

seeing what matters



## Deep Learning-based industrial image analysis

Automated detection, inspection and classification

Human-like

Self-learning

Powerful



ViDi offers the first ready-to-use Deep Learning-based software dedicated to industrial image analysis. 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

ViDi blue is used to find and localise single or multiple features within an image. Be it strongly deformed characters on very noisy backgrounds or complex objects in bulk; the blue tool can localise 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.



#### Anomaly detection

Anomaly detection  
ViDi red is used to detect qualitative defects of any type. 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.

To train the red tool, all you need to provide are images of good objects.



#### Object & scene classification

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.

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#### Graphical & application programming interfaces

HTML based graphical user interface (GUI) - Required browser: Mozilla Firefox

Microsoft .Net library

Custom HTTP requests

C runtime library

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#### Hardware & OS Requirements

Dedicated PC for ViDi Suite

CPU: Intel core i5/i7/Xeon

NVidia Graphic Card (GeForce GTX770-780Ti-970-980, GTX TITAN, Quadro K5000-K6000, Tesla K20)

8GB Memory

100GB Disk Space

1 USB port (2.0 or above)

OS: Windows 7 - 64

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#### Support & Maintenance

All licenses are permanent and do not require maintenance or renewable fees

ViDi Suite comes with a free 12 months update & remote application engineering support

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#### Miscellaneous

License dongle (USB 2.0 or above) included

Supported languages: EN/FR/DE | ViDi Suite Help: EN

Note: ViDi Suite performance - in term of processing time - will depend upon hardware selection



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