Surface Defect Detection
SI 3100SD

Ensure your product is Defect Free
The Surface Inspector is the only tool that can capture, display and analyze every square millimeter of your product, including: cable jacket, pipe, tube, bar stock or water soluble tape. It is the most thorough method of detecting surface flaws available. With Taymer’s Surface Inspector, you can be sure the product going to your customers meets your high standards and is without surface defects.

Reduced Defects
The Surface Inspector provides the operator with a view of current surface images as well as the most recent surface defects with defect dimensions. This continuous stream of real time information – especially failure data - allows the operator to isolate the causes of jacket imperfections or water soluble tape folds. Identifying when and how a defect occurs allows your technical staff to reduce occurrences of surface defects and prevent customer complaints and rejects.

Quality Assurance
The Surface Inspector will capture images of your printed cable, save the images to disk and allow you to print them out to include in your quality reporting both internally and to your customers. The Surface Inspector’s display also makes it easy for engineering and production supervisors to examine the defect without having to see the defect itself. Defect locations are recorded together with the image of the defect allowing your operators to find and eliminate defects before they reach your customers or fail in the field.

CONTACT US TODAY FOR MORE DETAILS

FEATURES
- Detects pinholes, bulges, neckdowns, surface blemishes on wire / cable jacket, metal tube, bare wires, tape mis-wraps
- Supports line speeds up to 400 meters per minute
- Two or three camera configurations available depending on coverage required and minimum defect requirement
- Alerts operator and production machinery if any defects are found
- Records any defects for QA records and operator verification
- Accurately measures and records cable diameter along 1 or 3 axes
- Saves length information for each defect to allow operators to easily locate the defects after detection
- Software analyzes full circumference and 100% of product length

Quality on the Line

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**SPECIFICATIONS**

**Maximum Line speed**
400 meters per minute ■ 1,300 feet per minute
(Exact maximum speed will depend on specific application)

**Minimum detectable defect size**
0.05mm and up ■ 0.001”
(Depends on line speed and cable diameter)

**Cable Diameter Range**
0.5mm - 10mm (Other diameters available upon request)
0.019”- 0.393”

**Camera Configuration**
3 Camera - 100% coverage of all cable diameters (<10mm)

**Pixels per square mm**
~500 for small diameter cable jackets and tapes

**Type of defects detected**
Jacket defects ■ Pin Holes ■ Neck downs
Bulges ■ Water soluble tape coverage
Pipe, Tube and Bar scratches or other imperfections

**Percent overlap between images**
5%

**Image processing**
All images from all cameras are read, enhanced and analyzed, resulting in 100% product coverage at maximum line speed

**Lighting**
LED

**Location**
Before Printer, on wires without print legends. Can optionally be installed after the printer and water trough

**Power Supply**
110 or 230V depending on choice

**Dimensions**
Without Stand 9” x 22” x 19” - L x W x H
229mm x 559mm x 483mm - L x W x H

With Stand 37” x 25” x 70” - L x W x H
940mm x 635mm x 1778mm - L x W x H
(Custom stands can be built)

**Weight**
100lbs ■ 45kg

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**Quality on the Line**

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