AI-Driven
Visual Inspection System

Easy to use Visual Quality
Inspection with Inspekto
The Fast Track to Automate Visual Inspection

https://www.Siemens.com/inspekto

Note: Photos incl. colors for illustration only.

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Contents

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What is Inspekto?

A powerful, **AI-driven visual quality inspection system** based on **machine vision**, easy to use and proven successful across various industries and use cases.

Will solve many of the shop floor **quality** needs **without requiring vision expertise or AI know-how**.

Now, anyone can automate!

Complex visual inspections - simplified with Inspekto AI capabilities.

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Our Solution: AI-Based Visual Quality Inspection

Industrial grade, scalable solution for manufacturers in various industries

Main USPs

Easy to Use & Maintain

Simple **setup** as well as ease of use in **continuous adaptation**, re-commissioning and **operation**. Suitable for a variety of use cases.

Reduced Effort

No AI expertise required to implement, deploy and maintain. Simple UI that guides the user.

Quick Setup

Only ~20 good samples required - no defective samples needed.

Self-adaptive

Can detect unforeseen defects and is adept to handle surface variations typical in many industries.

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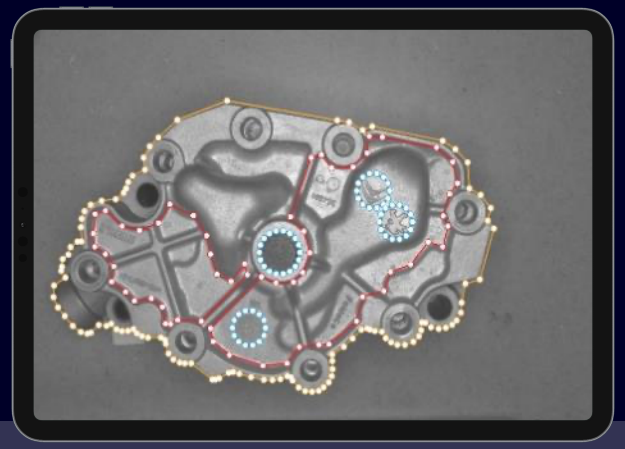
Enabled by Our Unique Technology: 3 Synergetic AI Engines
Inspired by the Flexible Human Cognition

Acquisition AI

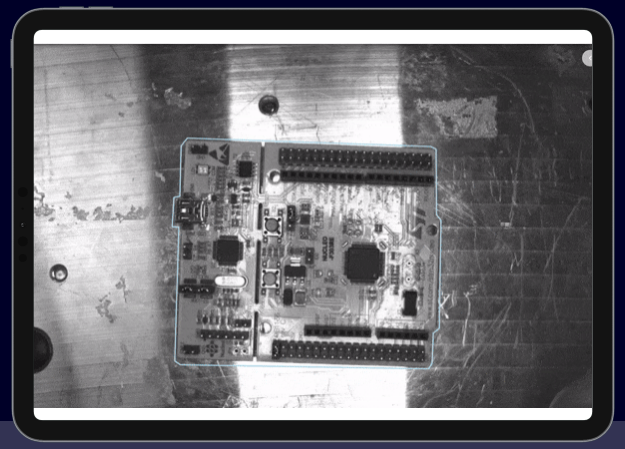
Obtains the optimal image
Optimizes hardware settings per inspection scenario and dynamic environment



Self setup of all optics parameters – system optimized for Region of Interest (RoI)
Self adjusting mechanism during runtime

Recognition AI

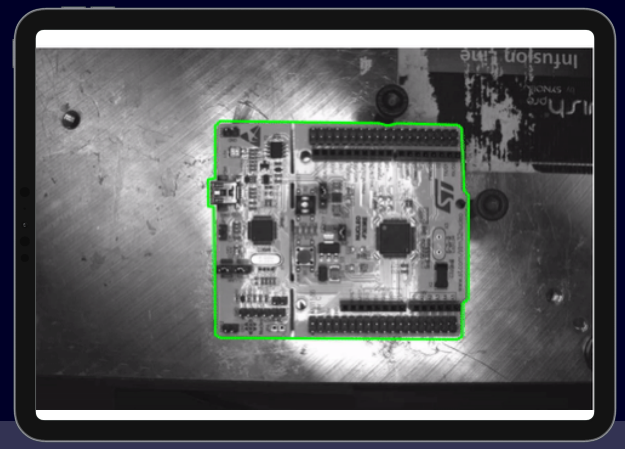
Identifies the part
Recognizes the part and its exact location



Detects objects of different shapes and surface type. **Supports different locations** and rotation in the Field of View (FOV)

Inspection AI

Inspects for detects
Inspects the part for defects, learns and optimizes



Learns product tolerances, physical attributes and permittable defects
Can detect defects that are **not pre-defined**

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Quick, efficient, smart & flexible
The Fast Track to QA Automation and Excellence – SUPERCHARGED with AI

Inspekto offers

Dynamic learning capabilities

- Learns from few good samples and expands on this basis
- Self-Supervised learning
- Self-supervised AI proprietary techniques for high performance cold-start inspection without coding, training, or online processing required

Automated performance

- Automatic AI Configuration- World unique AI for direct control and optimization of both H/W and S/W to self-adjust to various use cases
- No Experts needed – Automatic image optimization

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Providing the Advantage Manufacturers need

QA independence

- Designed for self-use
- No need for Machine Vision or AI expertise
- Easy maintenance ensures continual high performance

High reactiveness

- Immediate resolution of new, unforeseen QA needs
- Defect detection without prior defect definition
- Runs on IPC – no need for Cloud Service

Smart machine vision that meets production agility

- Flexible QA solution that fits dynamic needs, such as high mix/low volume I4.0 production schemes
- Future-proof

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One System – Multiple Applications

Industrial grade, scalable solution for manufacturers in various industries

Industries	• Automotive • Electronics (PCBs)	
Material[1]	• Plastic • Metal • Rubber	
Processes	• PCB Assembly • Soldering • Plastic injection Molding • Integrity of parts	• Metal Processing • Metal Casting • Assembly verification • Alignment of components
Positions	• End of Line • In-Line • Inspection stations • Integrated with robots and co-bots	
Structural defects and more		

1 Incl.: Excess/Missing Material and Unwanted residuals/comp. defects

Note : Not applicable to food & beverages

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Inspekto’s Unique Value Proposition
vs. other solutions

Topic	Inspekto AI-based System	Other machine vision with AI
AI Scope	✓ End-to-end from image capture through part recognition and defect detection to real time reporting	✗ Defect inspection only
Image Capturing	✓ Dynamically adjusts the electro optics system to acquire the best image	✗ Image acquisition is pre-set and not dynamic
Part Recognition	✓ Automatic independent recognition; doesn't require triggering	✗ External trigger
Inspection	✓ Small amount of OK images. Specific defect sensitivity	✗ Requires many OK & Not OK (NOK) samples for each defect type
Deployment Simplicity	✓ No on-site training process, no expert required. Requires low amount of data	✗ Complex, expert dependent on-site/cloud AI training, requires rule-based programming for full solution pattern matching
Life-cycle performance control	✓ Autonomous performance optimization by active recommendations engine	✗ Periodical, reactive expert dependent, complex maintenance with re-training

Inspekto Customer Journey
Simple, Immediate

Inspekto

UCV

Solution cost is clear upfront. Customer can operate independently.

Immediate use case verification

- Customer to provide 20-30 OK samples
- Customers can install themselves. Usually within days

Customers reoptimize performance themselves using the system with full independence

Conventional machine vision

UCV

Higher TCO, longer process, more investment might be needed going forward. Customer depends on external supplier.

- Customer to prepare detailed specification
- All potential defects defined up front
- Optional – paid PoC project (can be weeks)

- Supplier designs and integrates components into solution
- Between a period of days to several weeks

- Supplier's experts perform :
  - On-site electro optics configuration
  - Programing
  - Complex AI training
- Customer to provide 10s-100s of samples of OK and each NOK class
- Customer to provide test set for each defect type
- Between a period of days to several weeks

- Due to production variability, customer might periodically need to call supplier to re-optimized performance
- Pending supplier's experts' availability
- Supplier reprograms and re-trains inspection system

Pre-purchase or pre- deployment | Between purchase to supply | Deployment to reach operational performance | Life-cycle inspection

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Inspekto delivers these Machine Vision Components
Instead of complex projects, usually expensive and risky[1]

Other MV Solutions

Traditional Vision Engineering Software + AI-tools & Vision Engineering Software

+

Vision Software Foundation (drivers, firmware, …)

+

Vision Hardware (camera, lens, lights) + Computer Hardware

+

Project Manager | Vision Expert | AI Expert | Automation Engineer | Shopfloor worker

Complex | High and unpredictable TCO | Experts Dependent

Inspekto

Smart AI-based Vision Engineering Software

+

Dedicated Vision Hardware (camera, smart light)

+

Other Vision Hardware (IPC)

+

Automation Engineer **Optional** | Shopfloor worker

Low-entry barrier

1 Often not applied due to complexity and risk factor; with Inspekto, UCV is immediate and solution is end-to-end.

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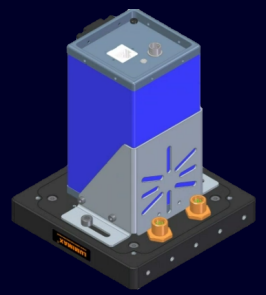
HW

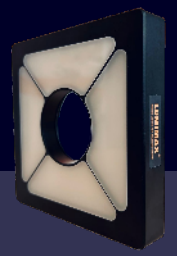
The Inspekto AI-based Visual Quality Inspection system is a self-contained visual inspection solution.
It comes ready to connect directly to your production line and your PLC with everything you need for deployment.



Camera

The Imaging Source – X17 zoom and auto focus

Smart Light[1]



Controlled by our SW, enabling automatic Advanced features such as anti-reflection

IPCs - 2 options per use case needed:

Siemens BX-39A

Covers many inspection use cases; suitable for up to 3 inspections per sec.

Siemens BX-59A

For higher demand use cases with up to 10 inspections per sec.

1 Can work with various cameras

2 For more details on Siemens EcoTech for Environmental Product Declarations (EPD), pls. click here for the IPC BX-39A and here for the BX-59A

2 Siemens EcoTech

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Technical Specs[6]
Inspekto

Inspection

		NEW IPC
Inspection cycle time[6]	~0.3 seconds[1] With IPC BX-39A	~0.1 seconds[1] With IPC BX-59A
Part speed	up to 0.75 m/sec[2]	
Installation distance	2cm – ∞[3]	
Minimal defect size	0.33 mm @ 10 cm distance W/O optical zoom[4]	
Optical zoom level	X17	
Optics and lighting adjustment (Focus, exposure, gain, others)	Autonomous embedded anti-reflection adaptive lighting	
Trigger type	Automatic/manual/PLC/trigger-in	
Number of inspection profiles supported on a single Inspekto	Will be offered in 2 packages: 1. Package of 6 profiles + 2. Package of unlimited profiles	
Number of actionable inspection areas, regions of interest (ROIs)	Unlimited	
PLC reporting is provided per ROI	64 ROIs[5]	

Check the Inspekto Specs: Space constraints, working distance for the camera linked with the minimal size.
1 Cycle time may vary & depends on image grabbing method, triggering method and other factors. | **2** Requires triggering/automatic triggering |
3 Recommended work distance 2 – 100 cm. | **4** Minimal defect size depends on the Vision System's distance from the inspected part. |
5 Number of reported ROIs depends on connectivity type. | **6** Based on existing configuration; might change with the use of different hardware.

