

## ZEBRA AURORA VISION DEEP LEARNING

Formerly Adaptive Vision Deep learning add-on

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Zebra Aurora Deep Learning Add-On

# Zebra Aurora™ Deep Learning

- Artificial intelligence for machine vision
- Easy to use and set-up
- Great for defect detection
- Small training set requirement

### PRODUCT DESCRIPTION

The **Aurora Vision Deep Learning Add-On** is a powerful extension designed to elevate machine vision applications by integrating advanced AI-driven capabilities into **Aurora Vision Studio**. This add-on enables users to tackle complex image analysis tasks with ease, offering robust performance in real-time environments without the need for extensive programming knowledge.

At its core, the Aurora Vision Deep Learning Add-On is built to handle a wide range of industrial applications, making it ideal for sectors such as **manufacturing, logistics, quality control, automotive, and pharmaceuticals**. Its intuitive, visual interface allows engineers and developers to create sophisticated vision solutions by simply configuring parameters within Aurora Vision Studio's user-friendly environment.

### Key Features:

- 1. Object Classification:**  
Accurately identify and categorize objects within images, even in challenging conditions like varying lighting, orientations, or partial occlusions. This is essential for sorting systems, automated inspections, and product recognition tasks.
- 2. Anomaly Detection:**  
Detect defects, inconsistencies, or irregularities in products without explicitly programming defect types. This feature is particularly effective for **quality assurance**, allowing the system to learn from good samples and flag deviations automatically.
- 3. Feature Detection:**  
Locate specific features or patterns within an image, such as barcodes, logos, or surface markings. This aids in tasks like verifying product authenticity, alignment checks, or feature presence validation.
- 4. Instance Segmentation:**  
Go beyond simple object detection by identifying and segmenting individual objects within a group, even when they overlap. This is critical for applications like **assembly verification**, counting objects, or measuring precise object boundaries.
- 5. Point Location:**  
Identify precise points of interest within complex images, such as screw positions on an electronic board or critical alignment points in assembly lines, enhancing accuracy in robotic guidance systems.