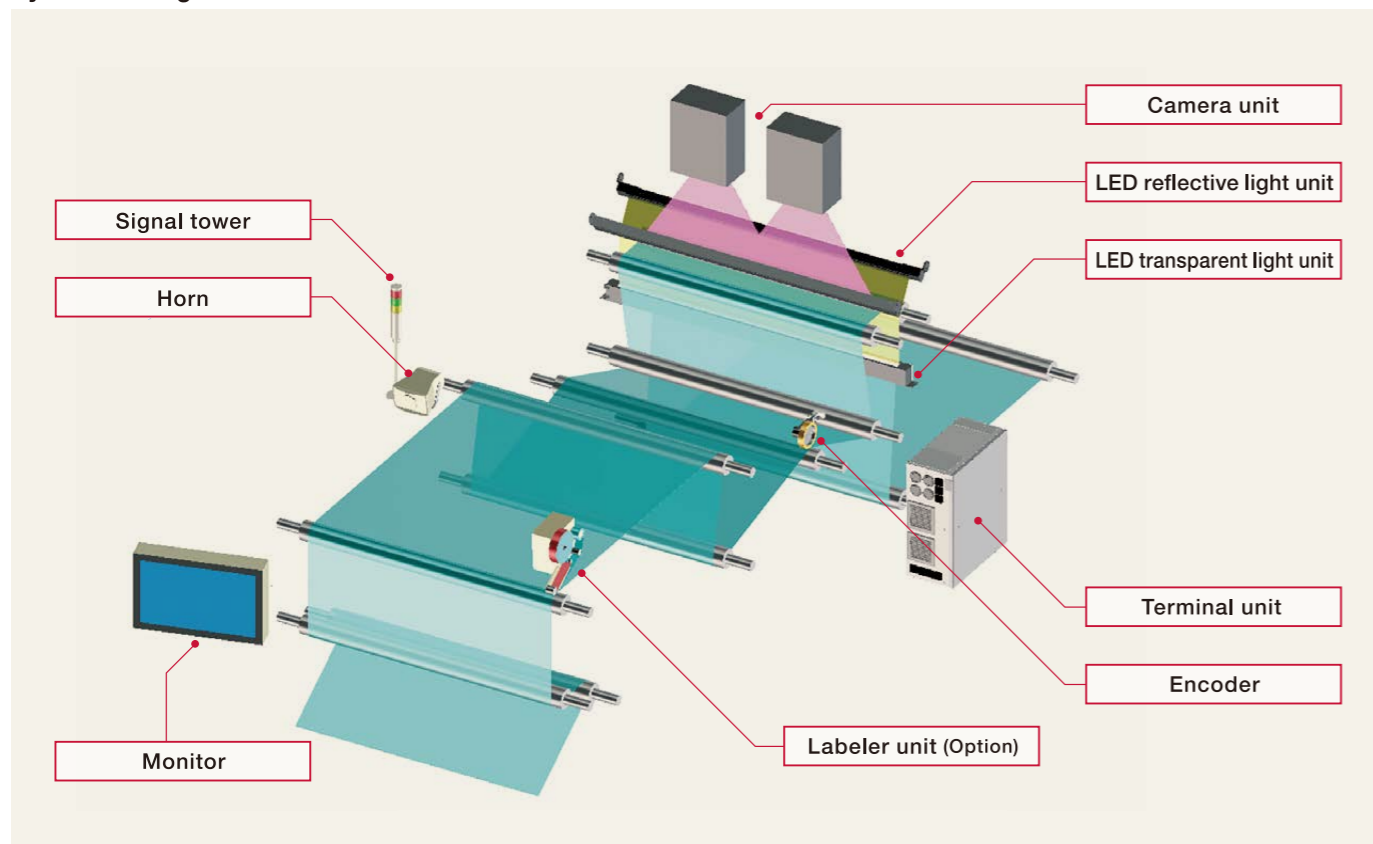
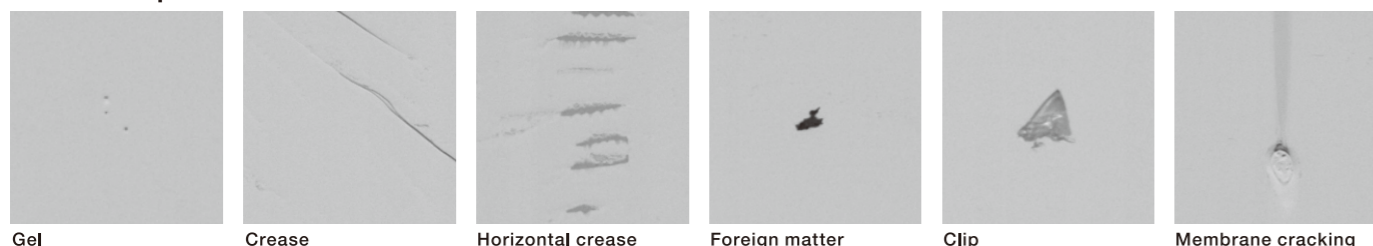