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Same Inspekto – diverse Performance Options with 2 different IPCs

Siemens BX-39A

Easy to use, inspection ready potent visual quality inspection system with the benefits to the user of quick set-up and user-friendly UI for non-expert use with high-performance, expert-level inspection capabilities. Suitable for:

1.Use cases with inspection rate of up to 120 inspections per minute
2.Many diverse use cases for diverse material, verticals, etc

NEW IPC

Siemens BX-59A

All of the core kit capabilities, with Nvidia L4 GPU for :

•Faster profile setup (faster session analysis)
•2-3 times faster inference performance
•x4 disk space

Suitable for:

1.Use cases with higher inspection rate (more inspections per second) *
2.Use cases with high variety in parts appearance (require many samples in each profile).

***Practical Example** : Compared to the BX-39A, the IPC BX-59A ensures still offering an out-of-the-box AI-based Machine Vision solution with shorter session analysis and inspection cycles : average speedup of X3-3.5 in Session Analysis and Inspection times for Inspection ROIs and ~X2 for Presence ROIs.

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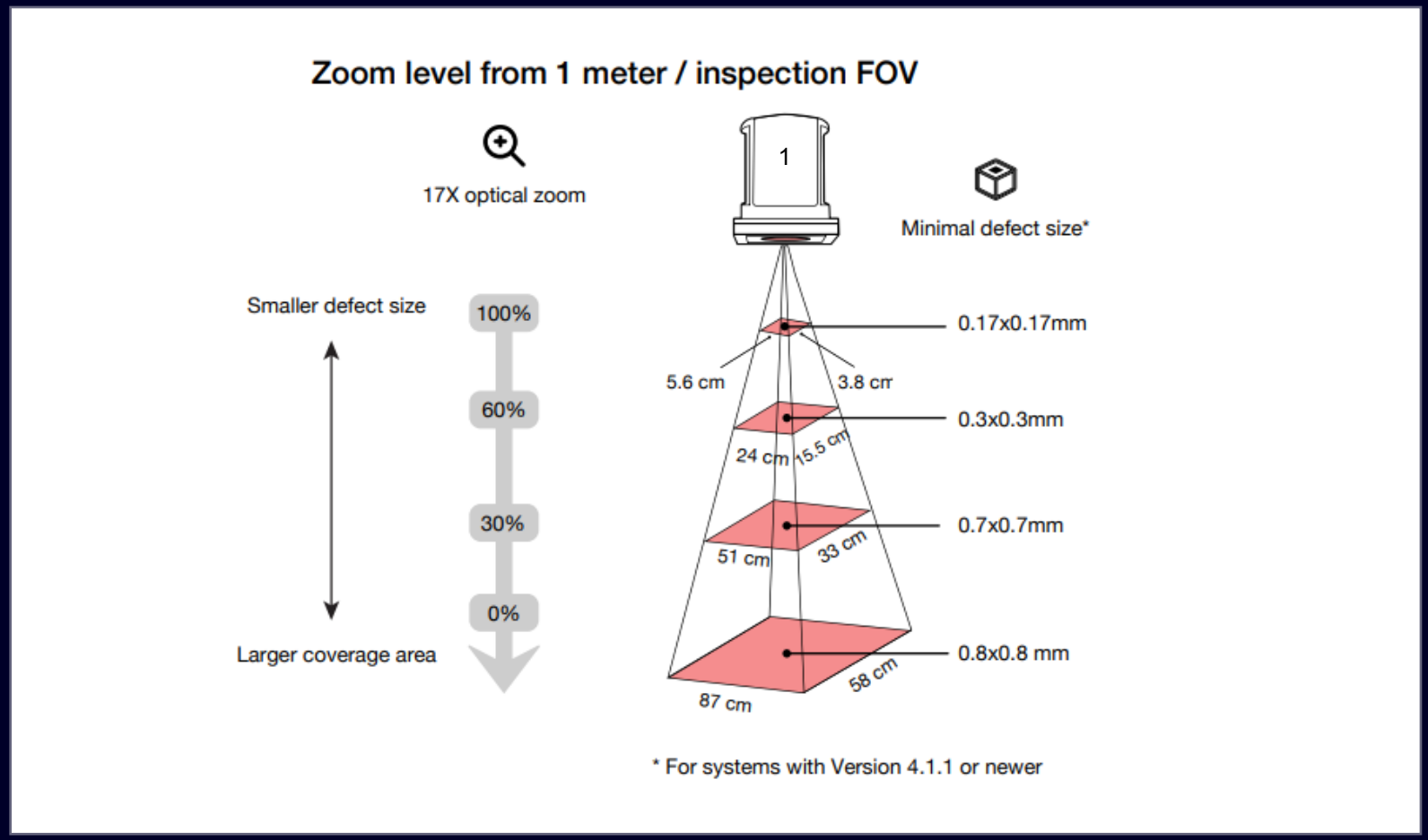
Inspection Field of View and Minimal Defect size

Wide range of part sizes and minimal defect sizes detection



1 Vision head for illustration; might change.

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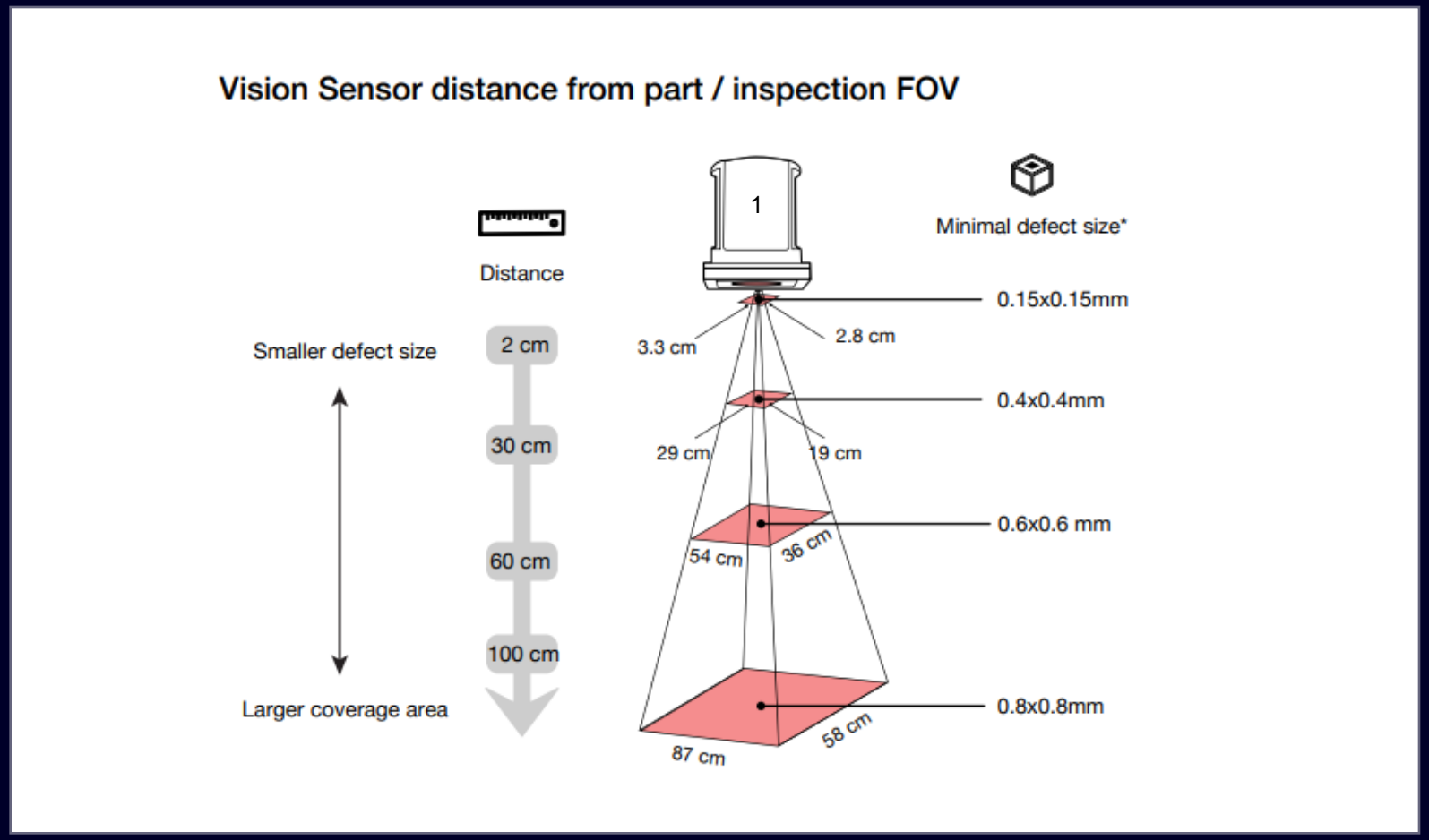
Vision Sensor distance from Part/Inspection FOV

Correlated to the Vision System set-up distance from the inspected part and the level of the used optical zoom as described in the diagram.



