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ZEBRA AURORA VISION DEEP LEARNING

Formerly Adaptive Vision Deep learning add-on

DL-02650-01
Deep Learning Add-On – Technical Support Ext.

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.