



e-con Systems® Launches ONVIF-Compliant 4K HDR GigE Camera for Smart Vision Applications

Reliable Vision Meets Low-Light Excellence

Tags: 4K HDR | GigE | Industrial grade | PoE camera | Ethernet camera | Sony STARVIS | IMX678 | ONVIF | IP67 | PTP synchronization | Outdoor | High quality Camera | low-light | Cybersecurity |

California & Chennai (July 9, 2025): e-con Systems®, a global leader in embedded vision solutions, is excited to introduce the ONVIF-compliant 4K HDR GigE Camera - [RouteCAM CU86](#) - built with the Sony STARVIS 2 IMX678 sensor and engineered to provide exceptional image clarity and reliability even in the most challenging lighting environments. This IP67-rated camera is designed for smart surveillance, intersection monitoring, sports and gaming analytics, and dental lighting systems, offering efficient H.264/H.265 compression for bandwidth-efficient 4K streaming over standard PoE networks.

RouteCAM_CU86 integrates the Sony® STARVIS™ 2 IMX678 sensor with e-con Systems' proven ISP tuning expertise to deliver high-quality 4K video with up to 110dB HDR and remarkable sensitivity down to 0.1 lux. This enables clear visibility in both low-light and high-contrast scenarios such as shadowed parking lot basements, glaring intersection headlights, or brightly lit surgical environments.



Figure 1: RouteCAM_CU86 4K HDR GigE Camera

This camera is ONVIF-compliant, ensuring plug-and-play compatibility with a broad range of NVRs and VMS platforms for faster deployment and reduced integration costs.

"RouteCAM_CU86 marks our first 4K camera in the RouteCAM GigE series and is built to address imaging challenges in diverse environments. From capturing clear faces in dimly lit industrial spaces and monitoring intersections during difficult lighting conditions, to delivering consistent video quality for outdoor sports and precise details under dental surgical lights, this camera is built for versatility. By leveraging our expert ISP tuning alongside Sony's advanced sensor technology, [RouteCAM CU86](#) consistently delivers reliable 4K HDR clarity and low-light performance, all within a rugged, secure and easily integrated solution for next-generation vision systems." said **Suresh Madhu**, Head of Industrial Business Unit at e-con Systems.

Additional Highlights of RouteCAM_CU86

- **PTP Synchronization:** Enables sub-microsecond time synchronization across multiple Ethernet cameras, critical for precision monitoring and analytics.
- **Secure Management with Built-in Cybersecurity:** Manages devices through CloVis Central™, a secure cloud platform featuring OAuth2 and JWT-based authentication, TLS 1.2 encryption, private subnets, API gateways, and secure software updates, ensuring end-to-end cybersecurity.
- **Digital Pan/Tilt/Zoom:** Allows repositioning and scaling within the 4K frame without mechanical lens movement.



- **Rugged Industrial-grade design:** Built to withstand harsh industrial and outdoor environments, compliant with ISO 16750 and ISO 20653:2013 standards.



[4K HDR GigE Camera with ONVIF Compliance](#)

Availability

To evaluate the capabilities of RouteCAM_CU86, 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 [RouteCAM CU86 IP67](#) 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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