RZ Ecosystem Partner Solution

e-con Ultra-Low Light Multi-Camera Solution

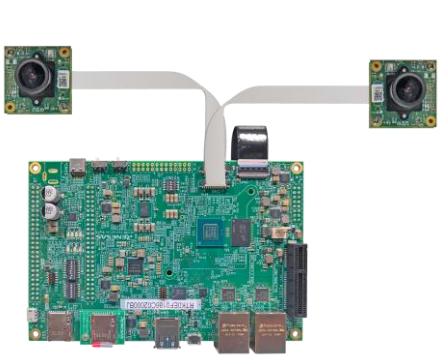
Solution Summary

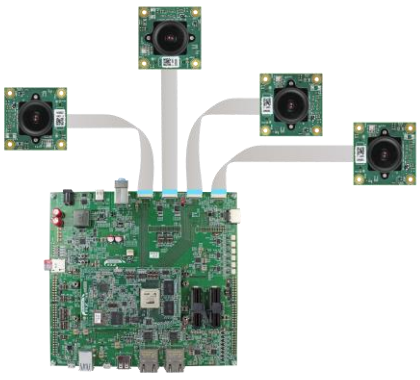
e-CAM22_CURZH and e-CAM22 CURG3E are a full HD ultra-low light multi-camera solution with @60fps for the Renesas RZ/V2H, RZ/V2N and RZ/G3E development kits. The camera is based on SONY STARVIS IMX462 CMOS image sensor. Its high sensitivity allows it to capture images in extremely low lighting conditions such as 0 lux, making it suitable for night vision applications and medical microscopes.

Features/Benefits

- Multi-camera support for RZ/V2H (upto 4 cameras), RZ/V2N (upto 2 cameras), and single-camera support for RZ/G3E
- Fixed focus provides stable, low-latency, and cost-effective imaging
- Onboard High-performance ISP reduces the load on the external CPU while delivering high-quality images.

Diagrams/Graphics





Target Markets and Applications

- Autonomous mobile robots (AMR)
- Smart city
- Smart home
- Surround view system
- Smart agriculture
- Industrial robotics arms
- People counting
- Industrial HMI
- Medical HMI
- Smart retail

www.e-consystems.com/renesas-cameras

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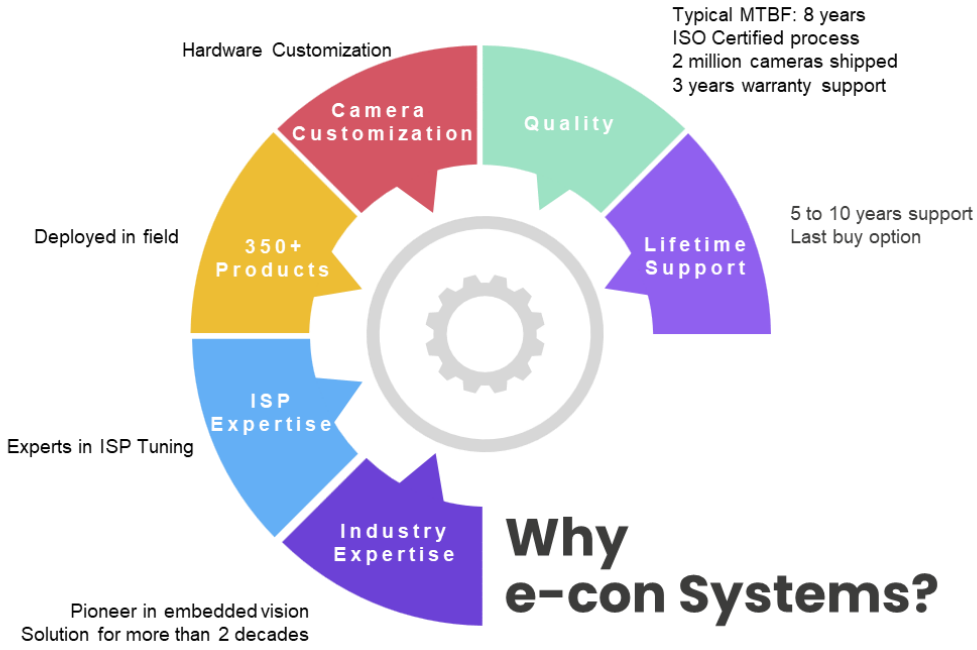
e-con Systems™
Think Camera. Think e-con.

Comparison Table RZ/V2H/RZV2N & RZ/G3E

Feature	e-CAM25_CURZH, e-CAM25_CURG3E	e-CAM22_CURZH, e-CAM22_CURG3E
Sensor	**AR0234 (onsemi)**	**IMX462 (Sony STARVIS)**
Shutter Type	Global Shutter	Rolling Shutter
Resolution	1920 × 1200 (2.3 MP)	1920 × 1080 (2 MP)
Pixel Size	3.0 µm × 3.0 µm	~2.9 µm × 2.9 µm
Frame Rate (Full Res)	60 FPS	60 FPS
Low-Light/NIR Performance	Good, but not exceptional	Superior low-light & NIR sensitivity
Fast Motion captures	Superior Fast motion capture	Good, but not exceptional



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