1 Vision head for illustration; might change | **2** Note: Vision head for illustration; might change

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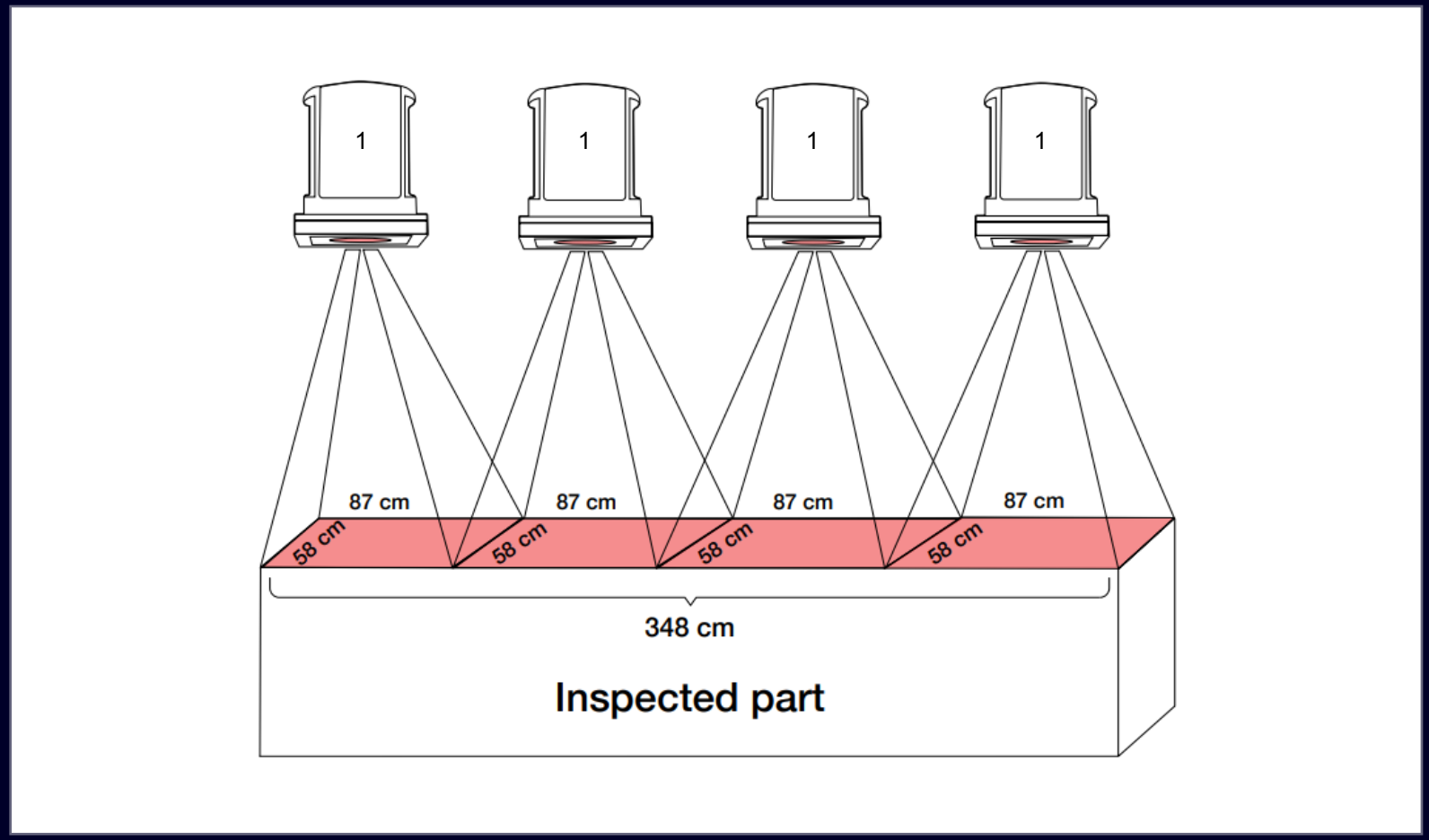
Flexible set-up

The parameters of the vision system can be modified to inspect larger products by incorporating multiple systems along the production line.



1 Vision head for illustration; might change.

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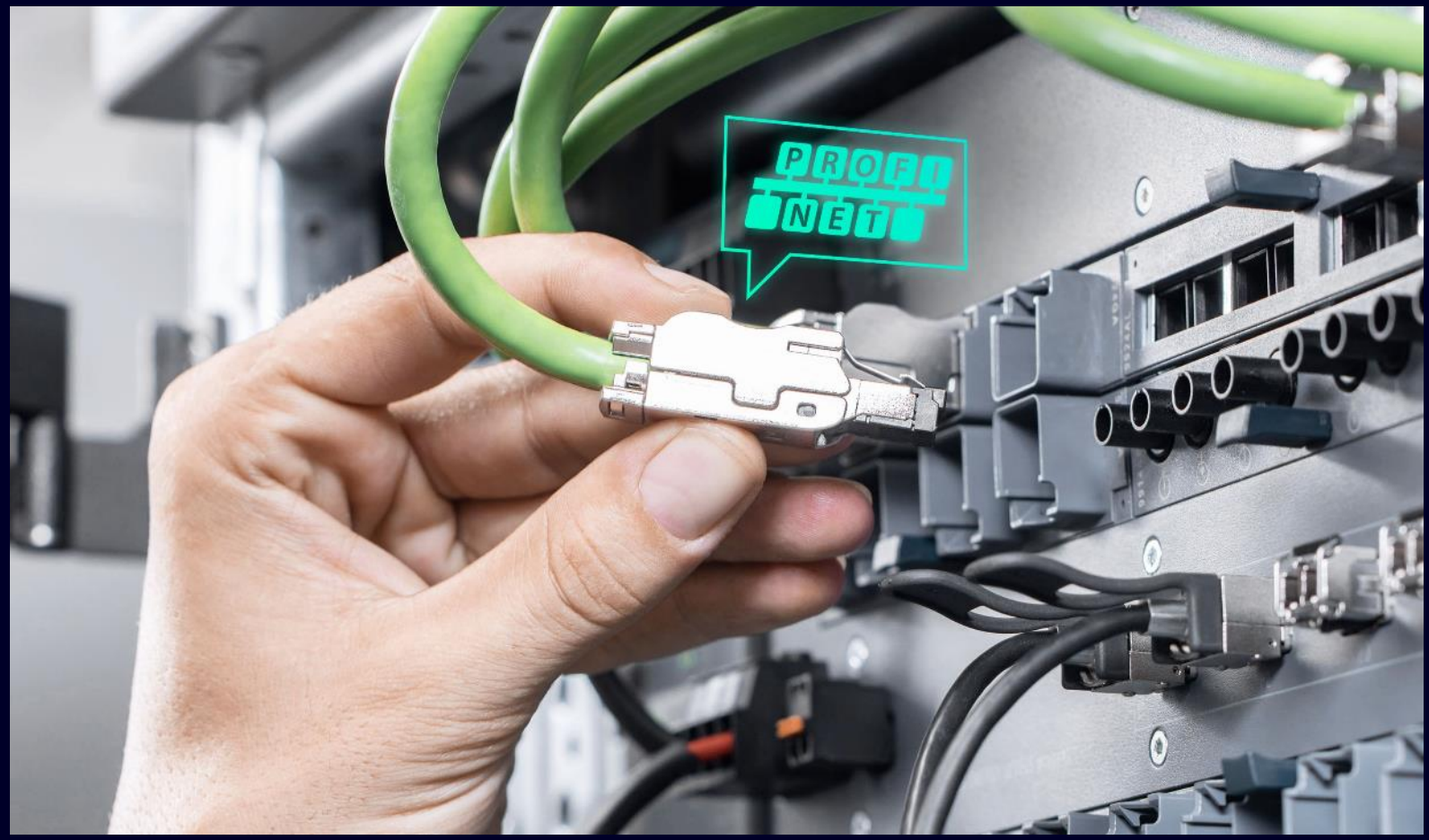
Supported connectivity protocols

Fast and easy wiring

Profinet
Ethernet/IP
TCP/IP

Images transfer
FTP
S/FTP



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Inspekto System with full SIMATIC Portfolio

NEW IPC

All you need to easily automate your visual inspection process !

Hardware Components

SIMATIC IPC BX-39A/59A**

SIMATIC Unified HMI***

Inspections can also be triggered via SIMATIC PLC so automation is smooth (optional, not delivered w/in Inspekto)

Connectivity & Integration

Seamless integration with SIMATIC controllers via TIA Portal

Using PROFINET connection

Additional PLC protocols available

*Installation on arm in image just for illustration

**Pre-installed with Inspekto SW when purchasing the Inspekto VIS core kit. An additional option of IPC BX-59A for high demand use cases is offered.

***SIMATIC IFP when running standalone, SIMATIC Unified HMI when running with PLC.

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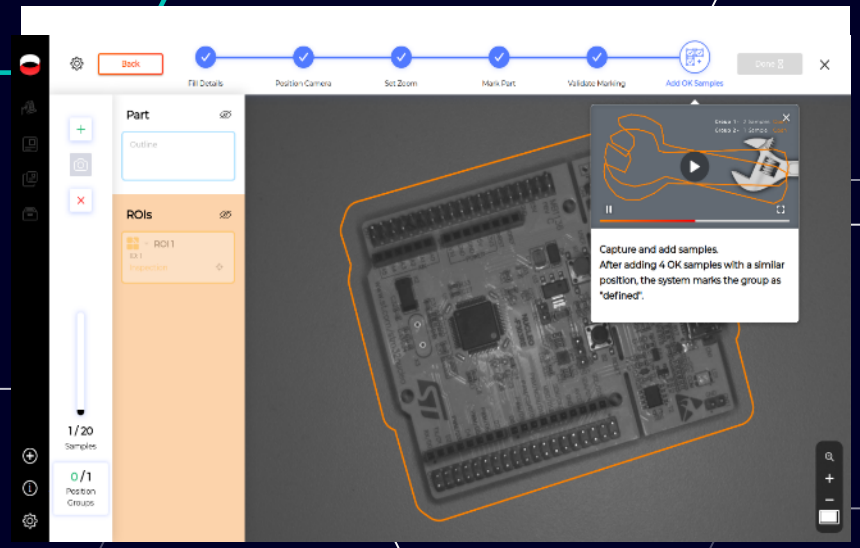
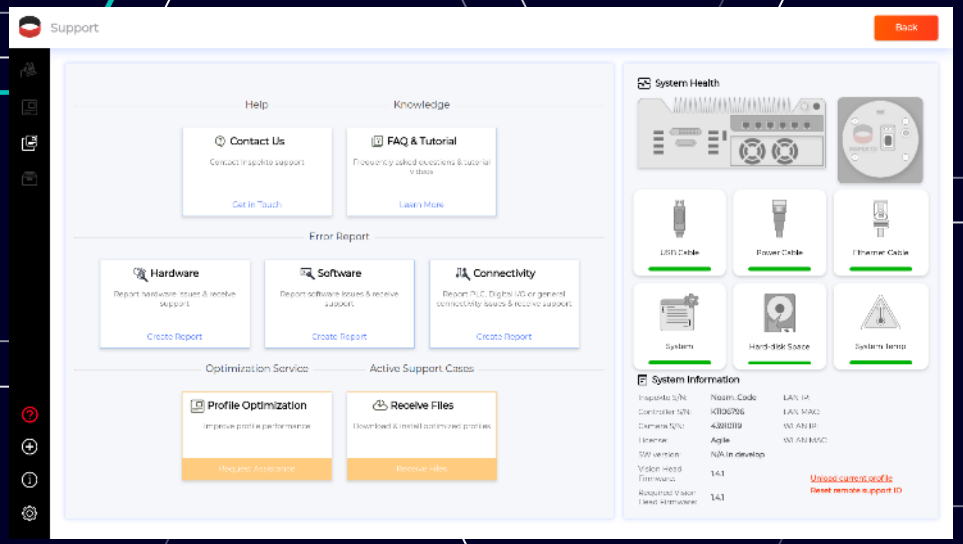
Inspekto Quality Visual Inspection System
Maximum Automation and Ease of Use – some examples

