

WIZER DP DEEP LEARNING

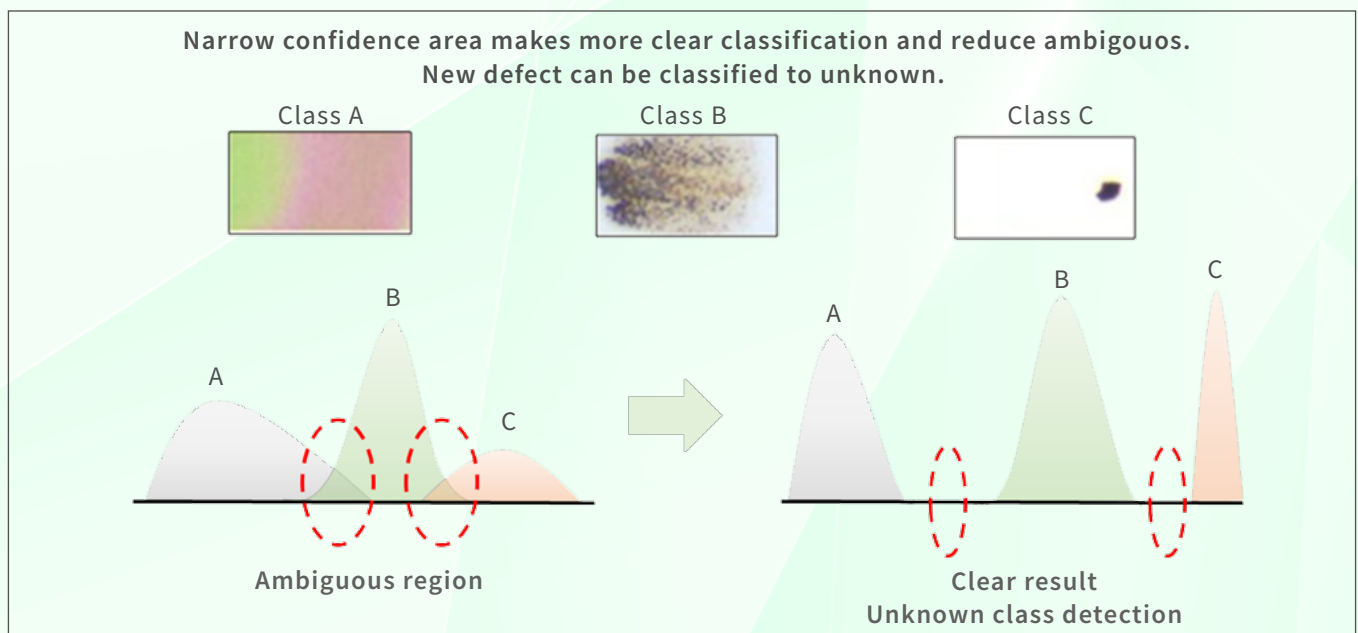


Wizer DP has AI 3 modules to meet to the market needs, and this includes Trainer, Detect & Classify. The Trainer module is needed to build up the recipe by training selected good images & different group of NG images. The Detect module is used to detect the defects on the production parts, and the Classify module is used to classify the defects type. The images can first be trained offline to build up the recipe for the inspection database. This recipe can be used for the actual inspection to detect & classify the defects accordingly.

Deep Learning Concept

The Wizer DP is to be able to train sufficient sample size of good parts, and “marking” the defects area on the NG parts. During the production, new group of NG parts can be marked & added to the existing database to improve the inspection capability. We has successfully provided solution for the hard drive, semiconductor, display & PCB industry.

It has been proven that deep learning will be able to recognize a defect even if the production parts has some different variation on the threshold or machining marks.



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Wizer DP Training Process in 3 Steps

Step 1: Image Acquisition

- o Minimum 30 images for each class
- o Every error class need separate images

Step 2: Learning

- o ImageGen™ generates 10 or 100 times images using realistic models

Step 3: Inference

- o Wizer DP uses trained data
- o If inspection condition is changed, retrain using pre-trained data

The **WIZER DP Trainer Module**, selection of good images and NG images for the software to learn. Robust result for target shape, size, colour.

