

What are the challenges to using AI visual inspection?

Issue Too much time creating AI models

Solution AI algorithm suited for FA

- Fast creation of AI model (<10sec).
- AI model requires minimal defective product images.

Issue Deep programming knowledge necessary

Solution Easy set up without programming

- Able to set up AI visual inspection without programming.
- Easily set-up camera and match PLC's data.

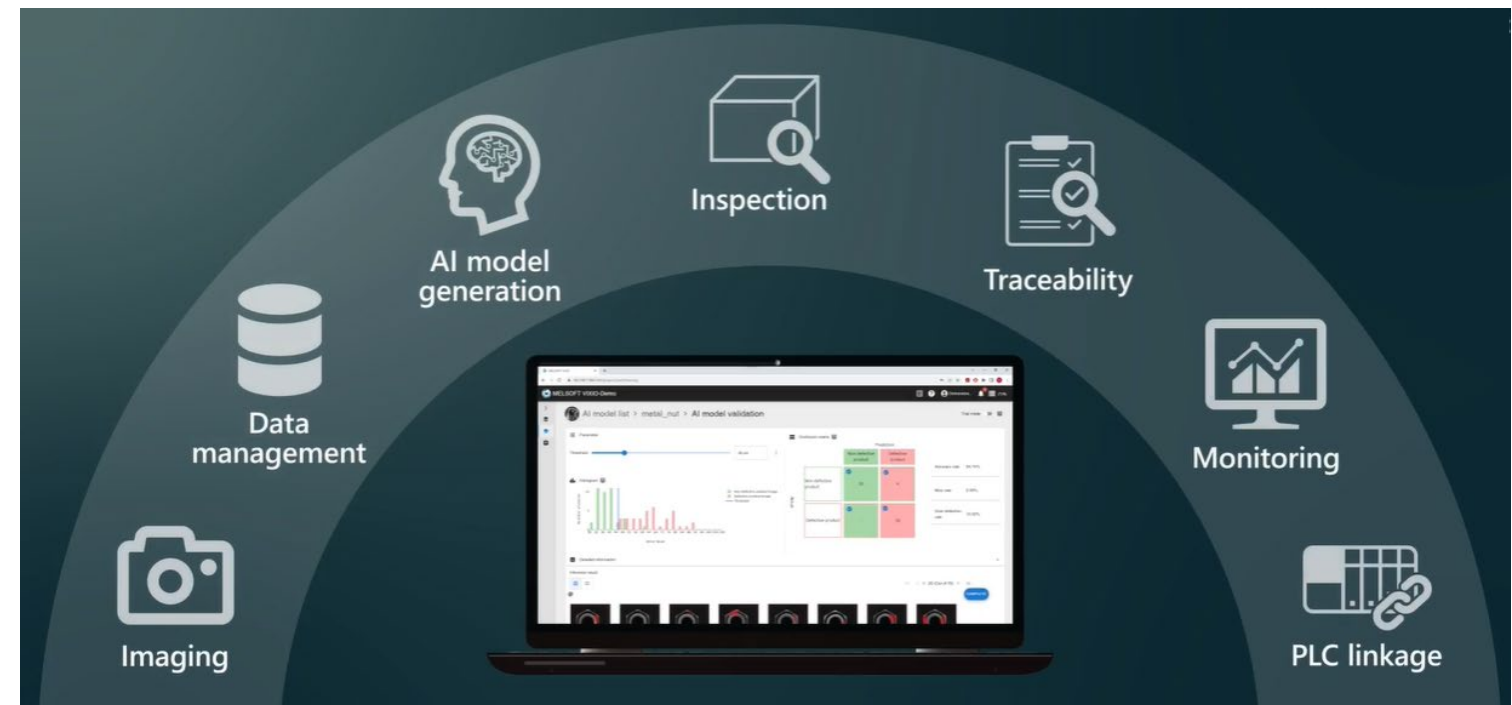
Issue Hard to set up traceability

Solution Link to inspection data automatically

- Link to inspection data e.g. date of manufacturing, images etc.
- Able to monitor inspection data results.

