Plain-Surface Quality Inspection System

Mujiken\textsuperscript{+} Type S

The Mujiken\textsuperscript{+} series—for fast, consistent inspection
Offers a good choice of functions. Meets a wide range of needs

Ideal for the inspection of production lines of films
(used as industrial materials or for food applications)

Makes high-speed scans of the surface of a continuously moving web and detects quality control problems such as dirt, foreign matter, scratches, wrinkles and pinholes. Helps prevent the flow of defects through the manufacturing process. You can also expect a better yield because you will be able to find the causes of defects in your production line.

The Type S has retained the Mujiken\textsuperscript{+} series' inspection functions, and offers an excellent choice of functions, simple operation, and a compact body. Also supports a color camera.
Example of inspection by sensor

Example of system structure

Schematic diagram of Mujiken™ Type S control panel components and peripherals

Control panel

Monitor

Monitor*

Monitor

Viewer*

Remote control unit*

PLC*

Main processor

Signal distribution

HUB

Printer

Power supply

* Optional

No. of cameras | Max. 8
---|---
Input systems

Schematic diagram of Mujiken™ Type S control panel components and peripherals

No. of cameras | Max. 8
---|---
Input systems

Sensor

Monochrome

16,384 pixels 220 MHz (Max. 10 bit)

8,192 pixels 320 MHz (10bit, MAX12bit)

8,192 pixels 160 MHz (10bit, MAX12bit)

4,096 pixels 160 MHz (10bit, MAX12bit)

4,096 pixels 160 MHz (10bit, MAX12bit)

2,048 pixels 160 MHz (10bit, MAX12bit)

Color

8,192 pixels 160 MHz (8 bit)

8,192 pixels 160 MHz (8 bit)

8,192 pixels 80 MHz (8 bit)

4,096 pixels 160 MHz (8 bit)

4,096 pixels 160 MHz (8 bit)

4,096 pixels 80 MHz (8 bit)

Mujiken™ Type S specifications

Scanning

Automatic correction to maintain the image density at a constant level (AGLC)

Shading compensation (offset, automatic tracking correction)

Binary detection, multi-level detection, color detection (RGB system, IHP system)

Detect detection

Foreign objects (point-like marks, streaks, bubbles)

Scratches (continuous, discontinuous)

Color changes (localized, wide-area)

Stains (monochrome, pale spots), etc.

Scanning function

Real-time display of scanning conditions

Map display, inspection data display

Overall control, instructions for starting/stopping inspection, etc.

OS

Windows 7 Embedded 64bit

Monitor(s)

Supports one or two screens

NIRECO and the NIRECO logo are trademarks or registered trademarks of Nireco Corporation in Japan.

The details contained in this catalog are subject to change without notice. Please contact us at the following address when considering a purchase.

Web Site http://www.nireco.com  E-Mail info-kensa@nireco.co.jp

NIRECO CORPORATION

● Hachioji Office

2951-4, Ishikawa-machi, Hachioji, Tokyo, 192-8522, Japan


April 2015 TP Printed in Japan