System configuration



Defect sample




Gel Crease Horizontal crease Foreign matter Clip Membrane cracking

Specifications

Line sensor	Monochrome digital camera 4096pixels, scan rate 160Mhz
Maximum numbers of camera	8 cameras for single side, 4 + 4 cameras for double sides
Resolution	Y resolution: 0.15mm, X resolution: 0.10mm (In case of inspection width 1200mm, 2 cameras, speed of 200m/min)
Saved image size	128 × 128pixels
Maximum number of acquired defect images	2048 pixel/sec (In case of 2 cameras and speed of 200m/min)
Light	LED light (In-house developed lighting structure)
Detection circuit	5 circuits

Application: Film, sheet, Non-woven fabric, Metal, Various coating films
Adapting machine: Film making machine, sheet making machine

Design and specification are subject to change without prior notice.

 CAUTION	Thoroughly read the instruction manual before operating the equipment.
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TOKYO KEIKI

TOKYO KEIKI INC.

www.tokyokeiki.jp/e/products/ips/

Inspection Systems Company

Head Office

2-16-46 Minami-Kamata, Ohta-ku, Tokyo 144-8551, Japan

Tel.+81-3-5710-3291 Fax.+81-3-3732-2077 E-mail.inspection@tokyo-keiki.co.jp

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TOKYO KEIKI

Material inspection system

M-CAP V2



TOKYO KEIKI INC.

1

Features

Flexible layout is possible regardless of the installation location.

The main body control panel of the integrated unit was removed, and the inspection system consists of components for each function. The installation flexibility is improved and contributes to the effective use of factory space.

2

Features

User-friendly ease to use

Operation is easy due to the adoption of an LCD monitor and an easy-to-use dialogue method.

3

Features

High speed and resolution are actualized by the new imaging system.

Clear images and detection of minor defects during high-speed transportation are actualized by adopting a newly developed digital camera.

4

Features

Original LED lighting are equipped as a standard.

Our original developed LED lighting achieves high brightness and color rendering. It is also possible to distinguish fish eyes (gel) and black spots with difficulty to judge due to the special structure.

Achieve even higher speed and resolution by renewing the inspection circuit !

Material inspection system M-CAP V2 protects the quality of materials and the trust of our customers.

The material inspection system M-CAP V2 is a visual inspection system only for plain web developed by making full use of the latest image processing technology. Higher speed and resolution have been achieved while maintaining the conventional ease of use. M-CAP V2 does not overlook defects that are difficult to distinguish small defects such as pinholes, foreign matter inclusion, dirt adhesion, unevenness, streaks, and scratches on the plain web.



5

Features

Vivid display even with the enlarged defective image.

Even if the defective image is enlarged and displayed by the super-modification technology utilizing AI, the image does not become rough.

6

Features

Quality control can be more efficient by extensive data management.

The number of defects by size for each column and distance can be aggregated in real time, and the data can be output as PDF. It also supports data management functions via a network, contributing to improvement of quality control efficiency and productivity.

7

Features

Inspection function has significantly expanded.

Inspection performance is greatly improved by simultaneous inspection of up to 5 circuit processes. The linear defect detection circuit enhances the detection of wrinkles, film cracks, hair, lint, etc. In addition, the pale defect detection circuit enhances the detection of large areas of pale dirt and uneven pale dirt.

Material inspection system

M-CAP V2