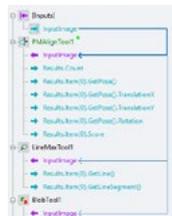
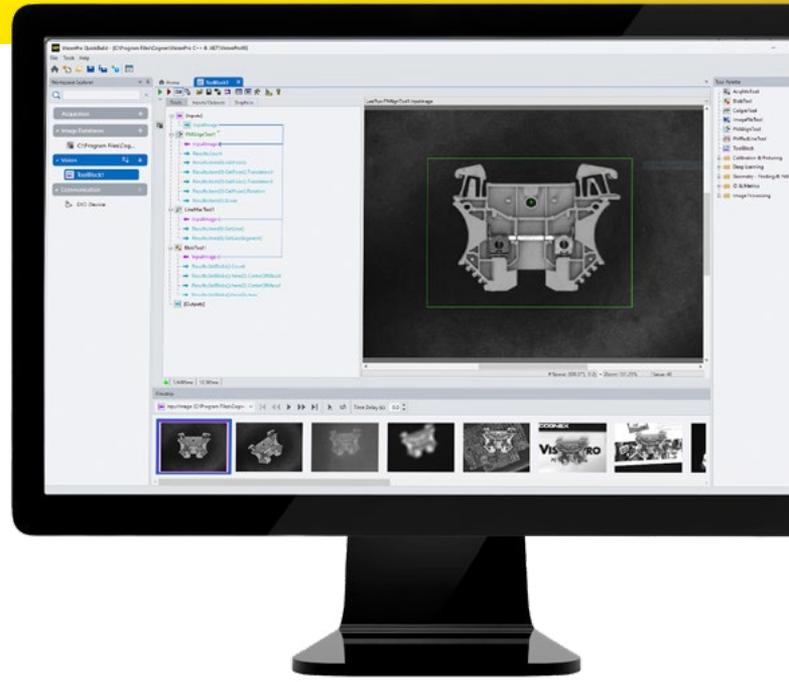


VISIONPRO 10

Solve your most challenging vision applications

VisionPro® 10 is a PC-based software combining best-in-class vision technologies in an easy-to-use development environment. Powerful enough to automate any vision task, VisionPro 10 leverages extensive tool prototyping to enable rapid deployment of highly-customizable applications. With a future-oriented design that includes rule-based and hybrid smart tools, plus deep learning capabilities, this innovative software is ready to support your vision needs for today and tomorrow.



Intuitive development environment and modular tool blocks

Graphical interface with drag-and-drop programming simplifies setup



LEARN MORE
PAGE 2

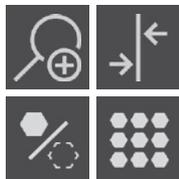


Powerful machine learning technology

Easy to develop, fast to deploy edge learning tools solve complex vision tasks in minutes



LEARN MORE
PAGE 3



Industry-leading vision tools

Comprehensive toolset of rule-based and hybrid smart tools addresses a broad range of applications



LEARN MORE
PAGE 4

Easy integration of Cognex Deep Learning technology

Users can load a trained VisionPro Deep Learning workspace and link it with any VisionPro tool for pre- or post-processing. Integration into a common development environment streamlines application deployment and gives users greater flexibility in building custom solutions.



VisionPro
Deep Learning



Unmatched programming flexibility

.NET programming interface (C# API) and a C++ API deliver high customization and configurability



