

# SPEED Film 2D AOI

The system is the perfect solution for the 2D inspection of moist or dry soldering pastes and structures thanks to its innovative light technology. It is placed after the printing process and provides valuable information for the printer (Closed-Loop), which significantly contributes to optimizing the process.

NEW: inline 2D inspection of wet and dry pastes now available!

Of course, an individually adapted system structure shall be created to perfectly correspond with he respective requirements.



# <sup>вреер</sup> <sub>Up to</sub> 300 cm<sup>2</sup>/s

# ACCURACY

Up to 3 µm

Repeatability: grey values ± 1 µm @ 4 sigma, for each channel

### INSPECTION PERFORMANCE

Resolution	Speed
3 µm	10 cm²/s <b>NEW:</b> 25 cm²/s (2nd Cam)
7 µm	30 cm²/s
10 µm	80 cm²/s
12 µm	120 cm²/s
16 µm	180 cm²/s
18 µm	300 cm²/s

### ✓ High speed – up to 300 cm<sup>2</sup>/s

**CHARACTERISTICS** 

- Maximum accuracy up to 3 μm
- Sepeatability: grey values ± 1 μm @ 4 sigma, for each channel
- ☑ Intelligent algorithms preventing pseudo error occurrences
- **NEW:** All-Multilayer-Scan: multi-layer printing in one single inspection operation
- **NEW:** Layout correction via Correction Fiducials
- ☑ NEW: High Speed Option: Extended multi-camera system

### SYSTEM MODELS

- > Inline
- > Offline
- Integration in existing system (e.g. handling system, printer, etc.)
- Also available as table-top system with fully automatic handling for small products (macCube: mini automation cell)
- LEAN production cell

# OPTIONS

- > Offline programming unit
- Good-bad functions
- > Testing unit
- > Bar code reader
- > Electrical width setup
- > Flat Conveyor belt drive
- > Round belt drive
- > MES system communication
- > CSV export

# LIGHTING

- > Diffusion light evenly lit image
- > Top light highlights structural changes
- Bottom light provides contrast
- Laser beam inline measurement of the layer thickness

### PASTE

- > Not enough soldering paste
- > Too much soldering paste
- > Soldering paste missing
- Bridge / short circuit
- > Smeared paste
- > Dust / contamination
- Incorrect paste form

# PRINT

- > Area
- Print shift
- X / Y-offset

**Transport height** 

**Transport width** 

Layout analysis

Rotation	
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> Incorrect form

850 mm - 950 mm ± 50 mm

max. 460 mm

> Area analysis

BASE SIZE		
Length	70 – 460 mm	
Width	50 – 460 mm	
Thickness	0,8 – 4 mm	
Weight	up to 3 kg	
Component space	± 30 mm at the top, 60 mm at the bottom (excluding clearance)	

# INSTALLATION REQUIREMENTS

Power supply	230 V / 115 V, 50 / 60 Hz, $\pm$ 10 %
Electrical network	L1 + N + PE
Power input	2.0 kW
Compressed air connection	6 bar
Air consumption	<12 Nl/min

Interface	SMEMA, Siemens		
Transfer direction	left to right, right to left, bidirectional		
Operating side	front		
Fixed rail	front		
MACHINE DESCRIPTION			

SYSTEM CONFIGURATION

MACHINE DESCRIPTION				
	2 segments	3 segments		
L x W x H	800 x 800 x 1800 mm	1200 x 800 x 1800 mm		
Netto weight	approx. 300 kg	approx. 350 kg		
Color	Basic Light	Basic Light		
Noise level	< 75 dB	< 75 dB		



All sources are being checked – no loss of speed, with all details.



Our modular concept makes it possible to individually combine random options, for example, product resolution, speed and size.



Our promise of quality: accurate laboratory measurements, now available for your manufacturing process.



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