



What Is Vision Builder for Automated Inspection?

You can use Vision Builder for Automated Inspection (AI) to configure cameras, customize image analysis, and generate inspection results all without programming.

Explore Vision Builder AI

Vision Builder AI is application software that helps you rapidly develop and deploy machine vision inspection systems. Using menu-driven development tools, you can configure cameras, customize image processing from hundreds of algorithms and inspection steps, interface with automation hardware, and generate inspection results.

Vision Builder AI Overview

You can use the menu-driven development tools in Vision Builder AI to connect and configure your camera, configure the image processing and analysis you need, and benchmark your inspection to ensure it meets your test requirements.

What Can You Do with Vision Builder for Automated Inspection?

Vision Builder AI provides a menu-driven workflow to help you build automated production and device validation systems. Explore the project below that most closely aligns to your application to learn more.

Inspect and Measure Products

Program production inspection and metrology faster with configurable algorithm engineering tools and intuitive camera and hardware integration.

Extend Systems With Automation Hardware and Application-Specific IP

Easily integrate your vision system with other automation hardware or image processing IP using the configurable hardware menus.

Software Benefits

Standard Service Program

Every purchase includes a renewable, one-year membership to the Standard Service Program (SSP) for software, which offers the following:

- Live phone and email technical support from local, degreed engineers
- Automatic version updates to Vision Builder AI
- 24x7 access to selected online training and virtual demonstrations
- Access to historical versions in case you need to share code with your team

Building a More Complex System?

The Vision Development Module is a LabVIEW add-on that helps you integrate machine vision into larger applications, incorporate deep learning models, and leverage FPGA image processing. This add-on includes tools to configure cameras, customize image analysis, and generate results for production and validation tests.

Which Vision Builder AI License Is Right for My Project?

	Vision Builder AI Development License	Vision Builder AI Run-Time License
Key differentiator	Develop Vision Software from a menu-driven configuration environment	Deploy Vision Inspections to production test and validation systems
Vision Acquisition Software Included	✓	✓

	Vision Builder AI Development License	Vision Builder AI Run-Time License
Standard Service Program		
One year of technical support	✓	-
Ability to upgrade deployed systems to the latest version of the Vision Development Module for free	-	✓
One year of software upgrades	✓	-
Configure Vision Algorithms		
Interactive configuration environment	✓	-
Examples	✓	-
Configuration of inspection interfaces	✓	-
Configuration of image processing and machine vision algorithms	✓	-
Run Vision Software		
Ability to run inspections that include vision functions	✓	✓
Ability to build inspections with Vision Development Module functions	✓	-
Debug Vision Software		
Regression testing tools	✓	-
Breakpoint setting	✓	-
Benchmarking	✓	-
Hardware simulation	✓	-
Image acquisition variation modeling	✓	-
Take Advantage of NI Hardware		
Licenses included with hardware purchases	Smart Cameras, Compact Vision System	Industrial Controllers, Smart Cameras, Compact Vision System

Part Number Table

Description	Part Number
Vision Builder For Automated Inspection	778649-35
Vision Builder for Automated Inspection, Includes Software Standard Service Program, with Media	778649-35WM
NI Vision Builder for AI Run-Time	779799-35