

QUESTIONNAIRE

**Surface Inspection Systems  
Mujiken Series**

## **MANUFACTURER**

### **Nireco International GmbH**

Deilbachtal 199  
D-45257 Essen  
Germany

Tel.: +49 (0) 201 / 858 946-0  
Fax: +49 (0) 201 / 858 946-99

E-Mail: [info@nireco.de](mailto:info@nireco.de)  
[www.nireco.de](http://www.nireco.de)

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Please fill in as much information as possible and return it by email to [info@nireco.de](mailto:info@nireco.de)

## 1 Customer and production line data

<b>Address of the customer</b>	Name:	
	Street:	
	Postal Code, City:	
	Country:	
<b>Address of the end customer</b>	Name:	
	Street:	
	Postal Code, City:	
	Country:	
<b>Type of production line</b>		
<b>Production line identification</b>		

## 2 Ambient conditions

	Standard	Customized
<b>Ambient temperature of cameras, lighting units</b>	+ 5°C up to + 40°C	
<b>Ambient temperature of main control panel and peripheral units (operating units)</b>	+ 5°C up to + 35°C	
<b>Humidity</b>	No condensation 30 - 80%	

Please confirm or change the information above.

### 3 Electrical power

<b>Nominal voltage</b>	V ± 5 % (1-phase) V ± 5 % (3-phase)			
<b>Frequency</b>	<input type="checkbox"/>	50 Hz ± 5 %	<input type="checkbox"/>	60 Hz ± 5 %
<b>Network structure</b>	<input type="checkbox"/>	TN-Networks	<input type="checkbox"/>	IT-Networks

### 4 Type of surface inspection system

<b>Do you need an on-line inspection system in a production line?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>Do you need an off-line inspection system, e.g. for samples?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

### 5 Production line specification

<b>Strip / foil material (substrate)</b>							
<b>Coating material</b>							
<b>Material speed</b>	min.		m/min		max.		m/min
<b>Substrate thickness</b>	min.		mm		max.		mm
<b>Coating thickness</b>	min.		µm		max.		µm
<b>Material temperature</b>	min.		°C		max.		°C
<b>Material width</b>	min.		mm		max.		mm
<b>Material displacement, horizontal, during inspection</b>	-		mm		+		mm
<b>Material displacement, vertical, during inspection</b>	-		mm		+		mm
<b>Remark(s)</b>							

## 6 Defects to be detected

Type of defect	Minimum size to be detected		
Horizontal lines		mm	<input type="checkbox"/>
Longitudinal lines		mm	<input type="checkbox"/>
Foreign bodies (soiling, dots, streaks, bubbles)		mm	<input type="checkbox"/>
Scratches (continuous, discontinuous)		mm	<input type="checkbox"/>
Colour changes (localized, wide area) / Discoloration		mm	<input type="checkbox"/>
Stains (monochrome, pale spots)		mm	<input type="checkbox"/>
		mm	<input type="checkbox"/>
		mm	<input type="checkbox"/>
		mm	<input type="checkbox"/>
		mm	<input type="checkbox"/>
		mm	<input type="checkbox"/>
		mm	<input type="checkbox"/>
		mm	<input type="checkbox"/>

### 6.1 Defect catalogue

Does your company have a defect catalogue?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
Would you please provide it to us?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

Nireco International GmbH is willing to enter into any confidentiality agreement with your company, if required. It will be valid for the entire Nireco group.

### 6.2 Samples

Are you willing to provide samples before issuing the purchase order?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
Can you provide samples?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

Nireco International GmbH is willing to enter into any confidentiality agreement with your company, if required. It will be valid for the entire Nireco group.  
If required, Nireco will return the samples.

## 7 Customer-specific design guidelines

Does your company have design guidelines / colour standards which need to be considered?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
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If yes: Please specify!	

## 8 Various

Data shall be shown in metric or imperial dimensions?	<input type="checkbox"/>	Metric	<input type="checkbox"/>	Imperial
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Language to be used on screens and in reports?	<input type="checkbox"/>	German
	<input type="checkbox"/>	English
	<input type="checkbox"/>	