

FACTORY AUTOMATION



MELSOFT VIXIO

Visual Inspection Software MELSOFT VIXIO

Broadcast

Perform visual inspection
easily and accurately with AI



Concerns in the inspection process

- Labor shortages increase the burden on inspectors
- Generational changes in inspectors make consistent visual inspection difficult
- Even though inspection is rule-based, over-detection is increasing

It would be good to introduce AI if it wasn't so difficult to start without specialized knowledge.

The solution -
Visual Inspection Software



MELSOFT VIXIO

MELSOFT VIXIO Visual Inspection Software

MELSOFT VIXIO is software that performs visual inspection in coordination with external devices such as cameras. All necessary functions for a visual inspection system can be easily set up without programming.



MELSOFT VIXIO features

■ Featuring a high-speed, high-precision AI algorithm ideal for factory automation

AI introduction challenge

- The limited number of defective product images complicates accuracy improvement.
- Generating AI models requires extensive image learning, making the process time consuming and inefficient.

With  **MELSOFT VIXIO**

Easily generate AI models with high-speed, high-accuracy AI.

■ Simple operation settings without programming

AI introduction challenge

Even if an AI model could be generated, specialized programming is required to implement it in the system.

With  **MELSOFT VIXIO**

Easily set up tasks in a flowchart format. Settings from model generation to monitor screen creation can be performed with a single tool.

■ Improved traceability

AI introduction challenge

Ensuring traceability is difficult because different types of data are saved using separate tools.

With  **MELSOFT VIXIO**

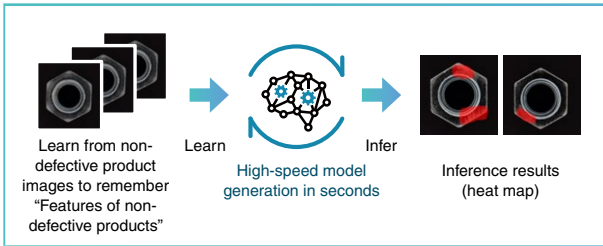
Inspection date/time, programmable controller data, captured image, and inspection results are automatically linked and saved together in a group, for easy traceability.

AI engine

Anomaly detection

Detect "Different from usual"

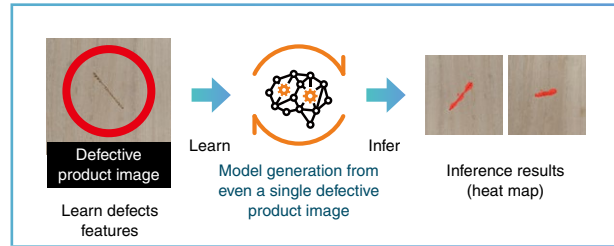
Even unexpected defects can be detected.



Defective point detection

Detect specific abnormality patterns

Detection of similar defects even in different locations or with different sizes is possible.



Easy system construction

Settings for communication with programmable controllers

Easy data exchange with various programmable controllers

Inspection monitor screen

A monitor screen can be created by arranging the display elements of multiple monitors in a dashboard format.

Setting the overall operation

Set the overall system configuration in a flowchart format.

Camera settings

GigE Vision® Area Scan Camera settings can be configured in the camera's various settings.

Automatic linking and traceability

Check screen after task execution



Data handled in inspection tasks can be easily linked and saved together in a batch.

Graph display



Inspection result history data can be graphically displayed and trends analyzed.

List display

The list display shows a table with columns for 'Name', 'Status', 'Production number (internal use only)', and 'Task completion'. It contains several rows of data.

Focus and view the data needed by filtering or searching saved data.



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• To use the products listed in this publication properly, always read the relevant manuals before use.

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