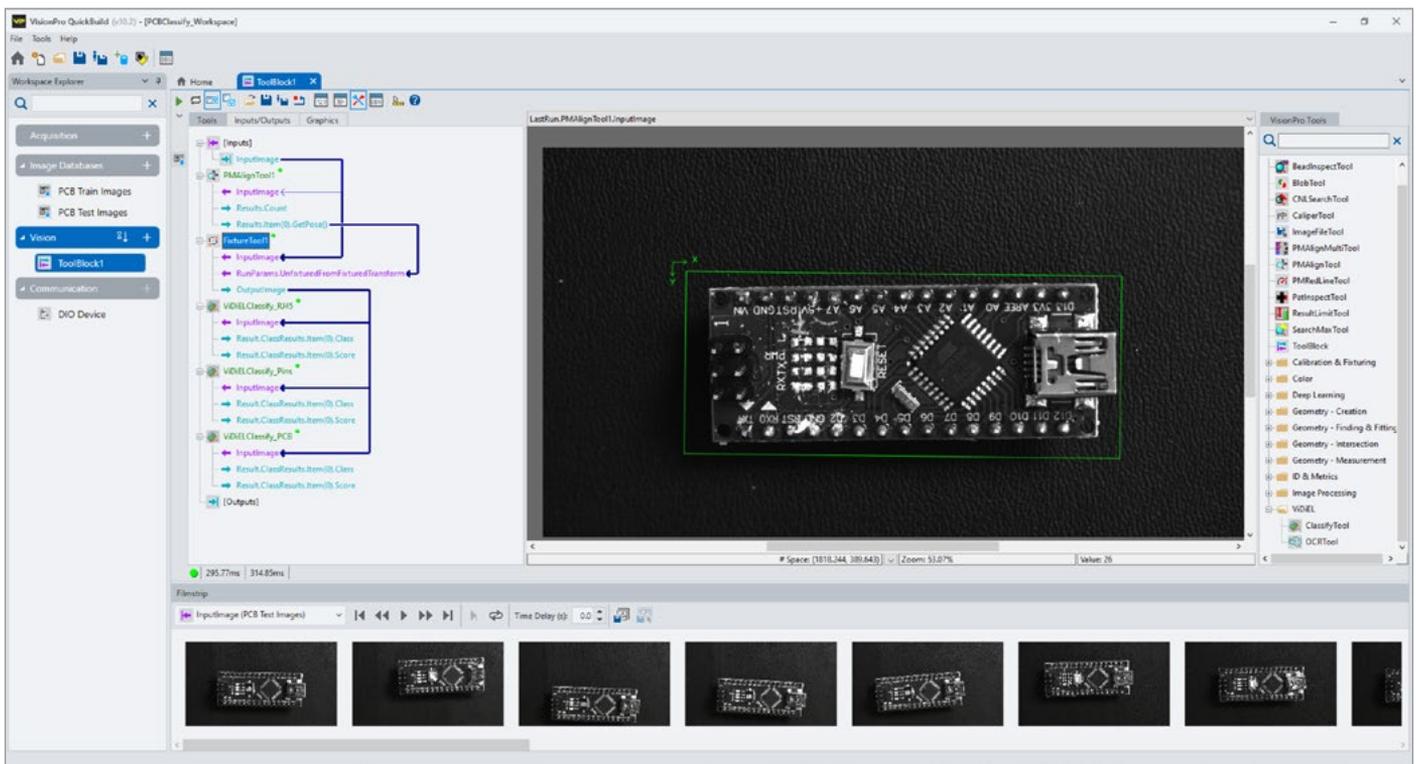
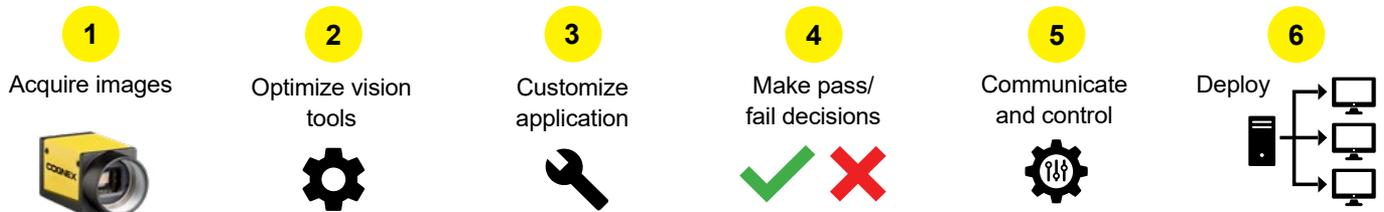
Performance optimization

Robust design accommodates multi-core and multi-threaded processors

QuickBuild environment shortens development time

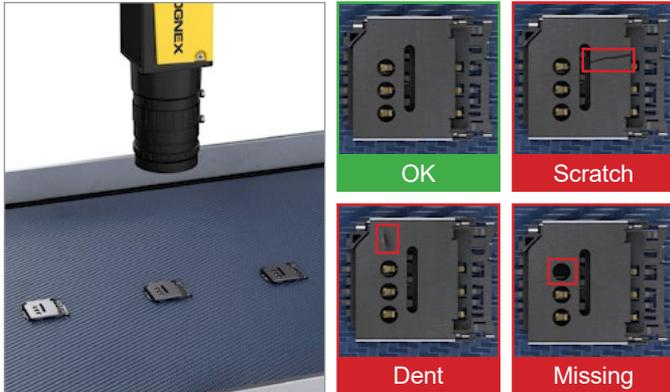
VisionPro 10 makes it simple to automate vision tasks with the QuickBuild™ prototyping environment. Using the intuitive graphical interface and point-and-click training, you can easily configure acquisition, select, and optimize tools, and make pass/fail decisions, with no prior programming experience required. Modular tools blocks enable users to quickly create and reuse components, further supporting fast and flexible deployment. Plus, the ability for scripting addresses more sophisticated vision applications.

