

## Benchtop High Resolution, High Speed Automated Optical Inspection System

# BF-Comet-c

### Line-Ups for Flexible Use

Saki new benchtop AOI, BF-Comet-c are designed for high volume manufacturing with 0201(0603). BF-Comet-c have 18 $\mu$ m resolution and newly designed LED lighting unit that enables highest throughput of PCBA inspection.

### High Throughput

BF-Comet-c has Saki's original alternate scanning system that captures several lighting images in one scanning. Newly developed color capturing system enable to scan only 14 seconds (M-size board [250mm  $\times$  330mm]).

### 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-c 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-c can be used in any stage of the PCB production process from post-print, post-mounter, and post-flow / re-flow, or manual mounting.

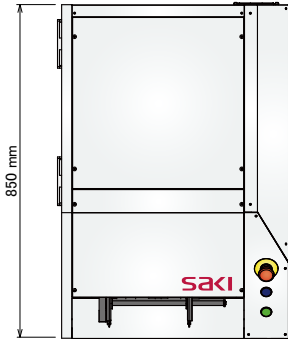
### Traceability

Optional function of BF-Comet-c 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.

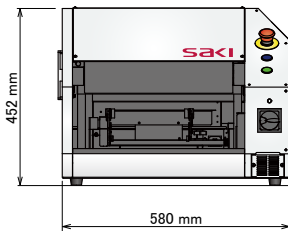


**Dimensions**

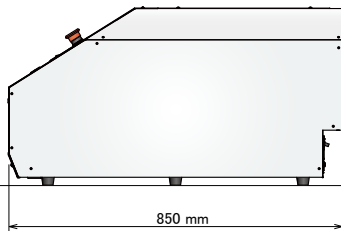
■ BF-Comet-c



Top View



Front View



Side View

**System Specifications**

Model	BF-Comet-c
Resolution	18μm
Board Size	50×50 - 250×330mm, 2×2 - 10×13in.
Board Thickness	0.6 - 2.5mm, 24 - 100mils
Board Warp	+/-2mm, 79mils
PCB Clearance	Top: 40mm, 1.57in. Bottom: 60mm, 2.36in.
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 (250×330mm)	Approx. 20sec.
Image Scanning Time*1 (250×330mm)	Approx. 14sec.
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 for BF-Comet-c	External Control Box

\*1 If PCB size is smaller than 250x330mm, Image scanning time will be shorter than these values.  
 \*2 Including Image Scanning Time.

**Installation Specifications**

Electric Power Requirement	Single Phase ~100 - 120V / 200 - 240V +/-10%, 50/60Hz
Power Consumption	300VA
Air Requirement	Not needed
Usage Environment	15°C(59F) - 30°C(86F) / 15 - 80%RH (Non-condensing)
Noise Level	56.5dB
Dimensions W x D x H (Main body)	580 × 850 × 452mm, 22.84 × 33.47 × 17.80in.
Weight (Main body)	Approx. 80 Kg, 177lbs

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