

automatic optical inspection

NSpec

NSPEC SERIES FEATURES

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| <ul style="list-style-type: none"> ● High speed digital full color CCD camera ● On the fly zoom ● Less than 1 minute scan time on most parts ● High throughput ● Automatic recognition of each side ● Typical Programming time approx. 1 -2 hours | <ul style="list-style-type: none"> ● Accurate results ● Simple programming ● Very low false alarm rate ● Network ready ● Unified software architecture ● Up to 12 alternate masters per inspection point |
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NSpec F Series

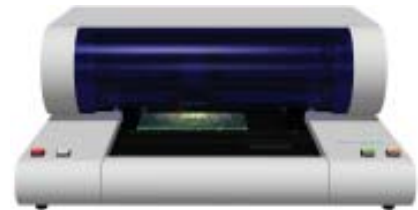
Model	Type	Maximum Inspection Area
NSpecF14	Tabletop	9.8 x 13.75"
NSpecF18	Tabletop	13.75 x 17.8"
NSpecF24	Tabletop	24 x 24"
NSpec LineaF14	In-Line	9.8 x 13.75"
NSpec LineaF20	In-Line	18.1 x 20.5"



	Chip CR1006	Melf	Diode	Transistor	SOP/QFP /Connector	Axial Chip	Radial	DIP IC	DIP Switch	2D Paste Inspection	
Missing components	●	●	●	●	●	●	●	●	●		● Measurable
Polarity		●	●	●	●	●	○	●	●		○ Measurable depending on conditions
Offset	●	●	○	●	○						
Bridges				●	●						
Other									on/off	●	

NSpec Fv Series

Model	Type	Maximum Inspection Area
NSpecFv14	Tabletop	9.8 x 13.75"
NSpecFv18	Tabletop	13.75 x 17.8"
NSpec LineaFv14	In-Line	9.8 x 13.75"
NSpec LineaFv20	In-Line	18.1 x 20.5"



	Chip CR1006	Melf	Diode	Transistor	SOP/QFP /Connector	Axial Chip	Radial	DIP IC	DIP Switch	2D Paste Inspection	
Missing components	●	●	●	●	●	●	●	●	●		● Measurable
Polarity		●	●	●	●	●	○	●	●		○ Measurable depending on conditions
Offset	●	●	○	●	○						
Bridges				●	●						
Other									on/off	●	
Solder Fillet	●	●	●	●	●			●			

NSPEC AOI SYSTEMS OPTIONS

ALL SYSTEMS

Hardware Options

50mm Clearance-F Series
 40mm Clearance for Fv Series
 (under development)
 Machine base w/Keyboard drawer
 Additional training
 Uninterruptible Power Supply

Off-line Options

CircuitCam w/Module
 CircuitCam Module
 NVision I Line Control, Monitoring
 & NVerify Software
 NVerify I Verification Software
 (PC Based Verification)
 NVision II Line Control, Monitoring & NVerify II
 Verification Station
 NVerify II Verification/Repair Station

Hardware Options for NSpec Linea

Conveyor Direction -Left to Right	PCB Lift Plate
LED Lighting	Positioning Pin Fixture Modification
Marker (1 color)	Beam Sensor
Marker (8 colors)	Defect Marking Unit
Panel Sorter Module (under development)	Marker (Bold, 2.0 Black 5 pcs.)
	Marker (Bold, 4.0 Black 5 pcs.)