QuickBuild workflow



Edge learning tools deliver the power of deep learning without the complexity

VisionPro 10 includes ViDi™ EL tools that offer a simpler and faster method of solving challenging applications. Using a set of pre-trained algorithms, ViDi EL tools make machine learning easier to use than ever, bringing advanced capabilities to users of all skill levels.



ViDi EL Classify

Go beyond the standard pass/fail output with the ViDi EL Classify tool. The tool identifies and sorts parts based on multiple features or characteristics. This enables users to classify defects into different categories and correctly identify parts with variation, allowing you to automate a wider range of tasks.

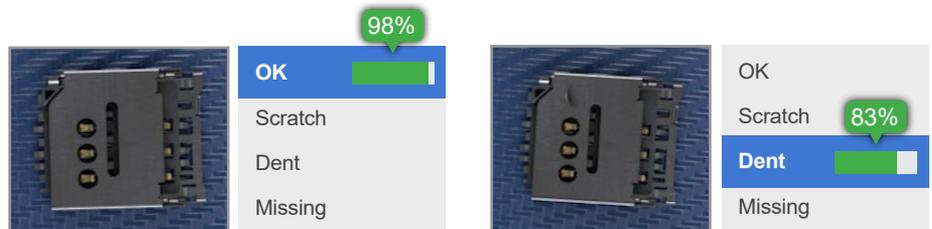
Training

ViDi EL tools are trained in minutes, using as few as five to ten images to deliver accurate results.



Confidence score

Get real-time, visual feedback on the accuracy of your results. The confidence score confirms whether the deep learning model correctly predicted the application output, leading to less manual intervention and more reliable inspections.



ViDi EL OCR

The ViDi EL OCR tool deciphers badly deformed, skewed, and poorly etched characters using optical character recognition (OCR). A pre-configured, omni-font library identifies most text out-of-the-box, without additional programming or font training. This makes for fast, easy implementation with limited development.

Extensive library of tools tackles your toughest vision challenges

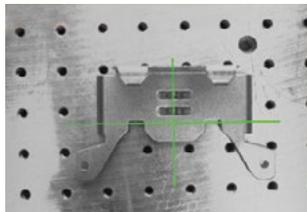
From inspection and verification to robotic guidance applications, VisionPro 10 offers rule-based and hybrid smart tools capable of solving vision applications of ranging complexity. Industry-proven, rule-based tools offer reliable, highly accurate automation, while hybrid smart tools combine the best features of rule-based vision and machine learning to provide solutions for tasks that introduce significant variation.

PatMax

The industry standard for part and feature location.



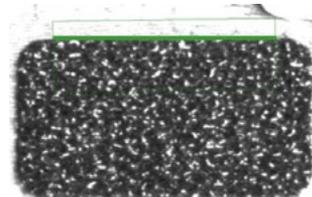
Trained image



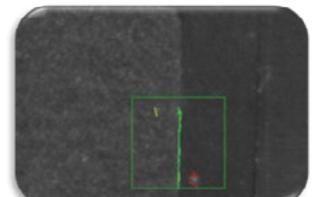
Confusing background

LineMax

Advanced line finding under low contrast and noisy conditions.



Noisy background



Low contrast

Identification and Verification

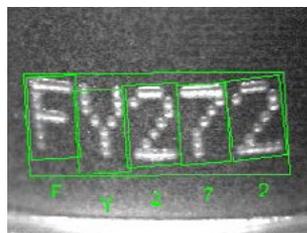
Optimized code reading and character verification.

IDMax®



Degraded DataMatrix codes

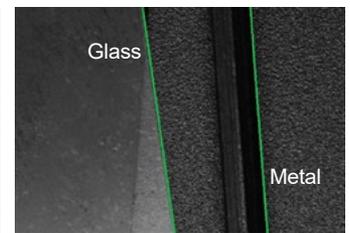
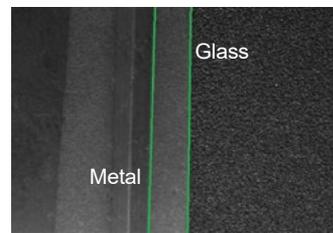
OCVMax



Vertical shift dot-matrix font

Smart Tools

Combining the best features of rule-based vision and machine learning technologies.



SmartLine line detection tool

COGNEX

Companies around the world rely on Cognex vision and barcode reading solutions to optimize quality, drive down costs and control traceability.

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