Allied Vision
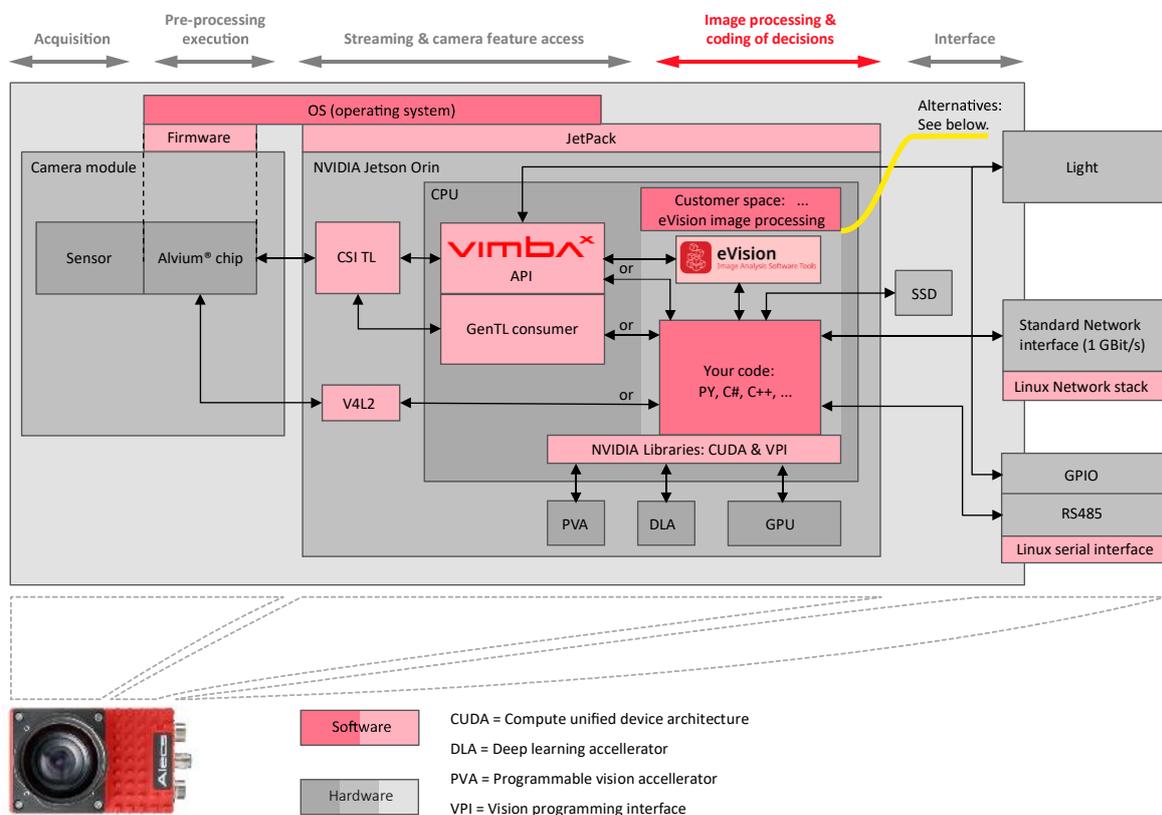
Image Data Flow with Alecs

V1.0.0
2026-Feb-02

This diagram shows the data flow for Alecs smart cameras, from the acquisition to the output of images, with the hardware and software components included.

The highlighted **Customer Space** represents software interaction between the image access, processing unit, storage, and interfaces. Select from 3 options to seamlessly integrate your application with the corresponding workflow!

CUDA = Compute unified device architecture
DLA = Deep learning accellerator
PVA = Programmable vision accellerator
VPI = Vision programming interface

Customer space — Alternative setups:

Open eVision

Image processing by eVision libraries
Decision coding by customers

See above.

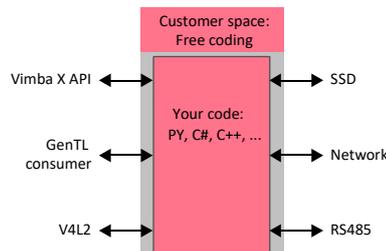https://www.alliedvision.com/en/products/software/evision-libraries

Free coding

Image processing by customers
Decision coding by customers

Machine vision software

Image processing by external software
Decision coding by external software