e-con Systems™ launches superior HDR multi-camera solution for NVIDIA Jetson Orin to revolutionize autonomous mobility

Sony® ISX031 | HDR | LFM | GMSL2 | NVIDIA JETSON Orin | IP69K | Automotive

California & Chennai (Sep 27, 2023): e-con Systems™, with over two decades of experience in designing, developing, and manufacturing OEM cameras, has recently launched STURDeCAM31 - a 3MP GMSL2 HDR IP69K camera powered by Sony® ISX031 sensor for NVIDIA® Jetson AGX Orin™. Designed for automotive grade, this small form factor camera has been engineered to make autonomous mobility safer by ensuring reliable and superior imaging quality even in challenging outdoor lighting conditions.

Leveraging Sony ISX031's sub-pixel HDR technology, STURDeCAM31 has been fine tuned to provide impressive HDR performance of up to 120 dB and LFM, thereby providing a solution for capturing dynamic scenes without motion artifact. With the reliable GMSL2 interface, this rugged camera meets IP69K standards, ensuring durability and protection against dust, water, high temperature, high pressure, heavy vibration and shock.

Fig 1: STURDeCAM31 IP69K Camera

e-con Systems' STURDeCAM31 is compatible with NVIDIA® Jetson AGX Orin™ system on modules, offering synchronized multi-camera solutions that can support up to eight cameras through the GMSL2 interface. This powerful combination of STURDeCAM31 and NVIDIA Jetson Orin platform for edge AI and robotics is a game changer in the autonomous mobility industry, especially for ADAS, delivery robots, autonomous agriculture vehicles, etc.

In a rapidly evolving market with surging demand for autonomous mobility in challenging outdoor lighting conditions, whether it be robotics or automotive vehicles, STURDeCAM31 emerges as the perfect fit. Through its superior HDR and LFM capabilities, we are transforming mobility and enhancing global safety. Our IP69K-rated cameras set a new benchmark for reliability, ruggedness, and performance, effortlessly enduring the rigors of high vibrations, shocks, dust, and water environments. In collaboration with NVIDIA, we stand at the forefront of

Fig 2: STURDeCAM31_CUOAGX Multi-Camera Solution

pioneering a safer future through cutting-edge imaging technology." said Gomathi Sankar, *Business Unit Head-Industrial Cameras at e-con Systems.*

Key features of STURDeCAM31:

120 dB HDR - Leveraging sub-pixel HDR technology, it enables HDR performance of up to 120 dB and LFM - eradicating motion artifact and the occurrence of underexposed or overexposed images.

Synchronized Multi-Camera Support - It can connect up to 8 cameras to NVIDIA Jetson AGX Orin platform using GMSL2 interface.

Designed for Automotive Standards - It withstands harsh environmental conditions - protecting against dust, water, high pressure, high temperature, vibration and shock.

Stream Health Monitor - It monitors the health of sensor, micro controller unit (MCU), GMSL link for resilient camera streaming.

Introducing STURDeCAM31

Availability

If you are interested in evaluating STURDeCAM31, 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 STURDeCAM31. 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. With a team of 450+ extremely skilled core engineers, 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.

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