UI/UX guides User to Success



Built in Support Center[1]



1 Note: Paid Support Services are available and can be provided upon need such as profile optimization

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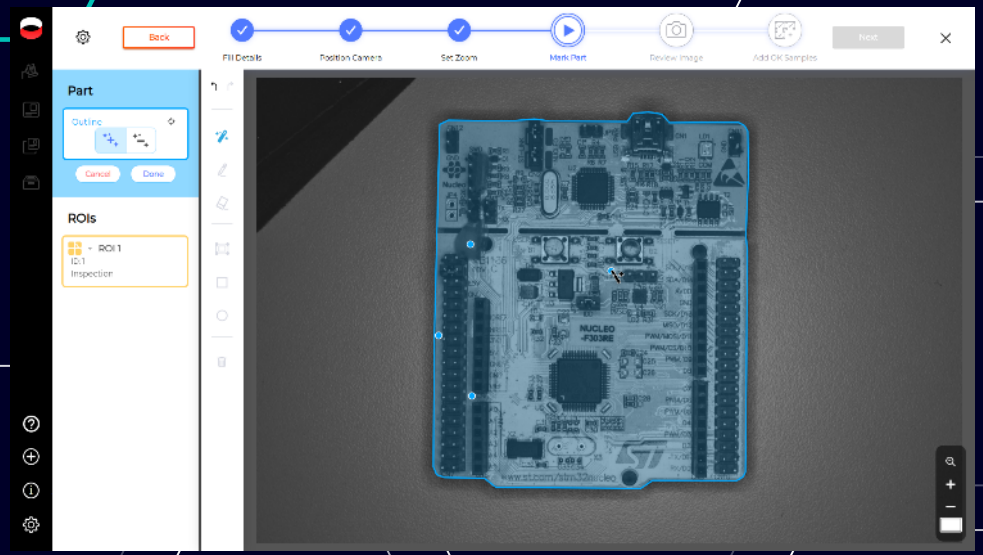
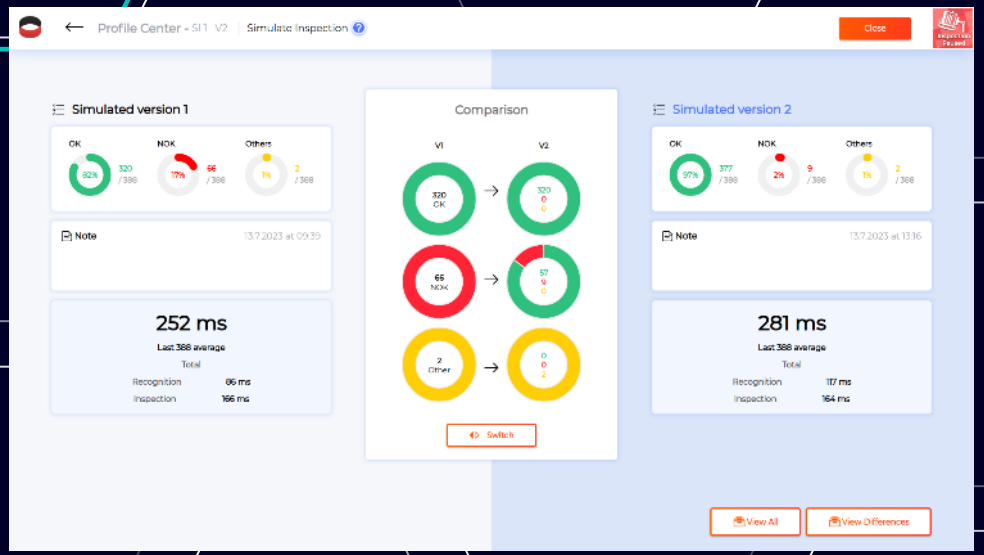
Inspekto Quality Visual Inspection System
Maximum Automation and Ease of Use – some examples

Ease of Use – easily mark the inspection area with auto mark-up



Save time with quick part automatic marking.

Simulate Inspection– compare results to verify performance



Gain confidence in your changes by using Simulate inspection, a tool that allows you to run previously taken inspection images on new profile versions and to view and compare results to verify performance.

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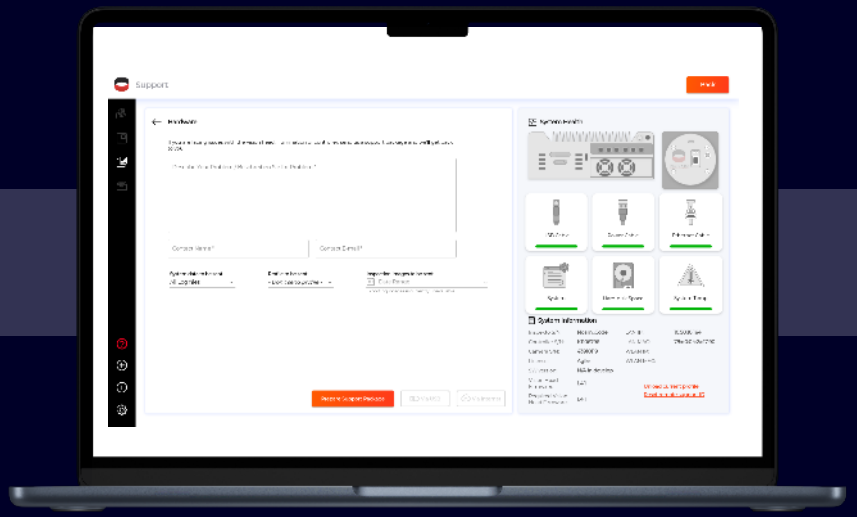
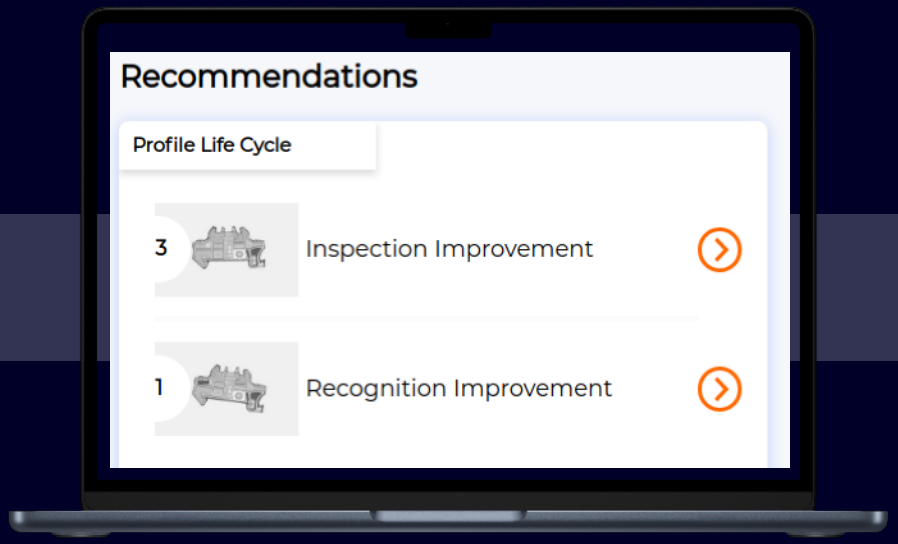
Support





Support Center [1]
The ability to send support package whenever there is an issue. Packages can be sent directly from the system or through a USB device.

Service
Profile optimization is a paid service that allows the user to get his profile optimized remotely and get it back ready for deployment.

The system monitors production changes and recommends adding new samples to keep the high performance of the system

1 Note: Paid Support Services are available and can be provided upon need such as profile optimization

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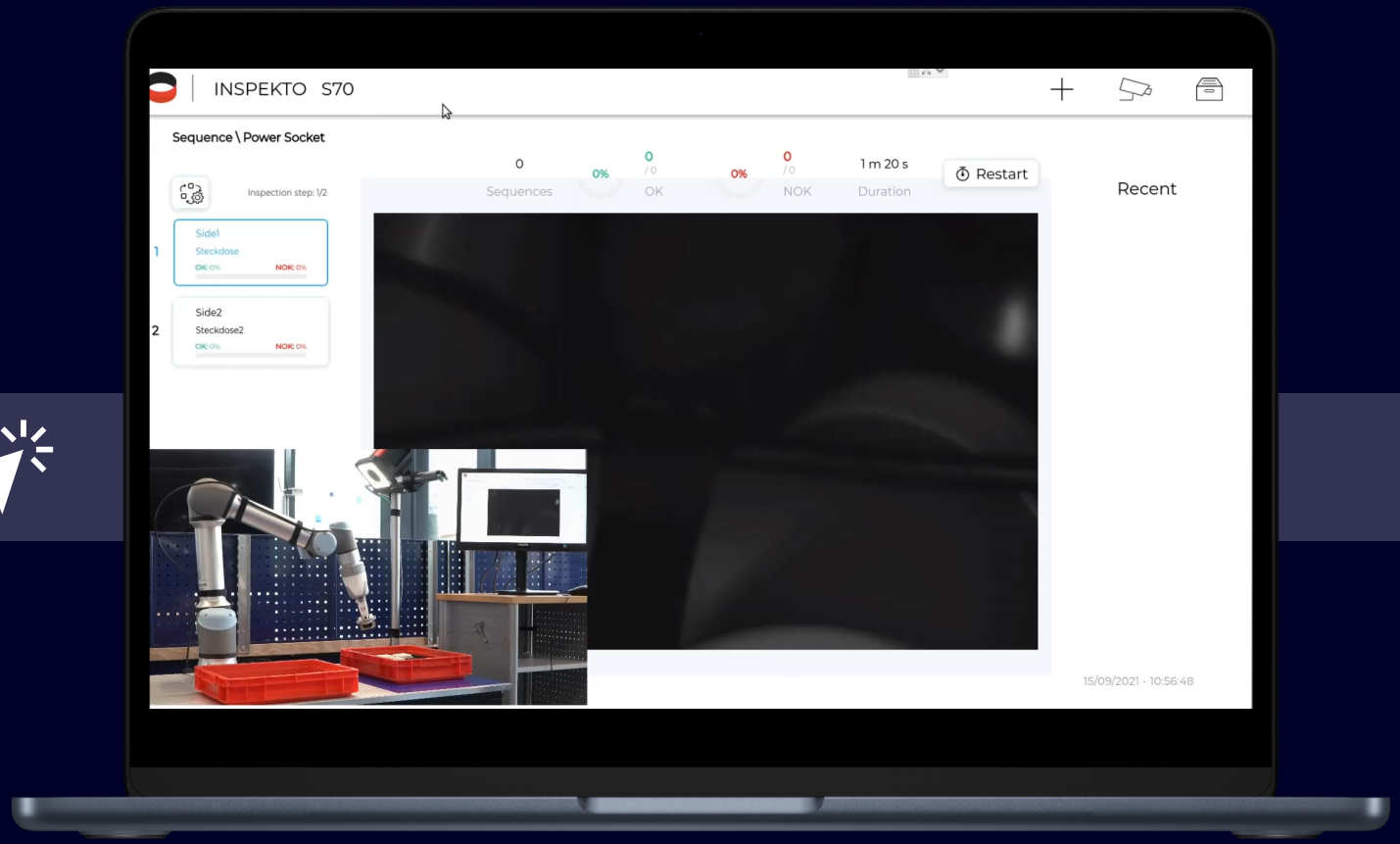
Easy to set-up wherever needed
With Flexibility within the Process



