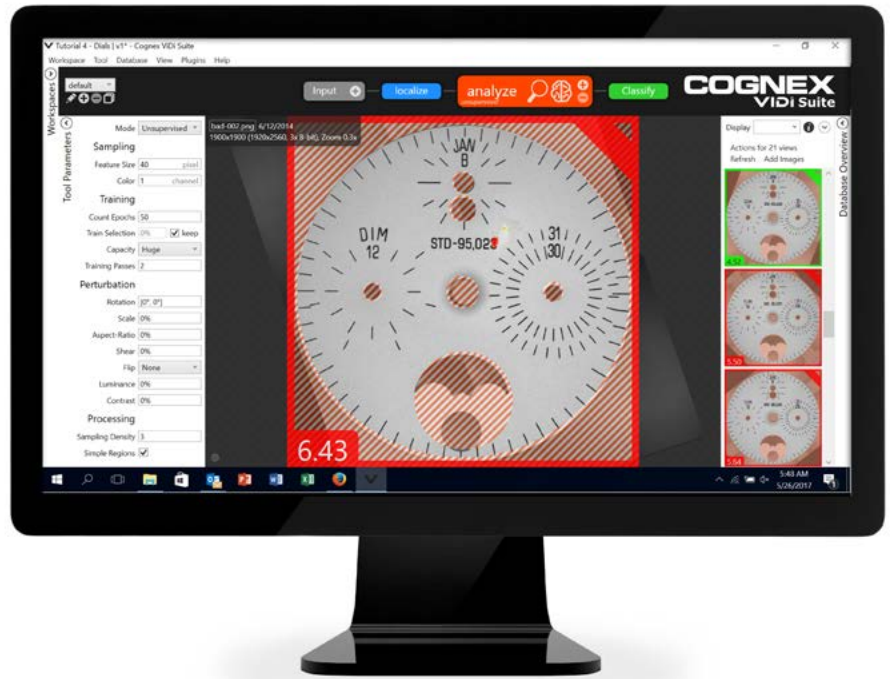


COGNEX ViDi SUITE

Deep Learning-based
industrial image analysis

- Automated detection, inspection and classification
- Human-like
- Self-learning
- Powerful



Cognex offers the first ready-to-use Deep Learning-based software dedicated to industrial image analysis. Cognex ViDi Suite is a field-tested, optimized and reliable software solution based on a state-of-the-art set of algorithms in Machine Learning. It allows tackling otherwise impossible to program inspection & classification challenges. This results in a powerful, flexible and straightforward solution for countless challenging machine vision applications. The Suite consists of 3 different tools:



Feature localization & identification

Cognex ViDi blue is used to find and localize single or multiple features within an image. Be it strongly deformed characters on very noisy backgrounds (OCR) or complex objects in bulk; the blue tool can localize and identify complex features and objects by learning from annotated images.

To train the blue tool, all you need to provide are images where the targeted features are marked.



Segmentation & defect detection

Cognex ViDi red is used to detect anomalies and aesthetic defects. Be it scratches on a decorated surface, incomplete or improper assemblies or even weaving problems in textiles; the red tool can identify all of these and many more problems simply by learning the normal appearance of an object including its significant but tolerable variations. The red tool is also used to segment specific regions such as defects or other areas of interest. Be it a specific foreign material on a medical fabric or the cutting zone on lace; the red tool can identify all of these regions of interest simply by learning the varying appearance of the targeted zone.



Object & scene classification

Cognex ViDi green is used to classify an object or a complete scene. Be it the identification of products based on their packaging, the classification of welding seams or the separation of acceptable or unacceptable defects; the green tool learns to separate different classes based on a collection of labelled images.

To train the green tool, all you need to provide are images assigned to and labelled in accordance with the different classes.

SPECIFICATIONS

Graphical & application programming interfaces		Windows based graphical user interface (GUI) with plugin support C library (Windows DLL) for runtime and/or training Microsoft .NET library (Wrapper for C library and WPF GUI components)
Hardware & OS Requirements	CPU	Intel Core i5 (minimum), Intel Core i7/Xeon (recommended)
	Optional GPU	NVidia Graphic Card (CUDA compatible, compute capability \geq 3.0) For training purposes, a minimum of 3 GB graphic memory is recommended. Note: ViDi Suite performance — in terms of processing time — will depend on hardware selection.
	RAM Memory	4 GB (minimum), 8 GB (recommended)
	USB	1 free USB port (for the license dongle)
	OS	Windows 7 – 64
Supported image file formats		PNG, BMP, TIFF, JPEG
Supported image properties		1–4 channels, 8 or 16 bits

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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