

KIS-8000

Keyboard Inspection System

Detect misplaced or missing keys on a keyboard, dirt on key-tops, chipped characters, and invalid placement of characters!!

As diversification in keyboard designing proceeds, visual inspection of products increases its importance. KIS-8000 automates that inspection for all keyboard types.

■ Enables further stability by color image processing

KIS-8000 can detect not only misplaced or missing keys but also dirt on key-tops, chipped characters, and invalid placement of characters by comparing with the regular image. Moreover, color image processing enables stable inspection for keyboards of difficult color combination, such as green characters on gray background.

■ Inspects a Japanese full keyboard within 5 or less seconds

KIS-8000 can reduce the inspection time greatly, by being incorporated in an automation line and by batch processing.

□ Inspects top and front characters at the same time.

Images of top and front characters on keys can be input and inspected simultaneously. Keyboards that have two or more characters on one key-top, such as notebook PC keyboard, can be handled.

□ Supports many types of keyboards by easy teaching operation

The teaching function allows inspection of many types of keyboards. You can easily perform it with a mouse while watching the display.

□ Provides plain and informative results

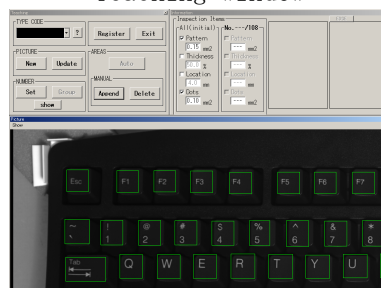
KIS-8000 displays the whole image of the keyboard inspected, so you can identify the error easily.

* Delivery record: 39 systems (as of July, 2004)

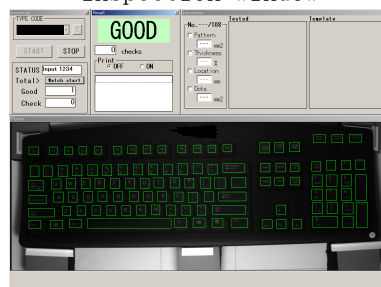
* The photographs of KIS-7000 are used below.



Teaching Window



Inspection Window



Item		Specification
Input	Object	Keyboard
	Inspection Area	540mm(Width) x 200mm(Length)
	Scan Method	Mechanical scanning
	Image Size	5400pixel(Width) x 2000pixel(Length)
	Starter	Button Switch, Foot Switch
Output	Display	Color LCD monitor
	Result	GOOD/NG lamp, printing (optional)
Processing Time	Input	3sec
	Judgment	Less than 2sec (at 100 key-tops)
Inspection	Method	Similarity judgment by pattern-matching method
	Items	Misplaced or missing keys, dirt on key-tops, chipped characters, and invalid placement of characters
Data Storage	Device	Hard Disk Drive
	Capacity	About 1200 kinds in standard composition (40GBytes)
Power Supply	Voltage	Single-phase 220V 50Hz/60Hz AC100V is provided as an option.
	Consumption	2KW/h (max)
Physical Characteristics	Dimensions	950mm(W) x 750mm(D) x 1650mm(H) The projection part is not included.
	Weight	200Kg
Condition	Temperature	50F - 95F
	Humidity	20% - 80% (non-condensing)

These specifications might be changed without any announcement in advance.

Develop and Market: Nippon Control System Corporation

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