e-con Systems Exhibits Latest Camera Innovation at CES 2025

Launching AI-Powered Wi-Fi Shelf Camera for Smarter Retail Management | Advanced HDR 360° Surround View Demo for ADAS

Join us at Booth #9517 to witness our latest innovation in mobility, robotics, and retail.

California & Chennai (Dec 19, 2024): e-con Systems®, a global leader in embedded vision solutions, exhibits its latest advancements in camera technology across diverse industries at Booth #9517 during CES 2025 Las Vegas, the world's premier tech event. Meet e-con's camera experts at the booth.

Smart Retail: Exclusive Launch of SHELFVista for Real-Time Shelf Monitoring

e-con Systems unveils its latest innovation, the Shelf monitoring AI-Powered Wi-Fi camera – **SHELFVista** for smarter retail management at CES 2025. SHELFVista is a compact, battery-powered Shelf Wi-Fi camera that enables retailers, warehouses, and distribution centers to efficiently manage inventory while significantly maximizing ROI.

Figure 1: SHELFVista – 4K AI-Powered Wi-Fi Camera

Advanced HDR 360° Surround View Demo for ADAS

At CES 2025, e-con Systems will also present its Advanced HDR 360° Surround View Solution, powered by IP69K-rated STURDeCAM34 cameras compatible with NVIDIA Jetson Orin. This innovative demo highlights the capabilities of multiple synchronized STURDeCAM34 cameras, delivering a seamless Bird's Eye View with 360° situational awareness in an ADAS use case featuring a realistic setup.

The cameras' impressive HDR smoothens lighting transitions, enabling precise object detection during challenging scenarios like tunnel exits, night and low-lighting conditions. Through superior LED Flicker Mitigation (LFM), the camera ensures accurate image capture under pulsed light sources like LEDs.

Figure 2: STURDeCAM34 - 140dB HDR Camera

Additionally, the 4K HDR STURDeCAM88 camera is optimized for forward-facing applications such as Traffic Sign Recognition, Pedestrian Detection, and Automatic Number Plate Recognition (ANPR), offering superior imaging in diverse lighting conditions.

Showcasing Excellence in Delivery Robotics

A standout demonstration comes through e-con Systems' partnership with an esteemed customer, showcasing the STURDeCAM21's capabilities in their third-generation delivery robots. This solution delivers superior imaging with HDR, ensuring reliable visuals even in challenging outdoor lighting conditions, while its LED Flicker Mitigation (LFM) eliminates flicker from LEDs. The STURDeCAM21's rugged and reliable design, including an IP67 enclosure, provides excellent protection against water and dust, and its robust build ensures stability under vibrations, shocks, and uneven surfaces.
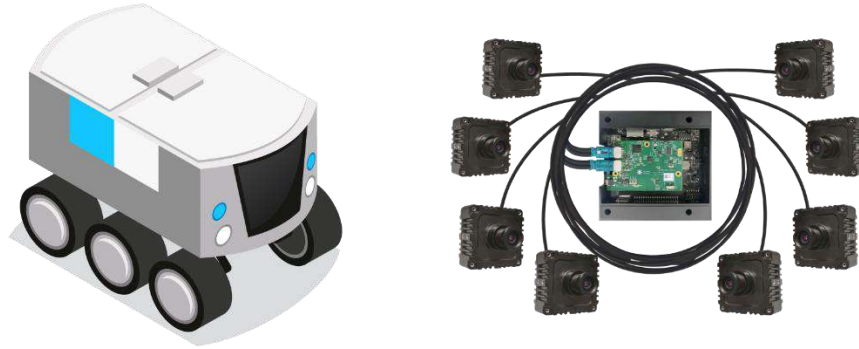
Figure 3: STURDeCAM21 Multi-Camera Solution for Autonomous Delivery Robot

"At CES 2025, we're showcasing our commitment to pushing the boundaries of embedded vision across multiple industries. We're excited to exclusively launch SHELFVista, our breakthrough AI-Powered Wi-Fi shelf monitoring camera, alongside our advanced automotive and robotic vision solutions that demonstrate how intelligent imaging is transforming business operations, enabling smarter, more connected technological environment." said Ranjith Kumar, Retail BU Head at e-con Systems.

Key Highlights at Our Booth

Smart Retail Innovation: Experience SHELFVista, transforming retail shelf management with real-time Shelf monitoring.

ADAS Solutions: Learn about our STURDeCAM34 and STURDeCAM88 cameras, delivering 360° vision with HDR+LFM for enhanced driver assistance.

Robotics in Action: See how STURDeCAM21 powers our customer's advanced autonomous delivery system.

And watch our demo based on Qualcomm vision solution.

Book a meeting slot to discuss your vision solutions with our camera experts.

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, 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.

For more information, please contact:
Mr. Harishankkar
VP – Business Development sales@e-consystems.com
e-con Systems® Inc., +1 408 766 7503
Website: https://www.e-consystems.com/

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