Product concept

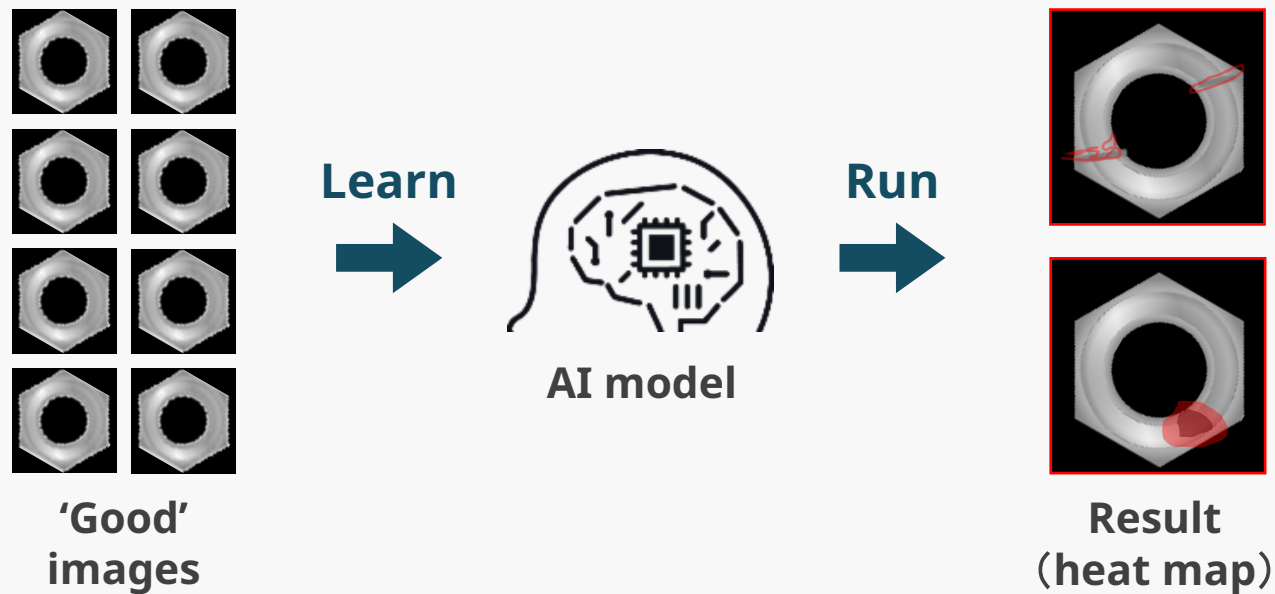
All the required functions for setting up AI visual inspection in one single tool



Detect abnormalities

Algorithm 1 Anomaly detection

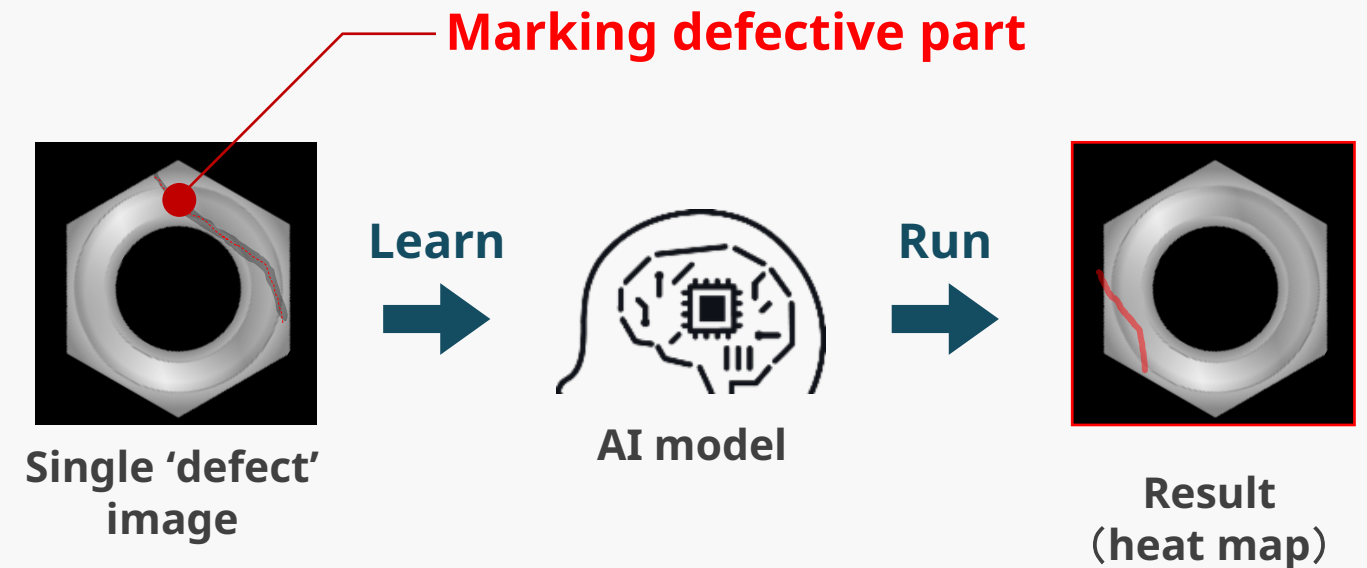
- AI models created in less than 10 seconds.
- Able to detect unexpected defects.