- Can be mounted on robots and co-bots
- Inspects stationary parts & parts in motion
- In fully automated production cells
- Multi camera setups are possible

Incoming goods | In-line | End of the line | Stand-alone stations

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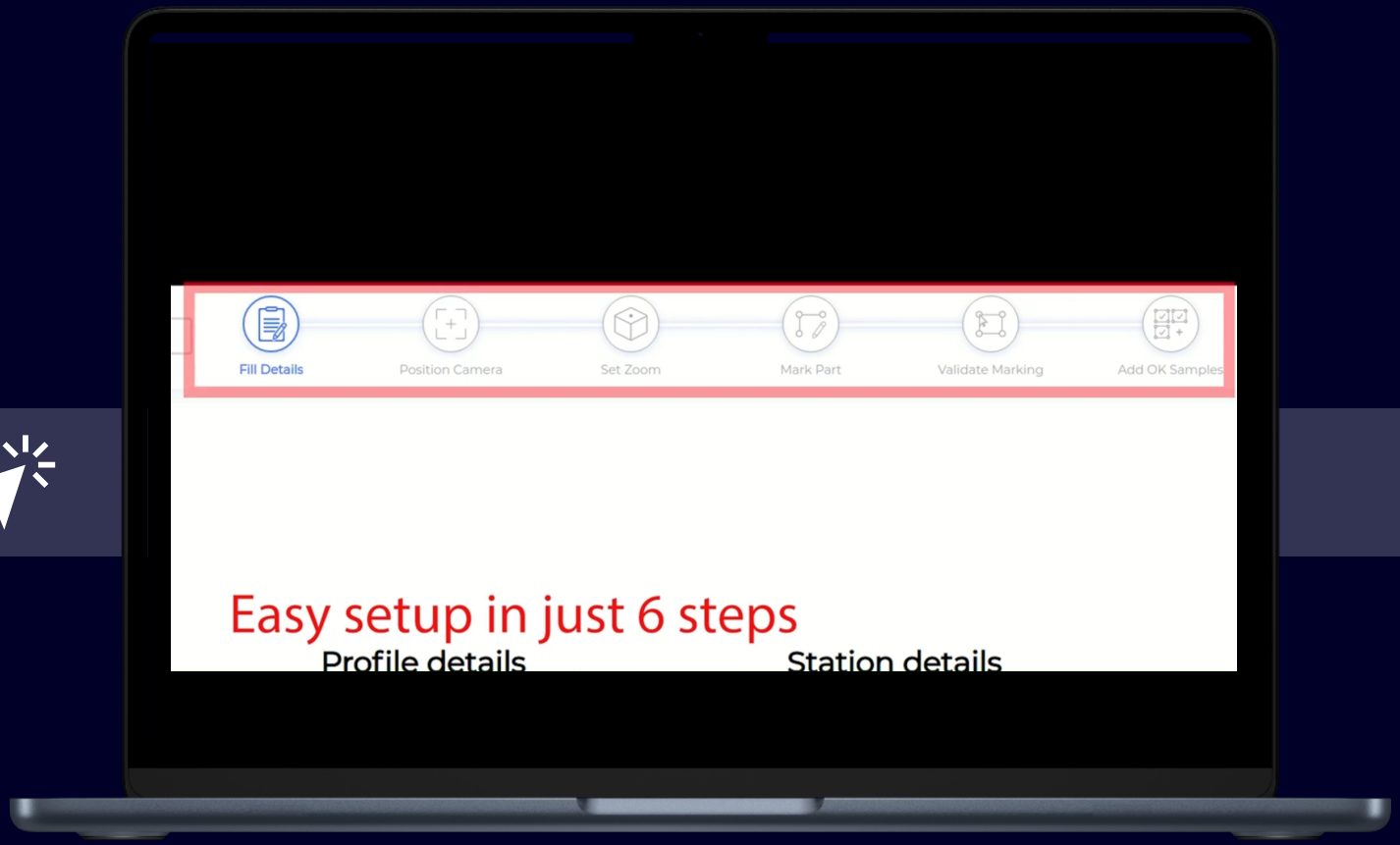
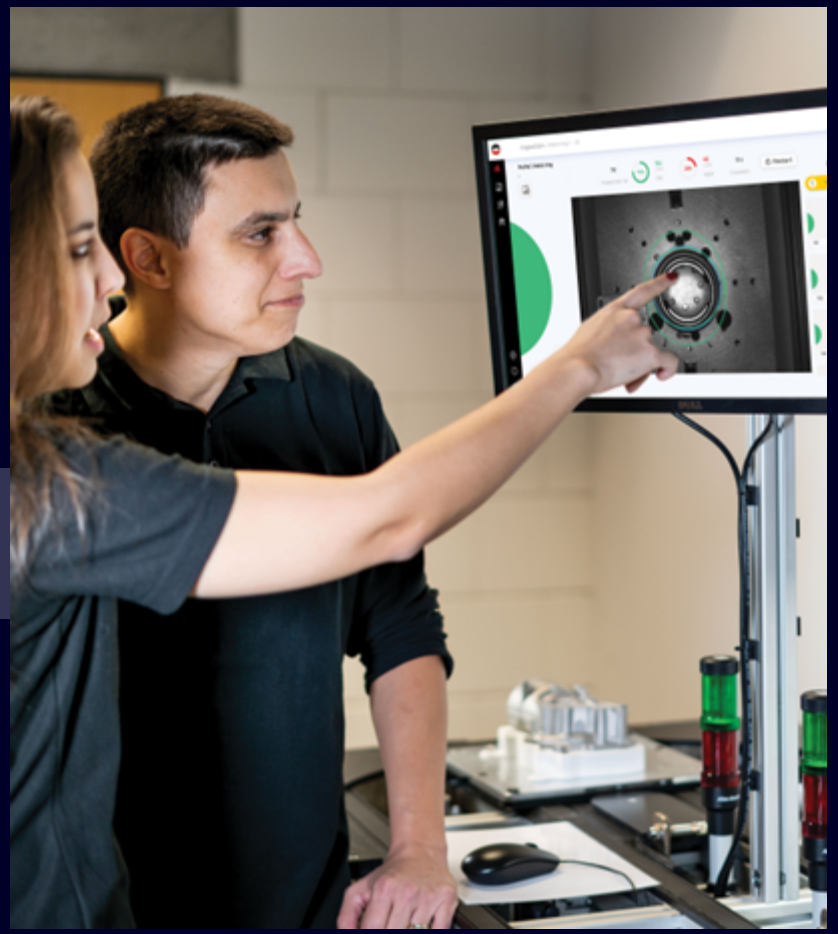
Easy inspection profile set-up demonstrated

Can be done with own personnel, no coding needed





FAQs

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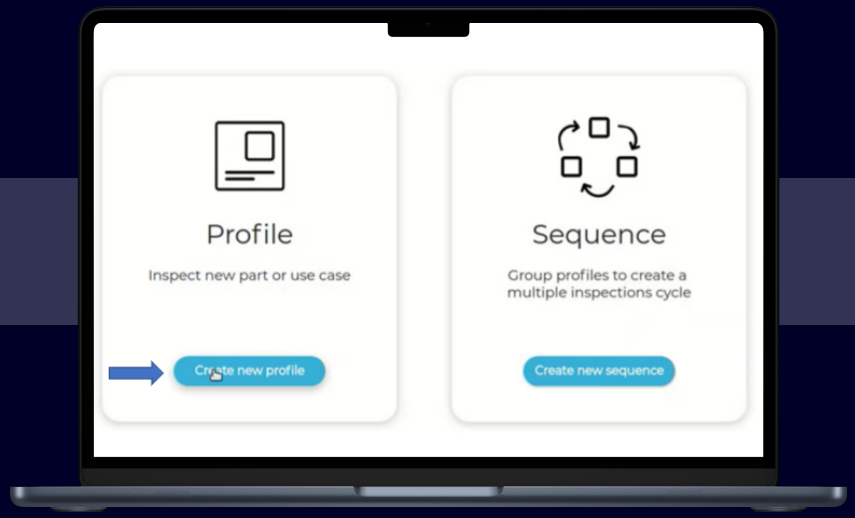
Profile Setup

When setting up the Inspekto VIS to inspect a new product, users must create a profile.
Creating a profile includes marking the part area and the regions in the part we need to inspect, and showing 20 OK samples of parts.
Everything else will be done automatically by the system's AI modules* including finding the best available image according to the marked part, and selection of the applicable imaging mode such as Anti-Reflection or HDR.
Profile setup is a simple, guided step and typically** takes 20-30 minutes. When it's done, the Inspekto VIS system is ready to inspect the new part.



Inspekto Core
Supplied with a license for the setup of 6 inspection profiles so that, to illustrate with an example, you can inspect 6 different cubes from 1 angle or one cube from 6 different perspectives.

