

Design Position Control system

NI SERIES

NIRECO Intelligent Camera
NIRECO Intelligent Panel

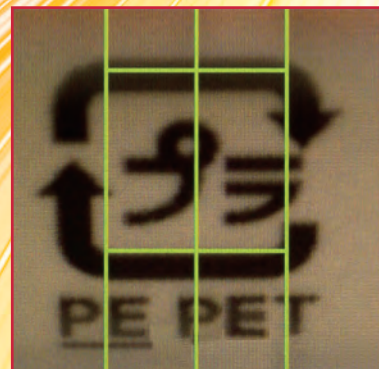
NIC100
NIP100

**At-roller-surface detection
and off-roller detection**

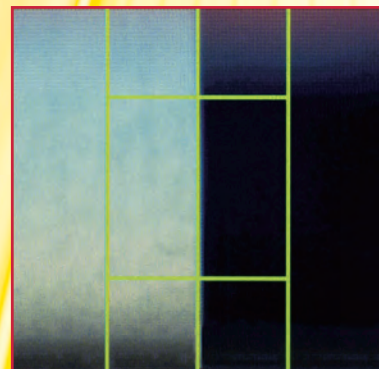
This system can be used in both at-roller-surface detection (that reduces the effects of play in the web on detection) and off-roller detection (that reduces the influence of the type of roller material on detection).

**A wide range of light sources
and filters**

Combinations of the built-in LED lighting unit and the filters enable the system to cope with a range of roller surfaces including chrome-plated rollers and rubber rollers



Patterns



Transparent film over
a hard-chrome-plated roller

- **Pattern matching**

The system takes reference positions from within the entire image (such as the line, edge, pattern and text) and stores them in memory, detects web meandering and sends out correction signals.

- **ZNCC (Zero-mean Normalized Cross-Correlation)**

Stable detection is assured, even if there are variations in external light and print density.

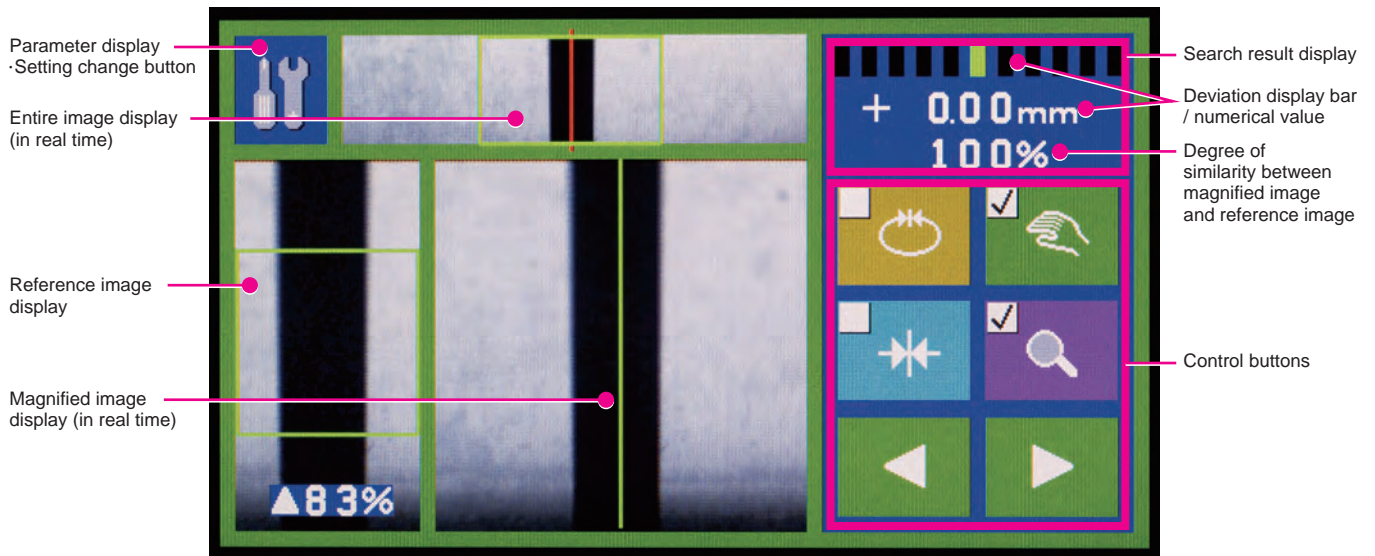
- **Easy search function**

Simply specify the reference position from within the entire image and press the Search button to record the reference position in memory and start the detection.



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NIRECO Intelligent Camera **NIC100**
 NIRECO Intelligent Panel **NIP100**

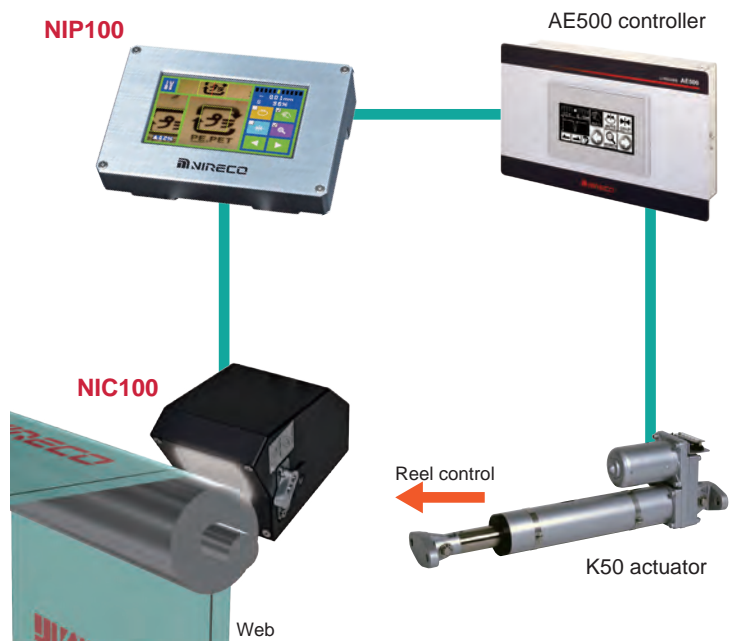
Display and Operation



Specifications

Model	NIP100	NIC100
External appearance		
Power supply	DC24V(2A)	DC24V (1A) Supplied by the NIP100
Ambient humidity	0 to +50°C (No condensation)	
Light source	—	High brightness color LED (white)
Imaging element	—	CCD area sensor (VGA W640×H480)
Display function	Color touch-screen panel (4.3 inch)	—
Analog deviation signal output	DC 0 to +5V	—
Lock signal output	Open collector	—
Sensor roller diameter	—	φ 80mm or greater
Body material	ADC12 / A5052	ADC12 / SPCC
Mass	Body 0.5kg	Body 0.7kg

System components when under AE500 control



The contents of this catalog are subject to change without notice.
 Please confirm details with our Sales Division during your planning stage.



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