

# Surface Inspector

## For Power Cables and Large OD Cables

### Ensure your product is Defect Free

The Surface Inspector is the only tool that can capture, analyze and judge every square millimeter of your product. It is the most thorough method of detecting surface flaws available. The system also provides dimensional measurements simplifying the QA process and allowing the operator to see the bulge or neck-down simultaneously. Because it is camera based, defects that are on the surface will be detected; unlike a spark tester which require defects to be exposed to the core. With the Surface Inspector you can be sure the product you are sending to your customers is without any surface defects.

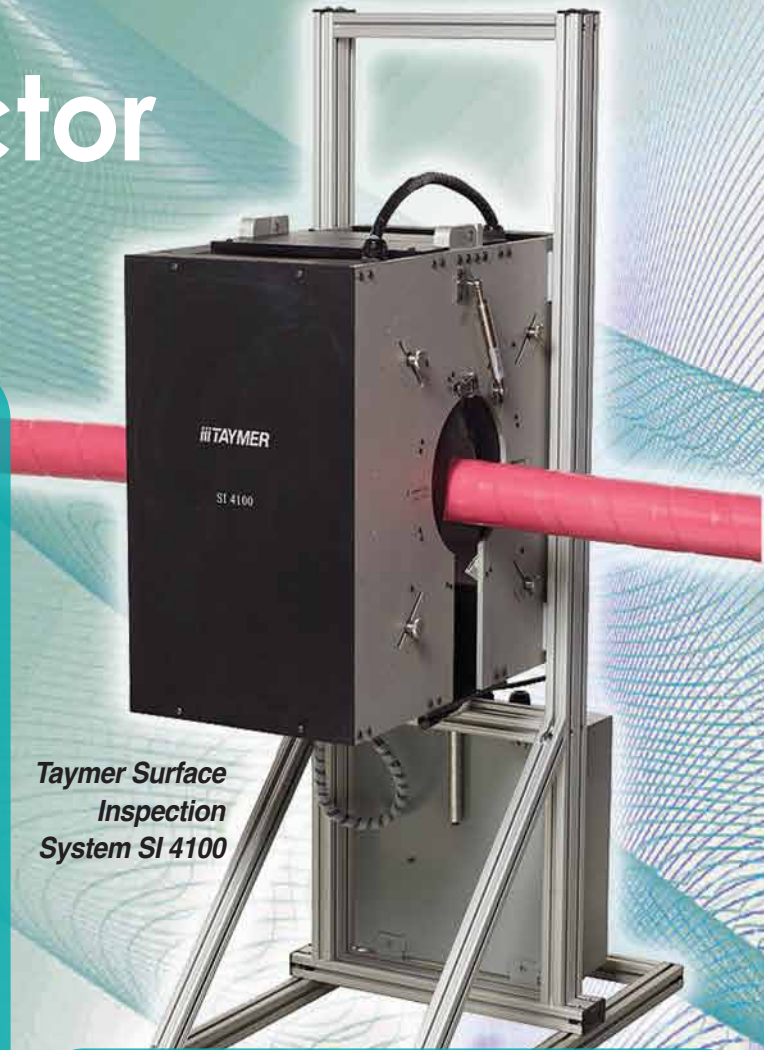
### Image Feedback and QA Improvements

The Surface Inspector provides the operator with up-to-the-second digital image feedback of the current jacket on any production line. This continuous stream of real time information – especially the failure images - allows the operator to isolate causes of jacket imperfections and where the defect is along the cable. This will result in reducing jacket defects before they result in scrapping of product or worse, customer complaints or recalls. Defect images are also saved, so they can be included in quality reports for internal or external use.

### Industrial Setup, even for Dirty Environments

The Surface Inspector is designed for a 24/7, dirty, industrial environment in mind. The height adjustable aluminum extrusion frame allows for quick and accurate line height adjustments. A sliding rail at the base allows for lateral adjustments as well as for operators to slide the system out of the way so bulky cable joints can pass through. Covers and shields that are easy to clean prevent dust particles from entering the system. Fans, lens filter, and optional air wipes are also used to keep the whole system clean and dust free.

Contact us today for more details



*Taymer Surface  
Inspection  
System SI 4100*

### Features:

- Detects pinholes, bulges, neckdowns, surface blemishes, die cuts on cable jacket
- Dimensional readout of measured outer diameters
- Supports line speeds up to 400 meters per minute
- Four camera configurations integrated into a one-box design
- Large opening for cable to pass through without problems.
- Height adjustable aluminum extrusion frame mounted on rails to easily slide system out of the way.
- Simple and low maintenance to keep the system running 24/7
- Optional air wipes to clear cable from debris before entering the system
- Alerts and records any defects into database for QA records and operator verification
- Software analyzes full circumference and 100% of product length
- Detects defects before they reach your customer or fail in the field

Quality on the Line

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# Specification Details

Maximum Line Speed	1200 ft per minute 400 m per minute
Cable Diameter Range	2.0" to 10.0" 50 mm to 250 mm
Minimum detectable defect size	0.040" diameter pin hole 1.0mm
Lighting	LED or Halogen
Camera Configuration	4 Camera - 100% coverage of very small defects
Type of defects detected	Jacket defects Pin Holes Neck downs Bulges Die Cuts
Pixels per square mm	~100 for large diameter cable jacket
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
Camera and Light Housing	Black Anodized Single Box with 4" Opening Clear Cover and Sliding Shield Air Ventilation with Removable Filters
Industrial Stand	Height Adjustable Aluminum Extrusion Construction Sliding Base Rail
Options	Air Wipes Encoder Measuring Wheel with Pivot Arm
Computer & Interface	Taymer Surface Inspection Software Windows Operating System Allows for Remote Access and Database Integration
Dimensions	18" X 25" X 62" – L X W X H (with stand) 457 mm X 635 mm X 1580mm – L X W X H
Weight	250lbs 115kg
Power Supply	110VAC / 220 VAC



Quality on the Line

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