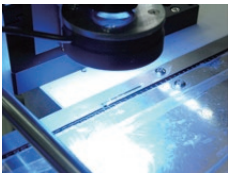


AOI Series

Optical Inspection Check System

www.dediprogram.com

Inspect the tiny details of the IC



DediProg provides various types of automatic optical inspection systems. Integrating one of these systems with DediProg's automated programming system allows easy examination of IC conditions during programming, either from the top or bottom, in 2D or 3D.

Advantages of 2D Inspection:

1. Cost-effective
2. High speed
3. Flexible inspection capabilities

Advantages of 3D Systems:

1. True co-planarity inspection capability
2. Low inspection false rate

2D inspection

AOI-632

- Mark Inspection- error, wrong direction, marking area, or no labels.

ANS-640-B

- Package Inspection- package size, big chipping, chip crack (0.1x0.1mm), scratch, dirt, fall off, broken, or blurred.
- Leadscan- skew, total length, pin pitch, or bent pins.
- Ball Inspection- dirt between, void, pin count, ball missing, ball size roundness, defect, bend, different height, area, pitch, offsets, diameter, or circumference of the ball.

3D Inspection Solution

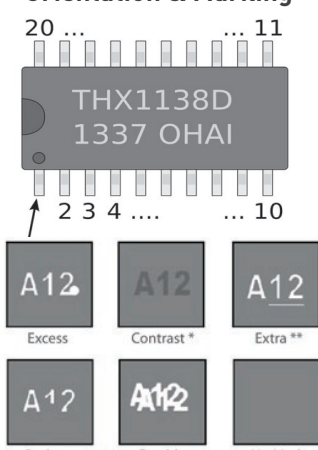
ANS-680 / ANS-681

- Support Leaded, QFN and BGA type.
- Stereo Vision Imaging Technology.
- 200+ standard Device library for easy setting parameter.
- Lifted pins and coplanarity inspection.
- Auto self-calibration.

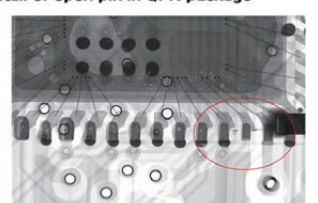
ANS-690

- Automatic Task Switching.
- Automatic BGA Search and Quick Setup.
- Stable lead output: no need to adjust exposure based on lead gloss.
- Lifted pins and coplanarity inspection.
- Support Asymmetric Leads (SOT 2X3)
- Support CSP BGA type inspection.

Orientation & Marking



Detail of open pin in QFN package



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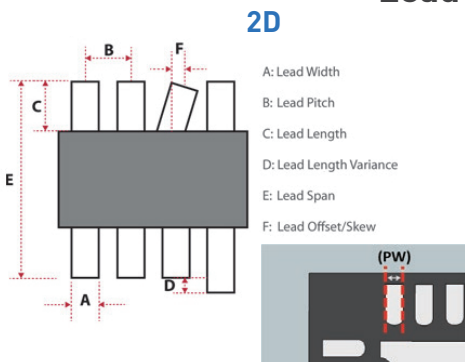
Mexico
E/ america@dediprogram.com



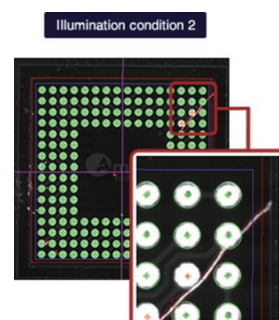
Specification

Model	A0I-632	ANS-640-B	ANS-680	ANS-681	ANS-690
View (mm)	32x24	28x22	50x50	45x35	30x30
Exposure Control	✗	✗	Flash LED Control ✓	Exposure Time ✓	✓
Image Capturing	Top	Bottom	Bottom	Bottom	Bottom
Leads can	✗	✓	✓	✓	✓
Mark Inspection	✓	✗	✗	✗	✗
Package Inspection	✗	✓	✓	✗	✓
Ball Inspection	✗	✓	✓	✓	✓
Supported Packages	All (Except for the CSP that has glossy surface)	BGA, CSP, QFN, SOP, QFP	QFN, SOP, QFP, BGA	QFN, SOP, QFP, BGA	BGA, CSP, SOP, QFP
Installation	on DP600 Reel out position or AutoTray-350 tray out position	on handler	on handler	on handler	on handler
Auto Self-Calibration	✗	✗	✗	✓	✗

Lead Scan



Chip Crack



Ball Inspection

