e-con Systems™ launches 20MP High Resolution Multi-Camera for NVIDIA Jetson Orin; Redefining Imaging Quality

Tags: 20MP | onsemi Hyperlux LP | AR2020 Sensor |5K resolution| NVIDIA Jetson AGX Orin |IP67 | Multi-Camera Support
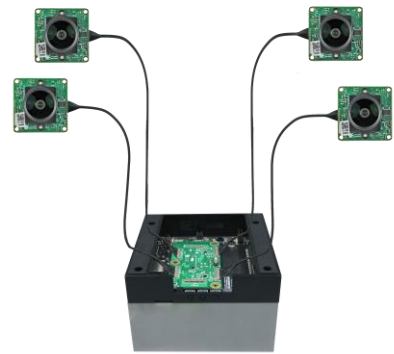
California & Chennai (Jan 18, 2024): e-con Systems™, with over two decades of experience in designing, developing, and manufacturing OEM cameras, has launched e-CAM200_CUOAGX - a 20MP high Resolution 5K MIPI multi-camera based on the AR2020 sensor from onsemi's Hyperlux LP family for NVIDIA Jetson Orin platform. With its remarkable 20MP high resolution and advanced features, this synchronized multi-camera excels in effortlessly capturing every tiny detail, even from a long distance; ensuring reliable and superior imaging quality even in low-light conditions.

e-con Systems' e-CAM200_CUOAGX camera is compatible with NVIDIA Jetson, offering synchronized multi-camera solutions that can support up to four cameras. This high resolution camera achieves a remarkable 30fps at 20MP. With decades of experience in ISP fine tuning, e-con has excelled in fine tuning the NVIDIA host ISP, ensuring exceptional image quality.

Its flexible interface options spanning MIPI, GMSL, and USB (upcoming) ensure seamless integration across diverse applications, consistently delivering optimal performance. It also comes with an optional IP67 enclosure for the GMSL version, making it versatile and durable.

e-CAM200_CUOAGX Multi-camera Solution for NVIDIA Orin

With such comprehensive features, this camera proves to be an ideal solution for various applications, including drones, autonomous sports broadcasting and analytics, skin analyzers, fundus imaging, whole slide imaging, OCR, inventory scanning, and digital twin.

*"e-con Systems has expanded its camera portfolio with an impressive 20MP camera which enhances the capability to capture finer details and deliver exceptional image quality. This 5K camera's high resolution, enhanced low-light capabilities, low power consumption with the 1.4um pixel size, versatile interface compatibility, and exceptional NIR performance make it an ideal solution for various embedded vision applications. It will include game-changing features such as Smart ROI, Wake on Motion, and extended dynamic range (EDR) in near future, further elevating its capabilities. This advancement reinforces our commitment to provide superior multi-camera imaging solutions, ensuring reliability and excellence in every capture for our valued customers.", said **Prabu Kumar, CTO at e-con Systems**.*

Key features of e-CAM200_CUOAGX

- **20MP High Resolution** - Ensures crystal-clear imaging quality, capturing tiny details even from a long distance while maintaining reliability in low-light conditions.

- **Expert ISP Fine-Tuning for Superior Image Quality** - Delivers high-quality image output through a precisely tuned ISP, capturing every detail, enhancing dynamic range, and reducing noise.

- **Multi-Camera Support** – Achieves remarkable 30fps at 20MP, even with multiple cameras connected to your platform.

- **Low-light and NIR Excellence** - Achieves superior image quality, particularly in extremely low-light conditions of <5 lux, while showcasing a remarkable 60% Quantum Efficiency (QE) in the NIR spectrum.

- **Shutter Efficiency Enhancement with GRR** - Reduces the rolling shutter artifacts, delivering smoother and clearer visuals, especially while capturing fast-moving objects.

[20MP AR2020 High Resolution Multi-camera Solution for NVIDIA® Jetson AGX Orin™](#)

Availability

For evaluating the capabilities of the e-CAM200_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-CAM200_CUOAGX. It ensures that unique application requirements can be easily met. 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, low light cameras, etc. Our products 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.

For more information, please contact:

Mr. Harishankkar

VP – Business Development sales@e-consystems.com

e-con Systems™ Inc., +1 408 766 7503

Website: www.e-consystems.com

Note: References to corporate, product or other names may be trademarks or registered trademarks of their respective owners.