



**Open eVision**  
Image Analysis Software Tools



**NVIDIA**

NVIDIA® Jetson Orin™ inside

// AIECS – ALLIED VISION EMBEDDED CAMERA SOLUTION

The all-in-one machine  
vision solution

# The Power of Possibility

With Alecs, Allied Vision moves beyond providing just components to offering integrated solution platforms. Unlike conventional "closed" smart cameras that come with pre-installed software for specific applications, Alecs represents Allied Vision's entry into the open smart camera market - a powerful hardware platform with a comprehensive Board-Support-Package (BSP) that you can customize with your own software. Alecs provides the advanced hardware and Linux-based foundation, giving you complete freedom to develop and deploy your own applications. You transform Alecs into a tailored "Closed Smart Camera" once you add your specialized software.

Alecs combines the feature rich Alvim camera platform with the powerful NVIDIA Orin NX System on Module (SoM) and a robust IP67 housing. Compatible with the Open eVision Image analysis libraries from Euresys it has everything to process your image data on Alecs directly. With Alvim camera at its core, Alecs offers a wide range of integrated sensors and a comprehensive feature set for image processing. Whether object detection, tracking, classification, or other complex computer vision tasks, Alecs is the ideal choice for your custom software solution, offering sufficient power to support demanding AI algorithms.

## Specifications

Camera model	Sensor	Mega-pixels	Resolution	Sensor format	Shutter mode	Max. frame rate in fps	Chroma
LXB-G1-510m-VIS-NX16-C-LT4649	Sony IMX548 CMOS	5	2464 × 2064 px	Type 1/1.8	Global	81	Mono
LXB-G1-510c-VIS-NX16-C-LT4649	Sony IMX548 CMOS	5	2464 × 2064 px	Type 1/1.8	Global	81	Color
LXB-G1-1242m-VIS-NX16-C-LT4670	Sony IMX545 CMOS	12	4128 × 3008 px	Type 1/1.1	Global	40	Mono
LXB-G1-1242c-VIS-NX16-C-LT4670	Sony IMX545 CMOS	12	4128 × 3008 px	Type 1/1.1	Global	40	Color

<b>Processor System</b>	NVIDIA Orin NX, 16 GB 128-bit LPDDR5 / 128 GB NVMe
<b>Lighting</b>	Ring light optional, external light optional connected via separate lighting connector
<b>I/O</b>	2 x opto isolated inputs, 2 x opto isolated outputs 1 x RS485 interface, 1 x Trigger-In, 1 x Strobe-Out
<b>LAN</b>	1 x IEEE 802.3 1000BASE-T
<b>Power supply</b>	24 V DC ±10%, typical 20 W (no lighting connected)
<b>Dimensions LxWxH in mm</b>	49.3 × 72 × 111.75 (main housing without lens cover)
<b>Operating temperature</b>	-20 °C to +65 °C (housing)
<b>Type of protection</b>	IP67 (with mounted lens tube and cables connected properly)

### Ready for



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### Available Accessories

- // Lens tubes in two sizes
- // Lenses with focal lengths 6 mm to 35 mm
- // Cables with different lengths
- // Ring light and mounting plate



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