Allied Vision Launches Alecs: The Open Smart Camera for Next-Generation Vision Applications

Combining the Alvium camera platform with a NVIDIA® Jetson Orin™ SoM and Euresys Open eVision libraries to enable customized AI vision

Stadtroda, Germany, November 18, 2025 – Allied Vision is launching **Alecs**, an *Open Smart Camera* that redefines flexibility and performance for Machine Vision applications. By merging Allied Vision's proven **Alvium camera platform** with the **NVIDIA® Jetson Orin™ NX 16GB System on Module (SoM)**, Alecs offers developers and system integrators a powerful, customizable hardware foundation for deploying AI-based image processing and computer vision applications directly on the camera.

Unlike traditional "closed" smart cameras with fixed functionality, Alecs is designed as an *open* platform. With its Linux-based Board Support Package (BSP), integrated recovery mode, and compatibility with **Euresys' Open eVision** libraries, users can freely develop and run their own software, transforming Alecs into a tailored solution for object detection, tracking, classification, or other advanced machine learning tasks.

Beyond Components: A Platform for Vision Innovation
Alecs provides a complete on-board environment for rapid development and deployment of computer vision solutions. The system's **industrial-grade IP67 housing** ensures reliable operation even in demanding environments, while its **on-board image optimization** guarantees superior image quality. The integrated **Vimba X-based Board Support Package (BSP)** enables safe camera states and simplifies software integration.

Developers benefit from:

- **Fast time-to-market** through accelerated design-in processes

- **Reliability** built on Allied Vision's future-proof Alvium platform and NVIDIA's leading AI module

- **Flexibility** in software customization and sensor integration

- **Industrial robustness** for long-term operation in harsh conditions

"Alecs gives application engineers the vision platform, empowering them to develop their individual solutions, tailored to their specific needs and applications, capable to run AI algorithms," said Vincent Krull, Product Manager, responsible for the Alecs product line at Allied Vision. "We believe Alecs will significantly enhance the way industries incorporate imaging and AI technologies into their workflows, and we're excited to see the innovative solutions our customers will create with it."

Alecs comes preinstalled with **Open eVision Image Analysis Libraries**, available for a free 30-day trial, giving users immediate access to advanced image processing tools.

Available Models and Specifications

Camera Model	Sensor Model	Resolution	Frame Rate	Optical Format	Shutter Mode
Alecs LXB-G1-510m/c	Sony IMX548	5 MP (2464 × 2064)	81 fps	1/1.8	Global
Alecs LXB-G1-1242m/c	Sony IMX545	12 MP (4128 × 3008)	40 fps	1/1.1	Global

About Allied Vision

For over 30 years, Allied Vision has been a leading provider of industrial and scientific camera solutions. The company designs and manufactures camera systems for applications ranging from industrial inspection and medical imaging to autonomous vehicles and embedded vision. By obtaining a deep understanding of customers' needs, Allied Vision finds individual solutions for every application, a practice which has made Allied Vision one of the leading camera manufacturers worldwide in the machine vision market. With a focus on quality, innovation, and reliability, Allied Vision empowers developers worldwide to harness the power of imaging to improve the way we see the world.

The company has locations in Germany, Canada, the United States, Singapore and China and is represented by a network of sales partners in over 30 countries.

Allied Vision is a TKH Vision brand.

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