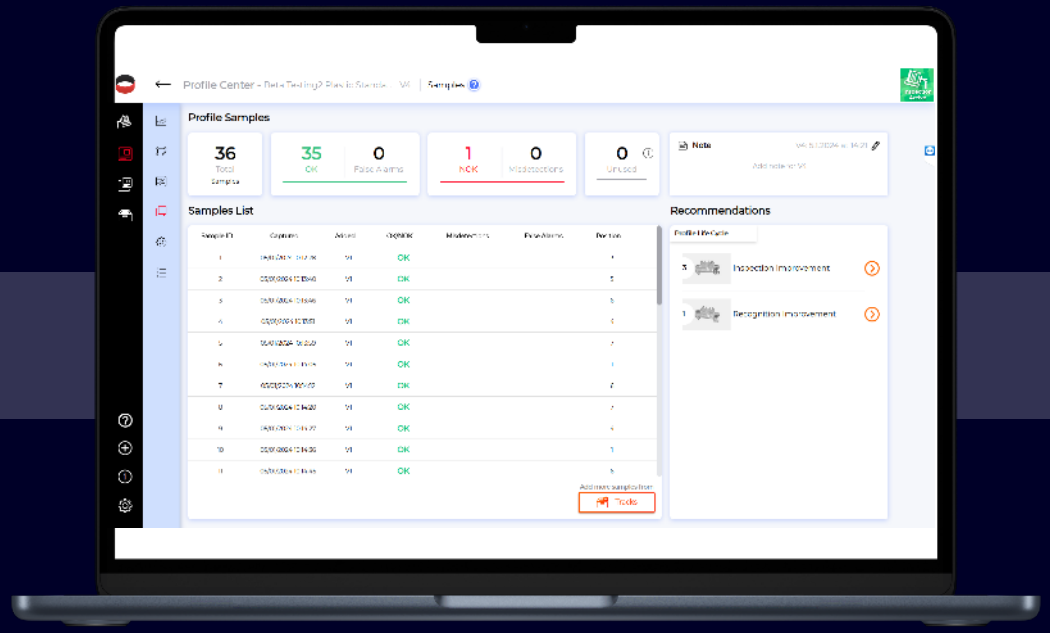
Power Pack upgrade option available

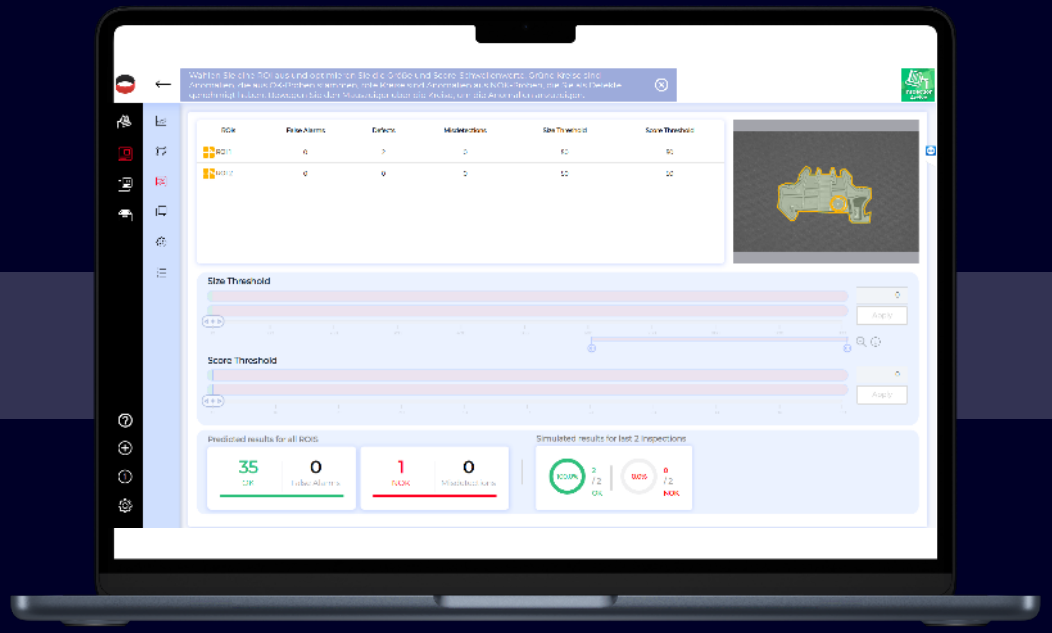
Inspekto Pro
This license offers Unlimited profiles so that you can inspect any use case that comes up according to your changing needs

*'Image optimization' will **automatically** tune all of the electro-optic parameters including focus, iris, exposure etc; it will also automatically activate HDR or the system's unique Anti-Reflection technology if needed according to the image and marking data.

**Depending on the exact use case

More about Profiles





- Each profile requires a minimum amount of 20 ”good” parts = OK samples
- Adding Not OK (NOK) samples is optional

- Can be used with up to an unlimited amount of profiles[1]
- Optimize profiles with “Profile Center” tools – add more samples, change profile markup, set minimum defect size

1 Offering incl.: 2 licenses (1) up to 6 profiles, (2) unlimited profiles.
'Power Pack' upgrade option from Basic to Pro is available to customers at a cost.

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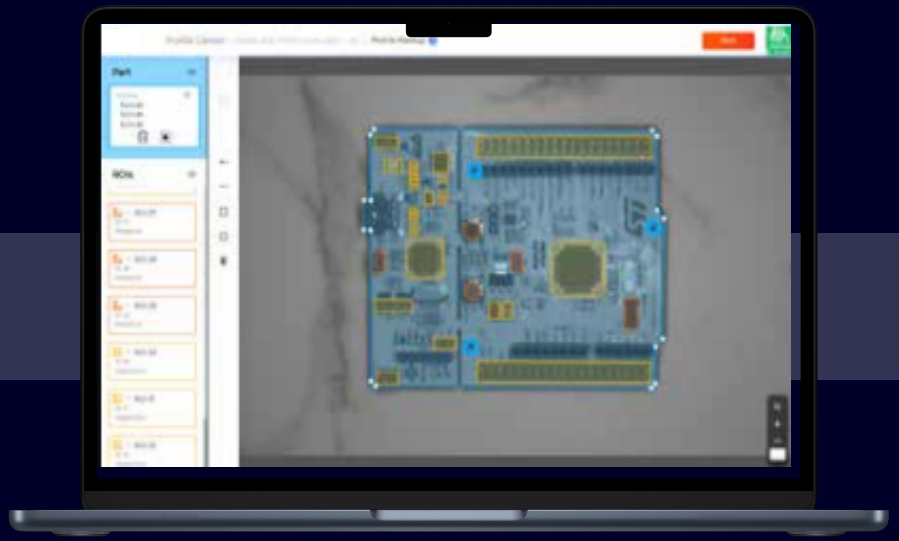
Unlimited Regions of Interest in Each Profile

The system can inspect various regions of the part or product within each profile



Regions of Interest

The user can define unlimited regions of interest (ROIs) within the part and adjust the size and sensitivity thresholds independently for each one. In this way, the system can be easily customized to the requirements of each use case and the nuances of each part, allowing for unprecedented accuracy.

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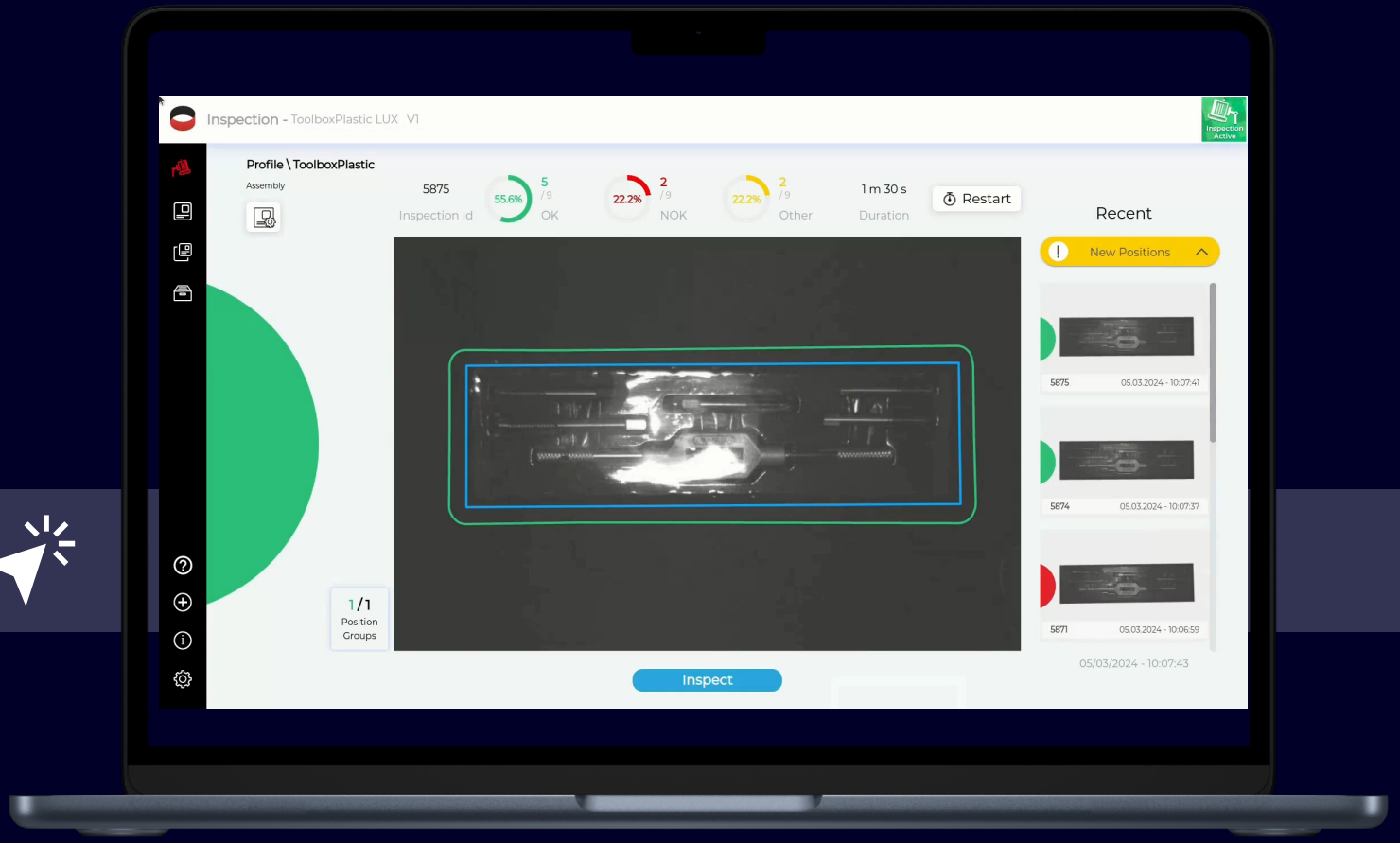
Unique Anti-Reflection Technology for Reflective Materials & Surfaces



Eliminates reflections, self-optimizes image[1]

PATENT PENDING

Can inspect reflective parts accurately in stationary parts and parts in motion in production.

System controls the detection sensitivity of each defect type separately

No flickering or disturbance to nearby workers.

1 Reflective objects create a challenge for visual quality inspection since light reflected towards the camera often causes image saturation and loss of details.

