

BF-Sirius

Automated Optical Inspection System

Benchtop High Resolution, High Speed



High Resolution Optical System

With a superior resolution of 18 μ m and a scanning line color CCD camera, the BF-sirius provide accurate and stable inspection results. Solder fillets on components as small as the high density mounted 0201 (0603) chip, as well as IC's with 0.4 mm pitch lead are easily inspected and analyzed.

High Throughput

BF-Sirius has Saki's original alternate scanning system that captures several lighting images in one scanning. Newly developed color capturing system enable to make scanning speed twice faster than previous model. BF-Sirius takes only 10 seconds to capture L-size board (460 mm x 500 mm). Overall tact time including inspection also become shortened dramatically.

New Interface

Renewed user interface makes it easier to set up inspection data by using pre-installed Saki standard library. And optional new function KPK, that finds out the difference between surface of the board and the surface of component automatically, simplifies to detect missing component. This realizes time reduction for inspection data making at launching production.

Advantage of Line Scan Visual Inspection

Extra components on the board can be detected only by setting up one inspection window on the whole board. It is realized by the advantage of line scan method.

Coaxial Overhead Light

Soldering condition is inspected by illuminant irradiation of coaxial overhead lighting. Inspection is not affected by shadowing by neighboring tall components, therefore same library is available at any location on the board.

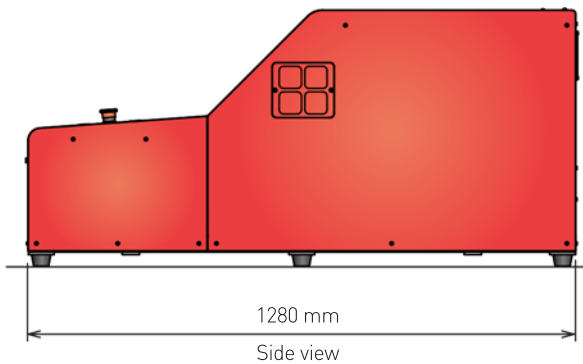
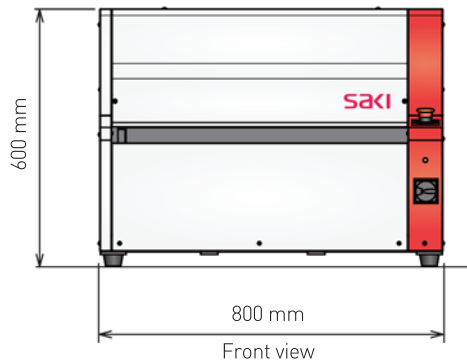
Flexibility

BF-Sirius has 40 mm clearance at the top side of the board and 60 mm at the bottom side. It enables most of the PCBs with tall components. In addition, BF-Sirius can be used in any stage of the PCB production process from post-print, post-mounter, and post-flow / reflow, or manual mounting.

Traceability

Optional function of BF-Sirius can read all types of barcode and 2D code on the board. Inspection output is reported with code number. It enables easy SPC data handling and log data management on manufacturing lines.

