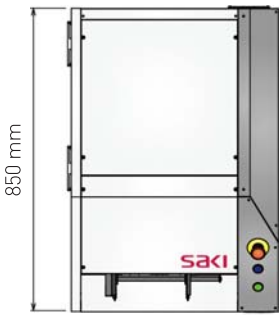


Automated Optical Inspection System

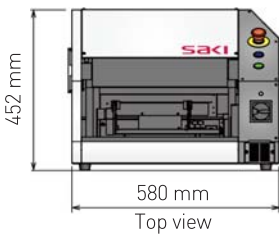
Benchtop High Resolution, High Speed

BF-Comet 18 BF-Comet c

saki
The Future in Focus

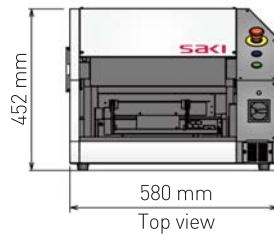


Top view



Top view

Side view



Top view

Side view

MODEL **BF-Comet 18**

MODEL **BF-Comet c**

Line-Ups for Flexible Use

Saki new desktop AOI, BF-Comet18 and BF-Comet-c are designed for high volume manufacturing with 0201(0603). Both models have 18 µm resolution and newly designed LED lighting unit that enables highest throughput of PCBA inspection.

High Throughput

BF-Comet has Saki's original alternate scanning system that captures several lighting images in one scanning. Newly developed color capturing system enable to scan only 7 seconds by BF-Comet18 and 14 seconds by BF-Comet-c (M-size board (250 mm x 330 mm)).

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-Comet has 40mm clearance at the top side of the board and 60mm at the bottom side. It enables most of the PCBs with tall components. In addition, BF-Comet 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-Comet 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.

Specifications

Model	BF-COMET 18	BF-COMET - c
Resolution	18 µm	18 µm
Board size	50 x 50 - 330 x 250 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 (250 x 330 mm)	Approx. 13 sec.	Approx. 20 sec.
Image scanning time *1 (250 x 330 mm)	Approx. 7 sec.	Approx. 14 sec.
Camera	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	
Optional for BF-Comet 18	External control box	

*1 If PCB size is smaller than 250 x 330 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	400 VA	300 VA
Air requirement	Not needed	
Usage environment	15°C (59F) - 30°C (86F) /15 - 80% RH (Non-condensing)	
Noise level	56.5 dB	
Dimensions W x D x H (mainbody)	580 x 850 x 452 mm	
Weight (main body)	Approx. 80 kg, 177 lbs	Approx. 80 kg, 177 lbs