



For immediate release

e-con Systems launches 4K 140dB HDR Front View Camera for Mobility

Superior Vision Beyond Limits—Where Safety Meets Precision

California & Chennai (April 28, 2025): e-con Systems®, a global leader in embedded vision solutions, is excited to introduce 4K 140dB HDR Front view Camera—[STURDeCAM88 CUOAGX](#), engineered to deliver superior and reliable long-range imaging for mobility applications such as delivery robots, autonomous vehicles, and off-road vehicles, including agricultural vehicles, mining vehicles, and all-terrain vehicles (ATVs). [STURDeCAM88](#) is based on automotive-grade OmniVision OX08B40 image sensor, and supports synchronized multi-camera setup, enabling the integration of up to 8 cameras with NVIDIA® Jetson™ platforms using the GMSL2 interface.

STURDeCAM88 leverages the OmniVision OX08B40 image sensor, and e-con Systems' industry-leading ISP tuning expertise, to deliver exceptional 4K imaging with impressive 140dB HDR and enhanced LED Flicker Mitigation (LFM)—even in the most challenging lighting conditions. This strategic combination powers ADAS use cases such as Forward Collision Warning, Lane Keeping Assist, Traffic Sign Recognition, Pedestrian Collision Warning and Blind Spot Monitoring, enabling safer and more reliable autonomous and semi-autonomous systems.



Figure 1: [STURDeCAM88 CUOAGX](#) Multi-Camera Solution for NVIDIA Jetson



Figure 2: STURDeCAM88 4K HDR Camera

This IP67-rated camera is compliant with road vehicle standards, including ISO 16750 and more, ensuring durability and resilience in tough environments. In addition, stream health monitoring and recovery feature ensures reliable operation in mobility applications by continuously monitoring the health of sensor, ISP, and GMSL link.

[STURDeCAM88](#) cameras are NDAA-compliant, ensuring secure operations, and a stable supply chain by sourcing critical components from trusted global partners while avoiding reliance on restricted entities. This compliance not only mitigates potential security threats but also guarantees adherence to government and enterprise project standards.

“With the launch of STURDeCAM88, we’re strengthening our STURDeCAM lineup to address the growing need for high-performance, 4K long-range imaging in the mobility sector. Whether you’re building advanced driver-assistance systems or autonomous vehicles, STURDeCAM88 delivers ultra-clear 4K HDR imaging and reliable performance—even in the most demanding conditions. We’re excited to support your journey toward smarter, safer mobility with this complete vision solution.” said Suresh Madhu, Head of Industrial Business Unit at e-con Systems.



PRESS RELEASE
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[Watch how this 4K HDR 140dB camera enables reliable long-range vision for Mobility](#)

Beyond its advanced imaging capabilities, in the upcoming versions, the camera will support versatile interface options including FPD-Link, ensuring compatibility with all major image processing platforms, such as TI and Renesas.

Availability

To evaluate the capabilities of STURDeCAM88_CUOAGX, please visit our [online web store](#) and purchase the product.

Customization and Integration Support

e-con Systems offers customization services and end-to-end integration support for the STURDeCAM88 camera, ensuring that unique application requirements can be easily met. For customization or integration support, please contact 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, mobility, agriculture, smart city, and more. 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, HDR cameras, low light cameras, and more. Our cameras are currently embedded in over 350+ customer products, and we have shipped over 2 million cameras to the United States, Europe, Japan, South Korea, and many other countries.

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