



Taking the Excellence of Final Visual Inspection Systems to the global market.

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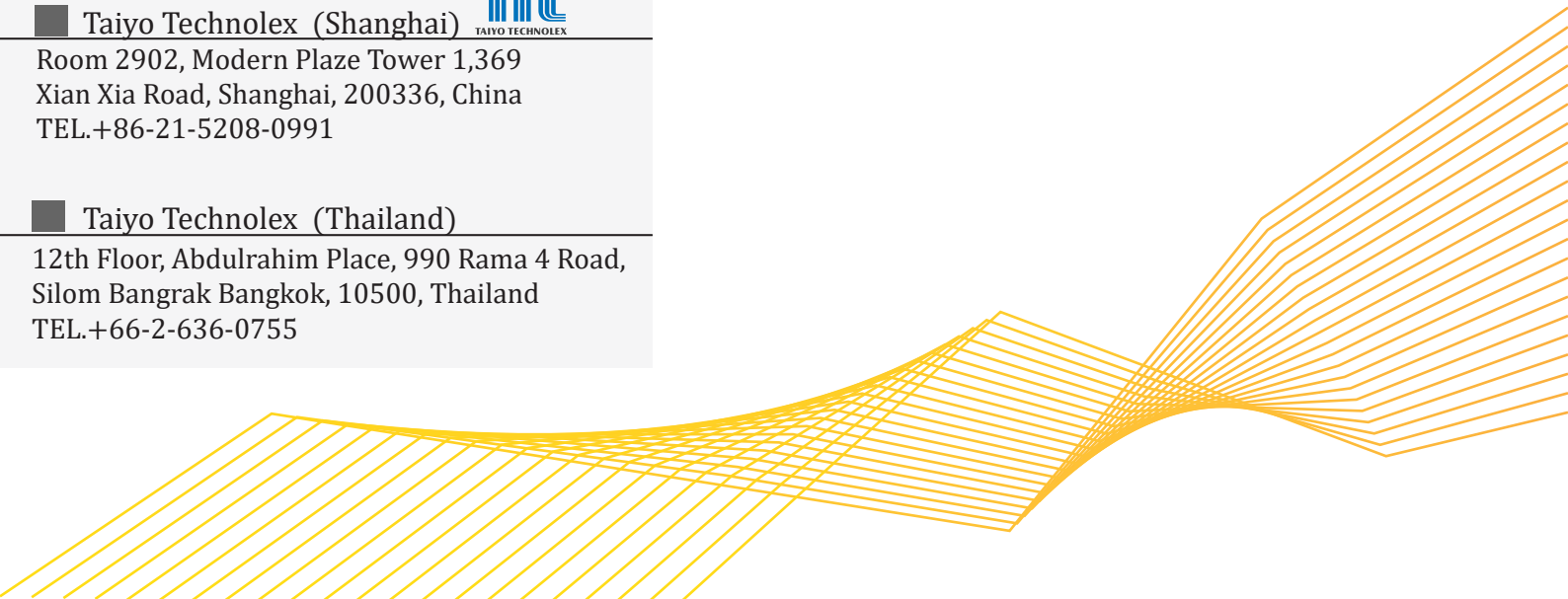
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Contact the Head Office for a free assessment.



A large yellow geometric shape is positioned in the top-left corner. To its right, a series of parallel orange lines form a pattern that resembles a stylized 'Y' or a series of stacked 'V' shapes, extending towards the top-right corner.

TAIYO

■ Advance to the Future

MANUAL



M105SC



M106SC



M107SC

Max. Size
Resolution

11" x 13"

10μm

14" x 24"

15μm

20" x 24"

15μm

AUTOMATIC



A307DC



A800DC

Max. Size
Resolution

10" x 12"

7,500 pixels • 10μm

10" x 12"

7,500 pixels • 15μm

VERIFY STATION



VS002



VS004

Max. Size
Features

11" x 13"

Microscope

10" x 13"

Microscope + Marking Function

AUTOMATIC FINAL VISUAL INSPECTION

This word has become common in the semi-conductor industry to define machines which inspect products on visual defects.

What is AFVI?

ADVANTAGES

ACCURACY

What makes TAIYO machines so different, is that it offers nothing but objectivity and consistency. With controllable inspection settings and advanced camera resolution, it provides two unachievable tasks in the current human inspection method.

REDUCE COST

While achieving accuracy, customers can cut cost in human labour. Inspection time usually depends on the size of a board, but most of TY-VISION machines can inspect within 30 seconds.

EFFICIENCY

With easy data management, customers can be assured to inspect more in less time. Since data from the machine can be analyzed and recorded, it also allows for long-term process improvements.

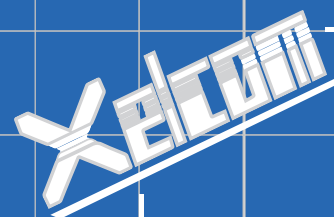
Introducing

TY-LABINS

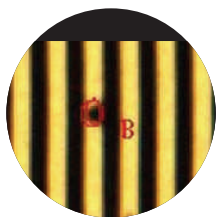
The self-developed image processing software on which all TY-VISION systems run. BY using RGB and HSV as base values, even the most difficult defects can be found with minimum false calls.

CCD•LINE SCAN CAMERA

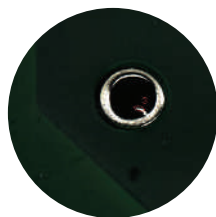
Cameras that are made in Japan, lenses that are made in Germany, resolutions down to 5µm monochrome, and 10µm color, Taiyo has long established a strong reputation for using high-end cameras with advanced features.



SAMPLE DEFECTS



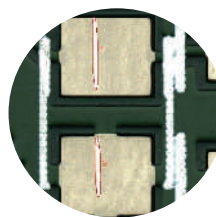
Holes



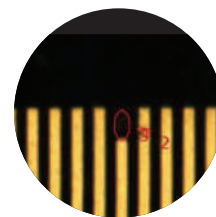
Nodules



Discoloration



Scratches



Fragments

System Product	Manual			Automatic	
	M105SC	M106SC	M107SC	A307DC	A800DC
Rigid PCB	○	○	○		○
Rigid-Flex PCB	○	○	○		○
FPC	○	○	○		-
HDI	○	○	○		○
IC/ Substrate	○	○	○		○
Aluminum	○	○	○		-
Ceramic Board	○	○	○		-
Touch panel	○	○	○		-

*○ inspection possible; - inspection not possible