NI Vision Development Module (VDM)

The Vision Development Module helps you develop software for machine vision and image processing applications. You can use it with the LabVIEW and LabVIEW NXG graphical programming environment, C, C++, and C# for Windows systems and LabVIEW for real-time systems. Choose from hundreds of image processing algorithms including filters, morphologies, pattern matching, and classification. The module includes IP for targeting both processors and FPGAs and features model importers for performing inference using deep learning models developed in TensorFlow.

You can use the Vision Development Module to take an open and adaptable approach to machine vision software development. You can choose the right hardware for your application and configure cameras, acquire images, and analyze inspection results to build fully customized machine vision systems.

- The Vision Development Module helps you use the power of graphical programming to meet a variety of development and deployment challenges in machine vision applications.
- Develop product inspections and metrologies with quick camera and hardware integration and configurable algorithm engineering tools.
- Deploy Deep Learning Models to Machine Vision Systems. Solve difficult machine vision challenges by deploying deep learning models.
- Perform High-Speed Image Processing on FPGAs. Achieve high production throughput and deterministic control with the FPGA image processing IP included in the Vision Development Module.

The Vision Development Module helps you use the power of graphical programming to meet a variety of development and deployment challenges in machine vision applications.

Vision Development Module provides hundreds of functions for developing and deploying machine vision applications. You can use the Vision Development Module to configure cameras, customize image analysis, and generate results for production and validation tests.

Vision Development Module Versions

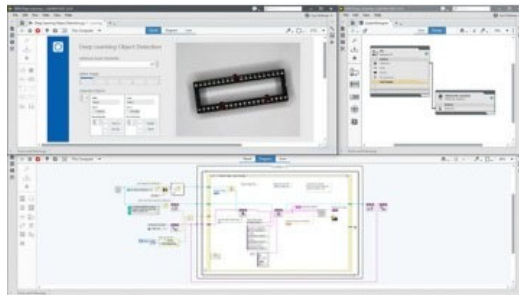**Vision Development Module Development License**
Develop Machine Vision Software in LabVIEW, LabVIEW NXG, C, C++, and C#.

Vision Development Module Run-Time Engine
Deploy executables that use Vision Development Module.

Vision Development Module Debug Deployment License
Debug executables that use Vision Development Module

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