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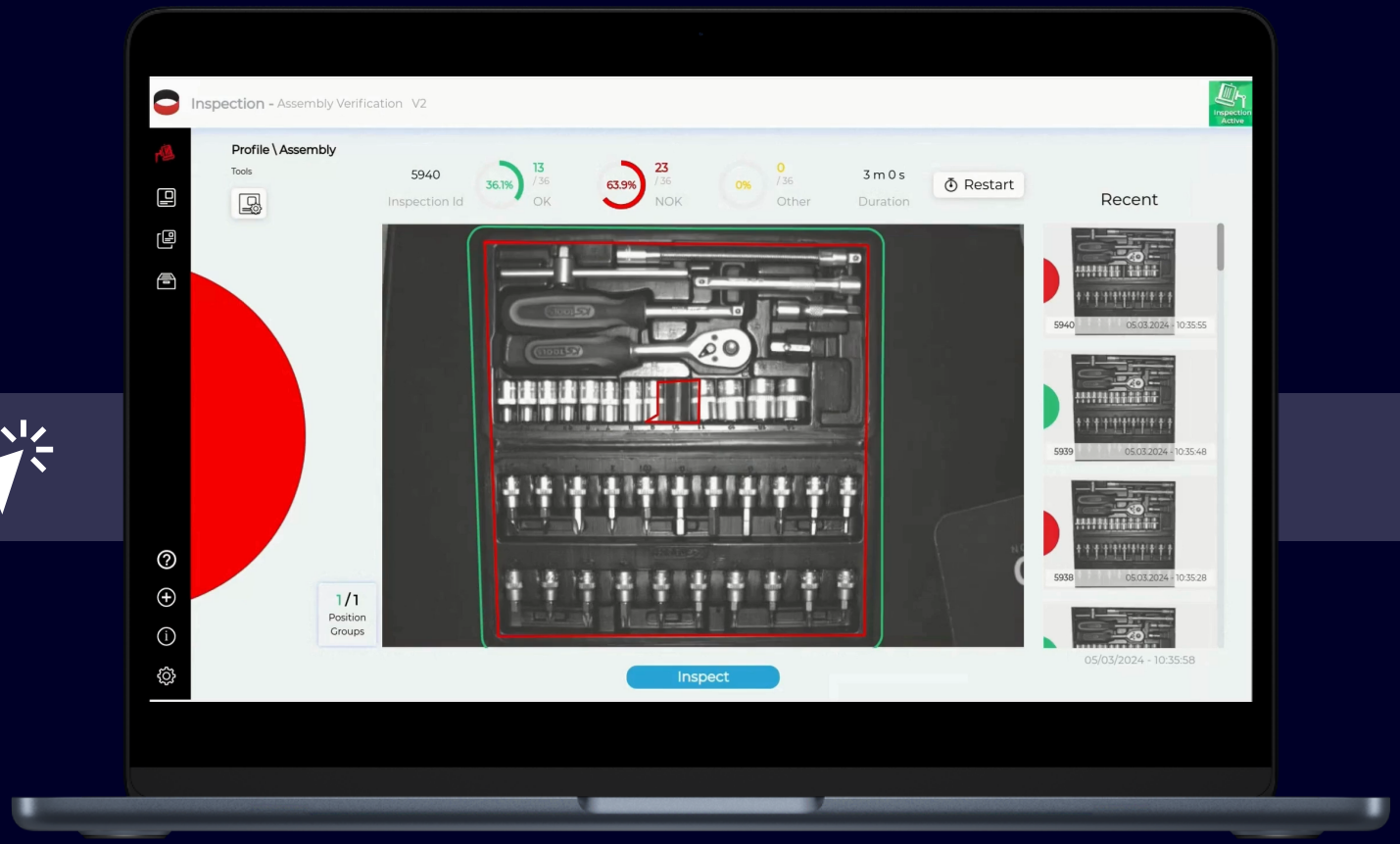
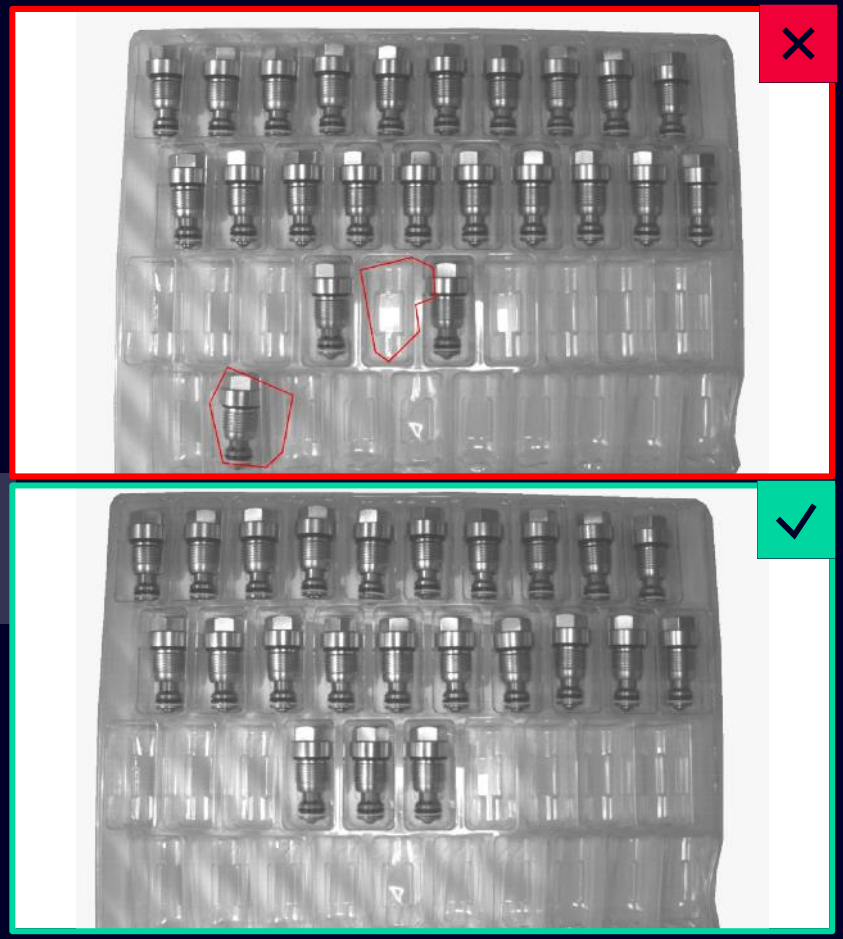
Multiple Parts Inspection
Missing components detected





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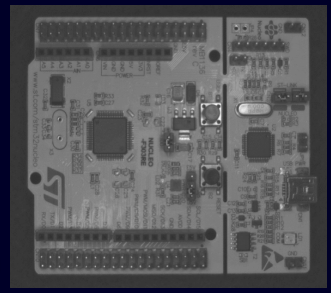
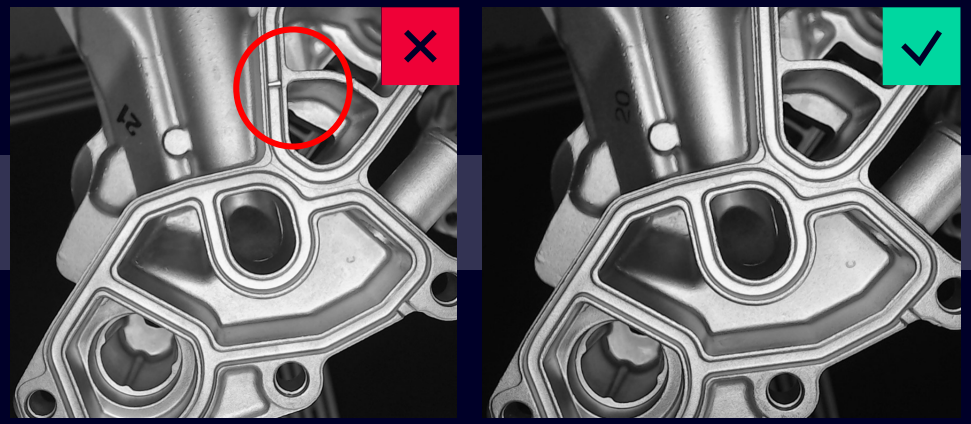
A Multitude of use cases can be inspected

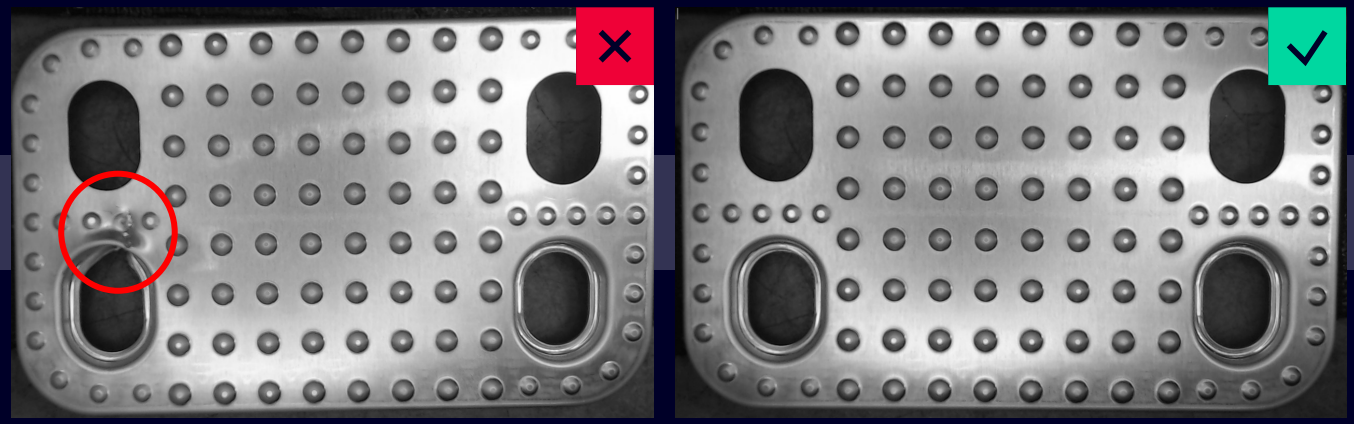
Powered by AI: Defect detection without prior defect defintion or training

