

Surface Defect Detection

for **Bare Wire, Pipe and Tubing**



› Ensure your product is Defect Free

The Surface Inspector is the only tool that can capture, display and analyze every square millimeter of your bare wire. 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 surface imperfections. 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 bare wire, 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.

FEATURES

- › Detects bulges, neckdowns, outer diameter defects, scratches, discolorations, surface blemishes or other imperfection on wire/cable, metal tube, and bare wires
- › Supports line speeds up to 400 meters per minute or 1,312 feet per minute
- › 1, 2 or 3 camera configurations available depending on coverage required and min. 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 product diameter along 1 or 3 axes
- › Saves length information for each defect to allow operators to easily locate the defects after detection
- › Integrates with external PLC to provide defect and product measurement information
- › Generates reports containing relevant product diameter, defect, and measurement information



SPECIFICATIONS

> Maximum Line Speed:

400 m/min | 1,312 ft/min

Higher speed may be available depending on application

> Minimum Detectable Defect Size:

0.025 mm and up | 0.001" and up

Depends on line speed and product diameter

> Outer Diameter Range:

0.01 mm - 30 mm | 0.0004" - 1.18"

Other diameters available upon requests

> Camera Configuration:

3 camera - 100% coverage of product circumference

> Pixels/mm²: ~1,500 for small diameter product

> Types of Defects Detected:

Neck downs, bulges, OD defects, discolorations, scratches or other imperfections

> Percent Overlap Between Images: 5%

> Dimensions:

Without stand:

229 mm x 559 mm x 483 mm - L x W x H

9" x 22" x 19" - L x W x H

With stand: (Custom stands can be built)

840 mm x 635 mm x 1625 mm - L x W x H

33" x 25" x 64" - L x W x H

> Location: In-line

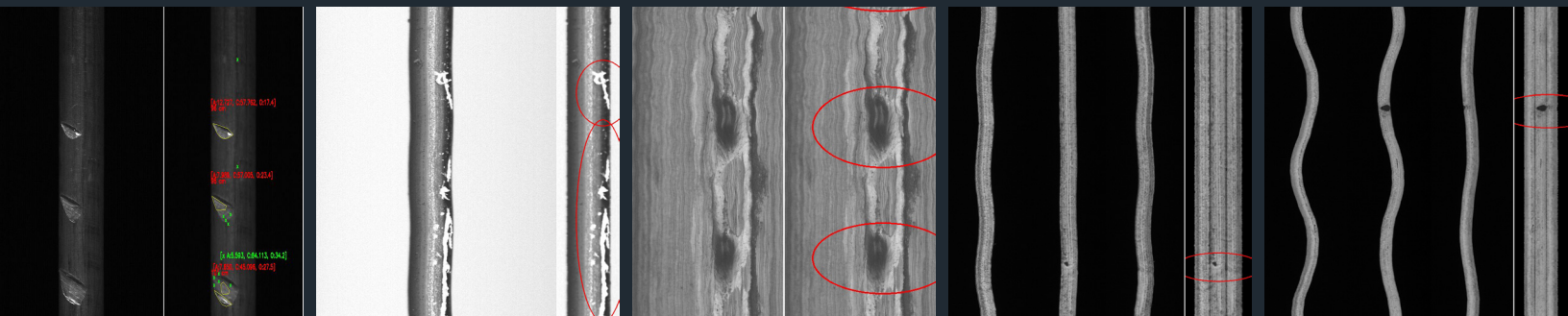
> Power Supply: 110V or 220V, 50/60Hz

> Weight: 45 kg | 100 lbs.

> Lighting: LED

> Image Processing:

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



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