Detect specific defects

Algorithm 2 Detection of defective points

- Able to create AI models with only one 'defect' image.
- Able to detect similar types of defects.



Implement AI visual inspection without needing any programming

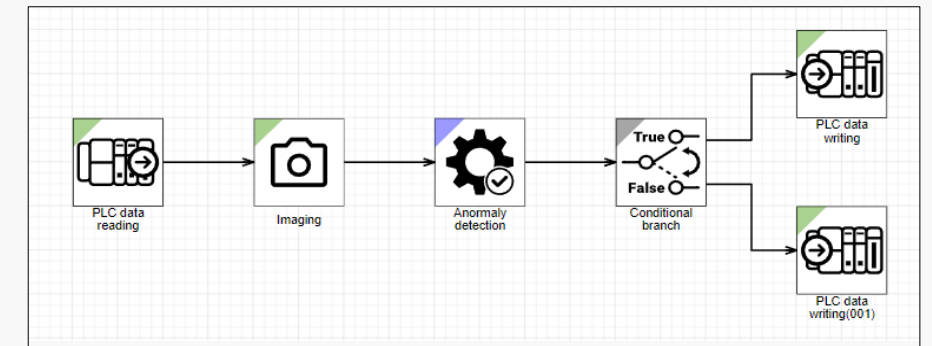
Benefit Easy monitoring and connection set up

- Set up the camera's target shot for monitoring, without the need for programming.
- Able to easily connect camera and PLC.

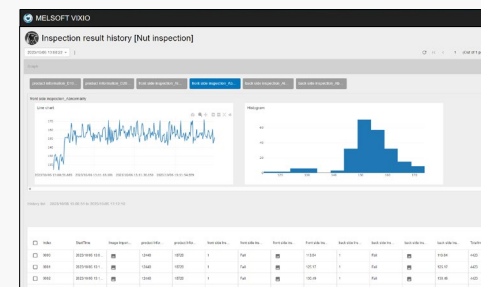


Benefit Linking to inspection data

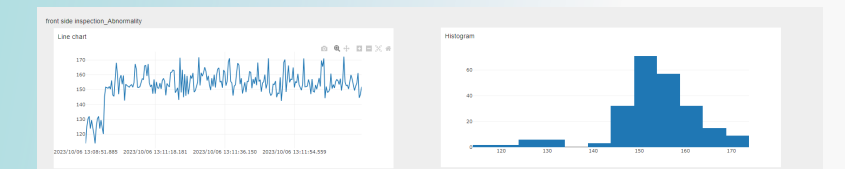
- Automatically link various inspection data and save it collectively.
- Monitor the inspection result.



Inspection monitoring



Graphical display



List display

Index	StartTime	Image import	product id	product info	front side ins.	front side ins.	front side ins.	front side ins.	back side ins.	back side ins.	back side ins.	back side ins.	TotalInsps
0000	2023/10/06 13:00:00	12440	18728	1	Fail	113.84	1	Fail	113.84	1	Fail	113.84	4423
0001	2023/10/06 13:11:00	12440	18728	1	Fail	125.17	1	Fail	125.17	1	Fail	125.17	4423
0002	2023/10/06 13:11:00	12440	18728	1	Fail	120.49	1	Fail	120.49	1	Fail	120.49	4423

Learn Collect images and create AI model

Run Inspection and monitoring