PATENT PENDING

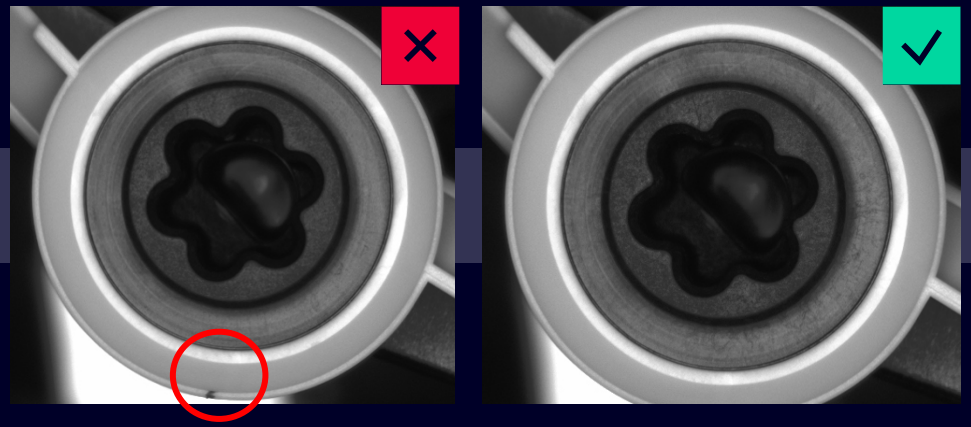


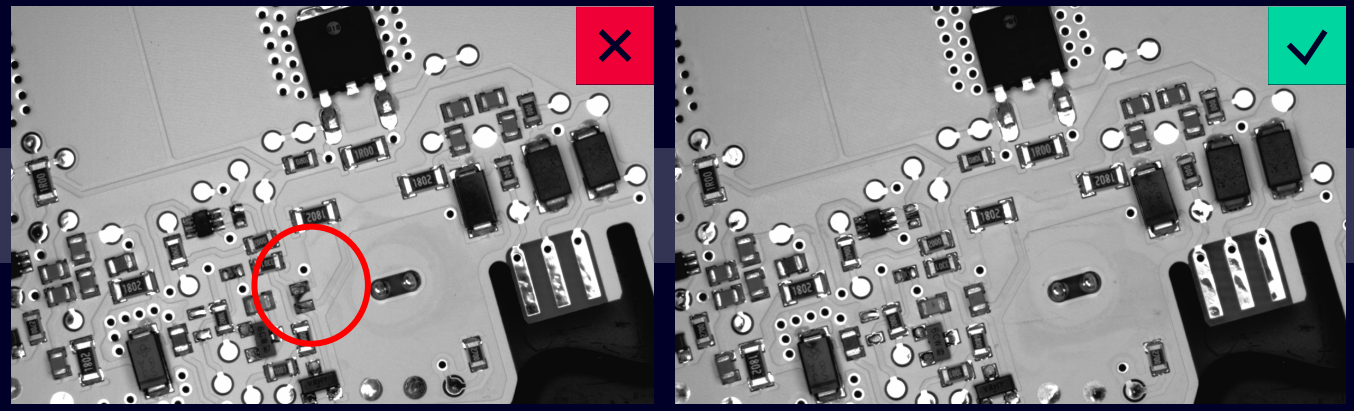


Small defects easily detected in surface inspection



IINSPEKTO's unique, Patent Pending inspection technology can inspect reflective material





AI-based visual inspection provides immediate reporting on component placement and defect such as in PCB assembly

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Versatile Use Cases in a Variety of Industries

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Plastic Connector - Injection Molding Check

Inspection Use Case

Application

Plastic injection molding inspection.

Inspection Objective and Potential Defect Description

1. detect missing pins
2. detect bent pins
3. detect pins with excess plastic

Permitted defects

1. Dust specks are visible at large zoom
2. Pin head roundness can be slightly different

Special inspection challenges

Mold changes over time.

Production Environment

Line Handling Method

Conveyor belt

Inspection triggering method

Automatic

PLC type and protocol

Profinet

Production speed

60 ppm

Part Description

Name

Plastic connectors

Materials

Plastic

Production process

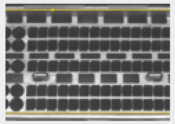
Injection Molding

Industry

Automotive

Using INSPEKTO

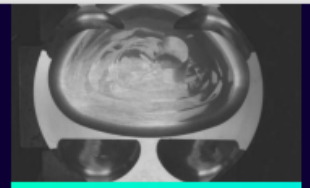
NOK



OK

SIEMENS

Piston Crown - Damages Check



Inspection Use Case

Application

Check top surface (crown) of a piston

Inspection objective and potential defect description

Pistons are used in every combustion engine. The item checks for dents and scratches that are caused in the production process.

Permitted defects

Texture changes, water stains

Special inspection challenges

Different surfaces reflect light in different ways and some areas are dark, which makes it hard to see the defects there.

Production Environment

Line Handling Method

Conveyor belt

Inspection triggering method

Automatic

PLC type and protocol

Profinet

Production speed

60 ppm

Part Description

Name

Piston Crown

Materials

Metal

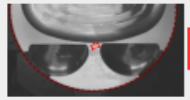
Production process

Forging/CNC

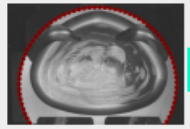
Industry

Automotive

Using INSPEKTO



NOK



OK

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PCB - Soldering Integrity and Shortening Inspection

Inspection Use Case

Application

Check soldering integrity, ensuring no shortening between 2 solder points (e.g. two solder points accidentally being soldered together), and no foreign objects on the solder points.

Inspection objective and potential defect description

Soldering is done on numerous points on every PCB. The goal is to verify that the soldering is done well, filled to the edge (but not beyond), that there is no shortening between 2 or more solder points and no foreign objects attached to the solder point.

Permitted defects

Texture changes.

Special inspection challenges

Solder tail and shape vary.

Production Environment

Line Handling Method

Conveyor belt

Inspection triggering method

Automatic

PLC communication

I/O

Production speed

60 ppm

Part Description

Name

PCB

Materials

Plastic, Metal

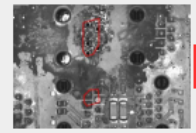
Production process

Soldering

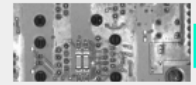
Industry

Electrical

Using INSPEKTO



NOK



OK

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Wide Applicability with Examples of Many Use Cases

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Electrical Connector - Pin Check

Inspection Use Case

Application

Check for integrity and damage.

Potential Defect Types

1. **Detect missing pins**
2. **Detect bent pins**
3. **Detect pins with excess plastic**

Special Inspections Challenges

1. **Pin head roundness may vary**
2. **Check up to 256 pins with one inspection**
3. **Dust specs are tiny and only visible at large zoom**

Production Environment

Line Handling Method

Conveyor belt and manual inspection

Inspection Triggering Method

Self triggering / Manual triggering

Part Description

Name

Electrical connector

Materials

Plastic, Metal

Production process

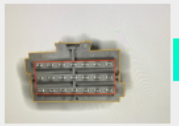
Injection Molding

Industry

Automotive/ Electronic

Using INSPEKTO

NOK



OK

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Transparent Plastic Cover

Inspection Use Case

Application

Surface inspection of shiny, reflective plastic parts.

Inspection Objective

Ensure quality of parts for water meters, as well as consistency in the inspections of a variety of, often, unforeseen defects.

Potential Defect Types

Black spots, scratches, any small defect incl. slight 'cloudiness' Foreign Material

Min. Defect size

0.33mm @ 10cm distance W/O optical zoom (*)

Production Environment

Line Handling Method

Production line conveyor belt

Inspection Triggering Method

Self-triggering

Inspection Results

All defects were detected, even parts that were initially marked as OK were disqualified due to small defects detected.

Part Description

Name

Water Meter Cover

Materials

Polycarbonate

Part Size

<15CM

Production process

Inline

Industry

Water Measuring Technology / Plastic

Using INSPEKTO

NOK

OK

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Rings Assembly Verification

Inspection Use Case

Application

Verify presence of ring inserts and validate rings are level with part's surface.

Inspection objective and potential defect description

6 rings are placed inside the holes in the part. The rings must be present, and leveled with the surface, to avoid assembly faults.

Special inspection challenges

Highly reflective

Production Environment

Line Handling Method

Manual

Inspection Triggering Method

Manual

Part Description

Name

Orbiting scroll

Materials

Metal

Part Size

16 cm diameter

Production process

Assembly

Industry

Automotive

Using INSPEKTO

NOK

OK

SIEMENS

Can Inspekto be used for this use case?
3 basic questions to check in order to determine suitability

Is the use case a visual inspection task?[1]

› Yes, it's applicable

Is the product or part a rigid one[2]?

› Yes, it's applicable

Is the inspection about 120 inspections per minute or less?

› Yes, it's applicable with **Simatic IPC BX-39A**

Is the inspection about 300 inspections per minute or less

› Yes, it's applicable with **Simatic IPC BX-59A**

- ✓ Inspection within complex surroundings
- ✓ Complex structures of the product
- ✓ Minimal defect size : 0.33mm @ 10cm distance W/O optical zoom [3]
- ✓ Working distances : 2cm up to 2,50m or even beyond
- ✓ Inspekto saves 100% of all images regardless of IPC type – this is a key advantage as 'Track & Trace' is vital in many cases and industries and not all vision systems can.

1 Note: Is it an inspection task solvable with anomaly detection or presence detection or are there other vision needs (sorting, counting ...) | **2** Objects can't be food. |
3 Refers to TIS Camera supplied as detailed in the offered bundles

SIEMENS

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Can Inspekto be used for this use case?
... more detailed Go or no-Go

Suitable:

- Rigid objects
- Inspection while moving (speed <0.75 m/s)
- Missing material (e.g. assembly verification)
- Extra material (e.g. solder balls in electronics, chips in metal)
- Chips, scratches, dents
- Positional anomalies (i.e., “wrong position”)
- Presence detection
- Surface inspection
- Inspection of 3D Objects
- OCR Print defects
- Large objects
- Partial object inspection

Not suitable:

- Color inspection
- Measurement
- Liquids and all Non rigid objects
- Dimensional measurement/Gauging
- Pick & Place/Guidance
- 3D Measurements
- Point cloud reconstruction
- 2D and 3D code reading
- Defect classification
- Micro objects (<5 mm)
- High Speed applications (more than 3/sec)
- OCR Reading

1 Currently not applicable

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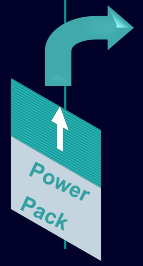
Inspekto Core – Our Product Offering Available on Siemens Mall

MLFB: 6ET2901-0AA00-1BA0

Software: Inspekto VIS **Basic** V6

6 Profile Limit



MLFB: 6ET2901-0AA01-1BA0

Software: Inspekto VIS **Professional** V6

Unlimited Profiles

Inspekto Core Power Pack (Software license)
MLFB: 6ET2500-5AA00-3AA0
Description :
upgrades Siemens Inspekto VIS Basic V6
to Siemens Inspekto VIS Professional V6

Hardware included for both MLFBs :

TIS camera x17 Optical Zoom
+ SmartLight
+ Cable & Mounting Kit

+

Siemens
BX39A IPC

Continuous Development

SIEMENS

Inspekto Core – Our Product Offering
Added Option with Simatic IPC BX-59A*

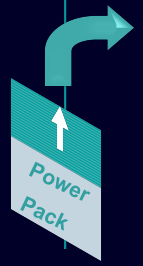
NEW IPC

MLFB: 6ET2901-1AA00-1BA0

Software: Inspekto VIS **Basic** V6.0.1

High Performance

6 Profile Limit



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High Performance

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Hardware included for both MLFBs :

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+ SmartLight
+ Cable & Mounting Kit

+

Siemens
SIMATIC IPC*
BX-59A

Continuous Development

*Its premium features are suitable for high-end machine vision tasks, so offered for high-demand inspection use cases such as with higher inspection rate, e.g. 300 inspections per minute, high variety in parts appearance, etc.

*6AG4133-0DG30-0AM0

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Thank you

Versatile applications

Easy to use

Immediate results & reporting

Fast ROI & future-proof

High performance

Line connectivity

Resilient to changes

Immediate use case verification

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