, industrial, agriculture, smart city, etc. e-con Systems' wide portfolio of products includes Time of Flight cameras, MIPI camera modules, GMSL cameras, USB 3.1 Gen 1 cameras, stereo cameras, GigE cameras, low light cameras, etc. Our cameras are currently embedded in over 350+ customer products. So far, we have shipped over 2 million cameras to the United States, Europe, Japan, South Korea, and many more countries.

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