Wizer AI Tools

Wizer DP
Trainer

Wizer DP
Detect

Wizer DP
Classify

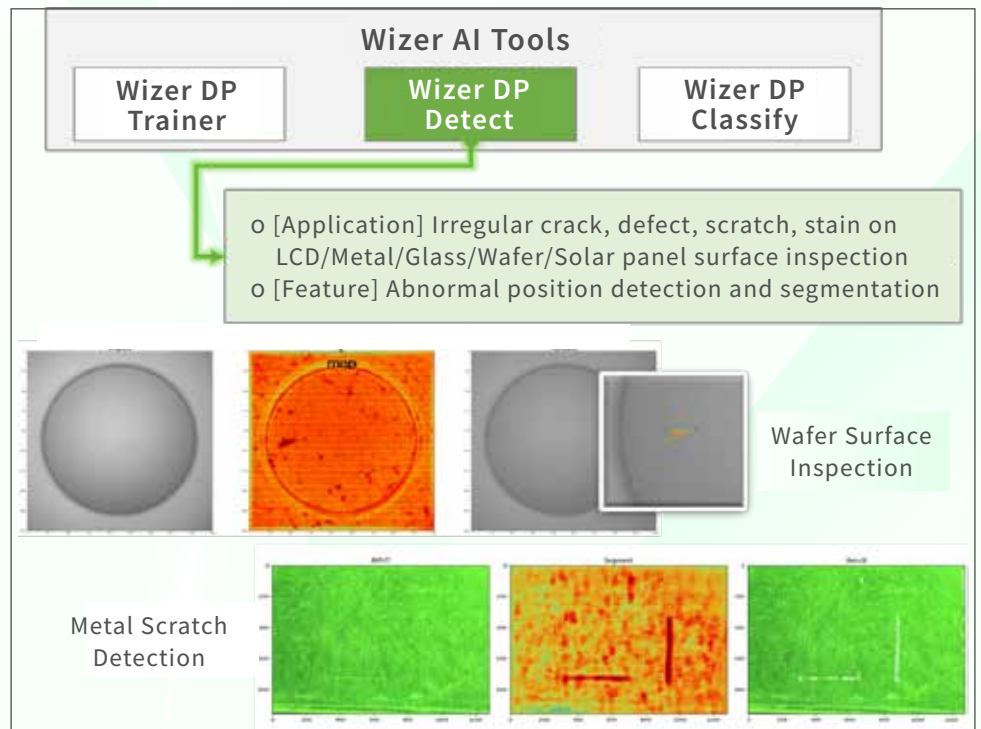
- o [Application] OK vs NG, NG type
 - o [Feature] Robust result for target shape, size, color
- Fastest deep learning inspection algorithm



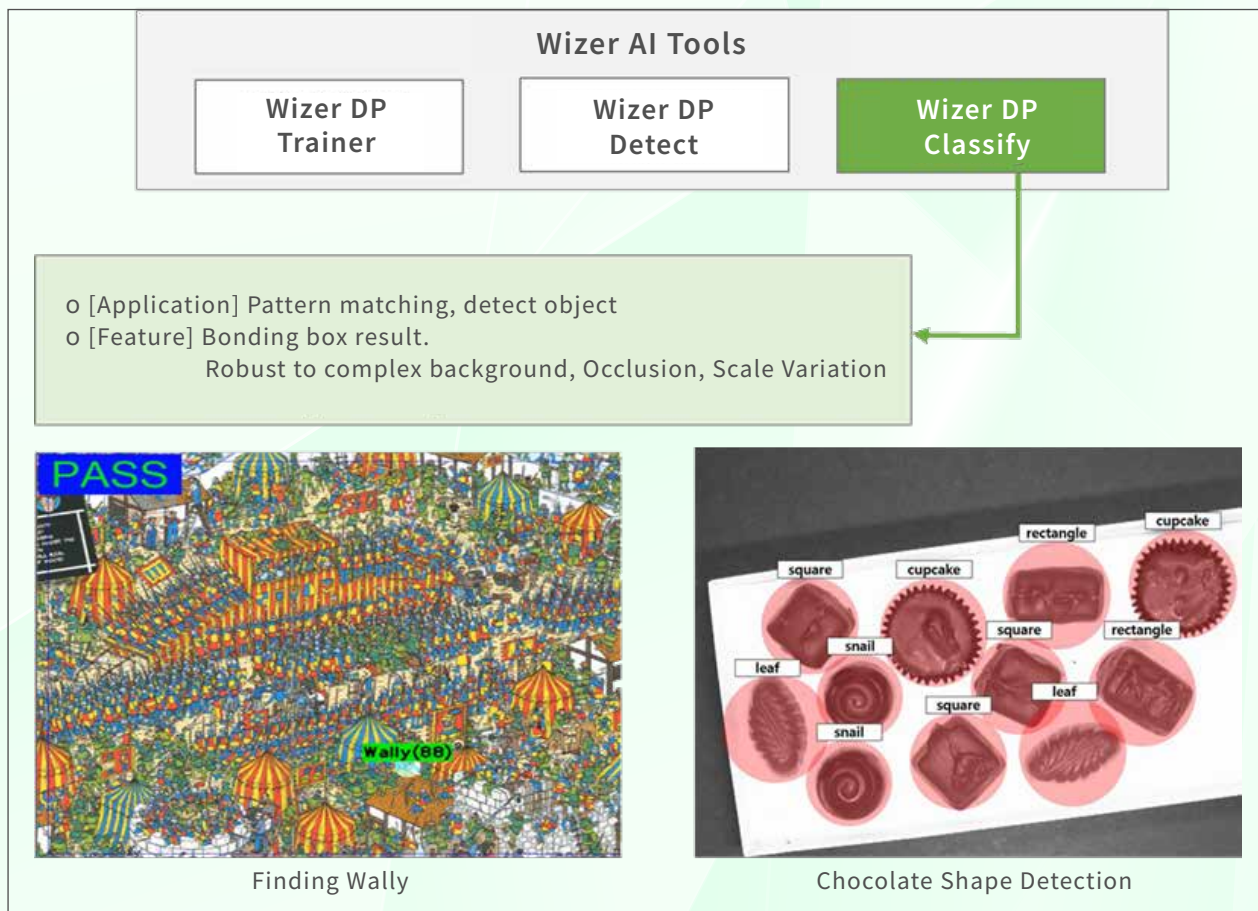
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The **WIZER DP Detect Module**, to detect the defects on the production parts like cracks, stains or scratches.

Abnormal position detection and segmentation.



The **WIZER DP Classify Module**, to classify the defect types. Robust to complex background, occlusion, scale variation etc.



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