Dimensions



BF-Sirius

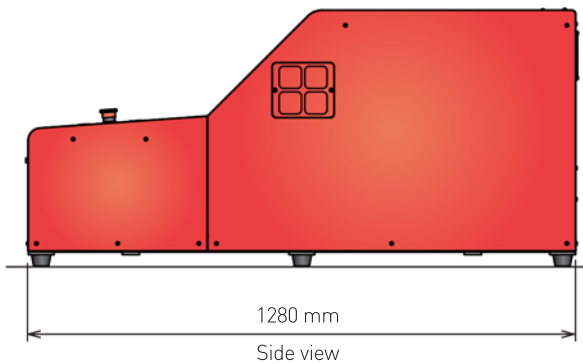
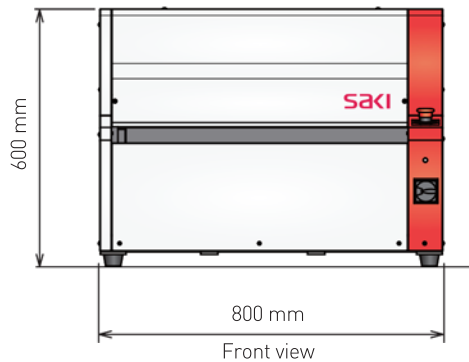
Resolution	18 µm
Board Size	50 x 50 - 500 x 460 mm
Board Thickness	0.6 - 2.5 mm, 24 - 100 mils
Board Warp	+/-2 mm, 79 mils
PCB Clearance	Top: 40 mm, Bottom: 60 mm
Rotated Component Support	Available for 0 - 359° rotation (unit of 1°)
Inspection Categories	Presence / absence, misalignment, tombstone, reverse, polarity, bridge, foreign material, absence of solder, insufficient solder, lifted lead, lifted chip, and fillet defect. Each defect name can be changed freely by system function.
Tact time *1 *2 (460 x 500 mm)	Approx. 18 sec.
Image Scanning Time *1 (460 x 500 mm)	Approx. 10 sec.
Camera (Image Processing)	Line color CCD camera
Lighting	LED lighting system
Operating System	Windows XP english version
Optional System	BF-editor / BF-RP1 / BF-view
Optional	2D Barcode recognition, journal printer, OK / NG signal out
	External control box

*1 If PCB size is smaller than 460 x 500 mm, Image scanning time will be shorter than these values. *2 Including image scanning time.

Installation Specifications

Electric power requirement	Single phase ~100 - 120 V / 200 - 240 V +/-10%, 50/60 Hz
Power consumption	700 VA
Air requirement	Not needed
Usage environment	15°C (59F) - 30°C (86F)/15 - 80% RH (Non-condensing)
Noise level	60.5 dB
Dimensions (mainbody)	800 (W) x 1280 (D) x 600 (H) mm
Weight (main body)	Approx. 175 kg, 386 lbs

Dimensions



BF-Sirius

Resolution	18 µm
Board Size	50 x 50 - 500 x 460 mm
Board Thickness	0.6 - 2.5 mm, 24 - 100 mils
Board Warp	+/-2 mm, 79 mils
PCB Clearance	Top: 40 mm, Bottom: 60 mm
Rotated Component Support	Available for 0 - 359° rotation (unit of 1°)
Inspection Categories	Presence / absence, misalignment, tombstone, reverse, polarity, bridge, foreign material, absence of solder, insufficient solder, lifted lead, lifted chip, and fillet defect. Each defect name can be changed freely by system function.
Tact time *1 *2 (460 x 500 mm)	Approx. 18 sec.
Image Scanning Time *1 (460 x 500 mm)	Approx. 10 sec.
Camera (Image Processing)	Line color CCD camera
Lighting	LED lighting system
Operating System	Windows XP english version
Optional System	BF-editor / BF-RP1 / BF-view
Optional	2D Barcode recognition, journal printer, OK / NG signal out
	External control box

*1 If PCB size is smaller than 460 x 500 mm, Image scanning time will be shorter than these values. *2 Including image scanning time.

Installation Specifications

Electric Power Requirement	Single phase ~100 - 120 V / 200 - 240 V +/-10%, 50/60 Hz
Power Consumption	700 VA
Air Requirement	Not needed
Usage Environment	15°C (59F) - 30°C (86F)/15 - 80% RH (Non-condensing)
Noise Level	60.5 dB
Dimensions (Mainbody)	800 (W) x 1280 (D) x 600 (H) mm
Weight (Main Body)	Approx. 175 kg, 386 lbs



The Latest Technology,
Excellent Customer Support,
Your Perfect Solutions Partner...



www.sinerji.academy



www.globalservice.center



www.sinerji-vass.com



www.sinerji-technology.center

Address: Oruç Reis Mah. Barbaros Cad. Giyimkent Sitesi 5. Sokak No: 85 (D5-B46-85) Atışalanı 34235 Esenler - İstanbul / TURKEY

Phone: +90 212 438 28 81

Fax: +90 212 438 28 15

E-mail: info@sinerji-grup.com

Web: www.sinerji-grup.com