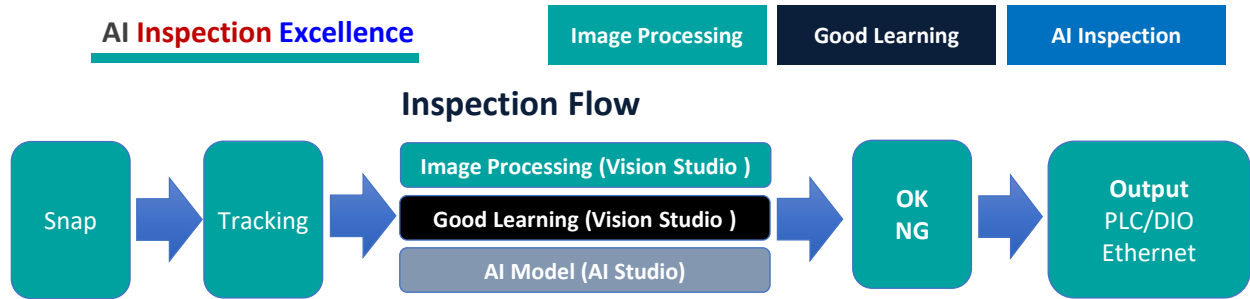
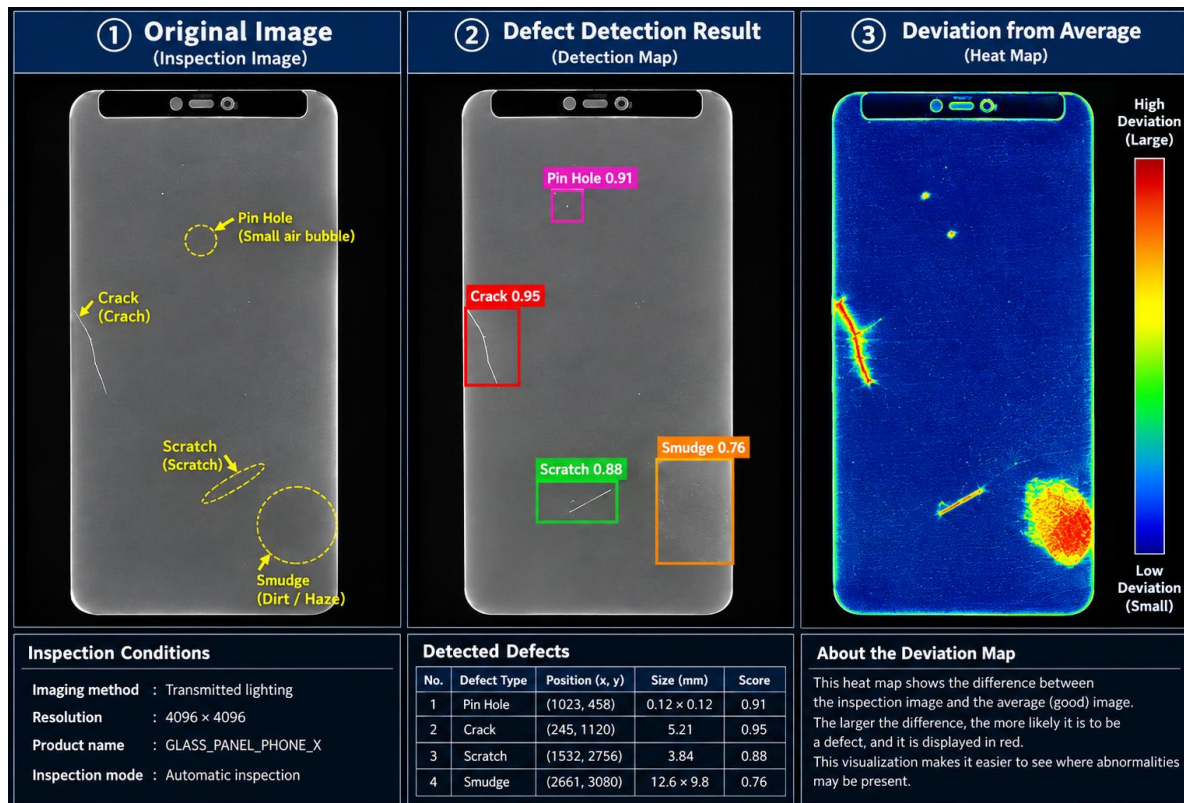


● AI InspeX (Image Processing, Good-Sample Learning & AI Visual Inspection)



- Perform inspection on a production line—including multi-camera inspection—with a single software package.



Inspection Modules

① Measurement & Detection with Image Processing

A: Defect Inspection

Detect dark and light defects using blob analysis. Determine NG based on area, count, and the merging of nearby blobs. Grayscale conversion, normalization, and area filtering improve robustness to uneven illumination.

B: Pattern Inspection

Compare histograms across four areas of a reference image. Quickly detect missing or different printing, labels, and patterns.

● Vision Studio

② Good-Sample Learning

Define inspection areas and borders, then learn the mean and deviation from good samples. Well suited to applications where defective samples are limited.

● Vision Studio

③ AI Inspection

Use a trained model to make OK/NG decisions.

● AI Studio

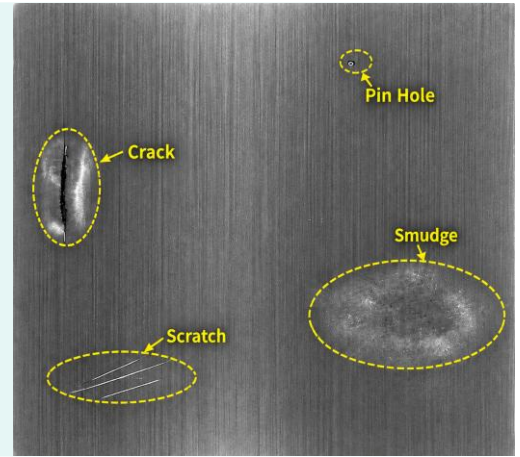
※ Save image-processing recipes and AI models for each product type. Switch between them by selecting from a list.

● Image Processing Inspection

Measure and detect using rules and thresholds

Defect Inspection: Blob detection of dark/light defects
 Pattern Inspection: Histogram comparison with reference
 Good Learning: Learn from variations on good samples
 Tracking: Positioning workpieces in X/Y using 2-4 reference points

Ideal for dimensional, missing-feature, pattern, and other inspections that can be defined by rules. Training: ● Vision Studio

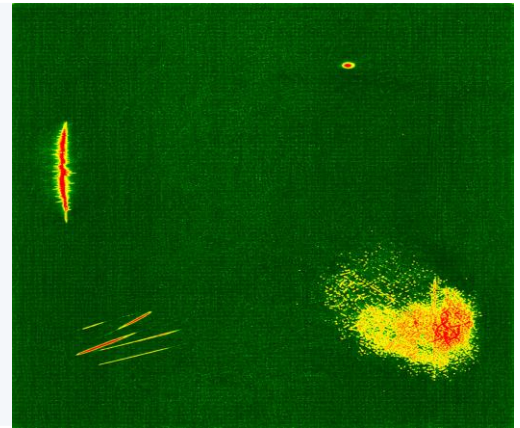


● AI Visual Inspection

Make decisions using trained AI models

Load: Load a model for each product type
 Inference: Determine class and score from captured images
 Decision: Output OK/NG in the same inspection flow
 Combined Use: Combine image processing and AI to suit the inspection task

Ideal for inspections with large visual variations that are difficult to define with rules. Training: ● AI Studio



Key Specifications

Product	AI InspeX (AI Inspection Excellence)
Application	Visual inspection for production lines (Image Processing / AI Inspection)
Image Processing	Defect Inspection / Pattern Inspection / Good-Sample Learning (Area / Edge) / Positioning
AI Inspection	Inference using trained models; OK/NG output within the same inspection flow as image processing
Positioning	X/Y edge search and tracking
Verification	Manual Inspection / Folder Verification
Inspection Output	OK / NG / Image Acquisition Error
Product Types	Up to 128 product types
Operating Modes	Windows 11 / Setup Mode / Inspection Mode

Specifications vary depending on the system configuration, cameras, models, and licenses. Please contact us for details.

Software Lineup

Studio Series		Inspection Series	
Development: Platforms		Inspection: Software	
MITECH AI Studio AI Development, Data, Training & Evaluation Platform	MITECH Vision Studio Image Processing Tools, Algorithm Development & Tuning Platform	MITECH AI InspeX AI Visual Inspection Software Image Processing & Good-Sample Learning	MITECH AI ScanX Image Processing & Good-Sample Learning Image Processing & Good-Sample Learning for NDT

Development Platforms → Inspection Software

Contact Us — Free Work Test & Demo Consultation

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