

Ribbon Inspector

RI2400 For Fiber Optic Ribbon

High Speed Ribbon Inspection for Fiber Ribbon

The Ribbon Inspectors continuous capture mode of operation provides the operator with up to the second digital image feedback of the current status of Fiber Optic Ribbon. With Taymer's Ribbon Inspector, you can be sure the product going to your customers meets your high standards and is without ribbon defects.

Reduced Defects

The Ribbon Inspector provides the operator with a view of current ribbon images, recent defect images with defect dimensions, and verification of the color sequence. This continuous stream of real time information – especially failure data - allows the operator to isolate the causes of ribbon imperfections or missing fiber strands. Identifying when and how a defect occurs will allow your technical staff to reduce occurrences of defects causing expensive reworking costs and prevent customer complaints and rejects.



RI2400

CONTACT US TODAY FOR MORE DETAILS

FEATURES

- Accurately measures fiber optic ribbon width and thickness
- Precisely examines ribbon planarity and gap distance between fiber strands
- Detects if any fiber strands are missing from ribbon
- Verifies the ribbon color sequence is correct at line startup, and during the run
- Inspects fiber strands for missing ink and large hue shifts in color
- Supports line speeds as fast as 4500 ft/min or 1500 m/min
- Up to 36 fiber strands ribbon can be inspected
- Alerts operator and production machinery if any defects are found
- Records any defects for QA records and operator verification
- Simple, Push Button Operator Interface – no computer knowledge required

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Quality on the Line

 **TAYMER**

SPECIFICATIONS

Maximum Ribbon Width

36 fiber strands

Width/Thickness Measurement Accuracy

1.5 microns and up
(Depends on product and camera setup)

Planarity Tolerance

±25 micron

Fiber Gap Measurement

±10 micron

Maximum Speed

4500 feet per minute, 1500 meters per minute
(Exact maximum speed will depend on specific application)

Outputs

Relay contact closure on defect detection
Alarm Stack (Light/Audio Alarm)

LCD Display

22" Monitor

Power

110 V or 230 V depending on choice

Dimensions

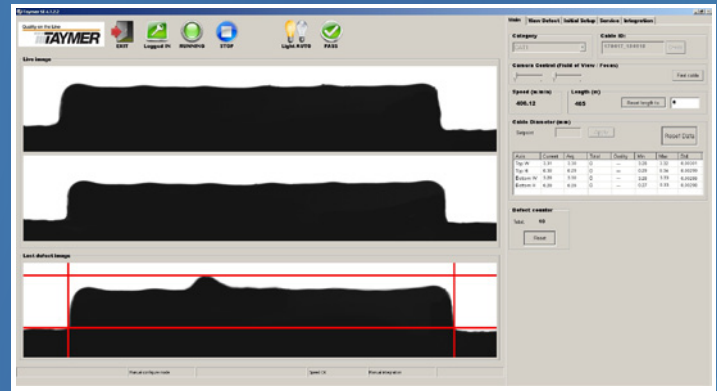
20" x 20" x 60" (L x W x H)
510mm x 510mm x 1520mm
Line height is adjustable

Weight

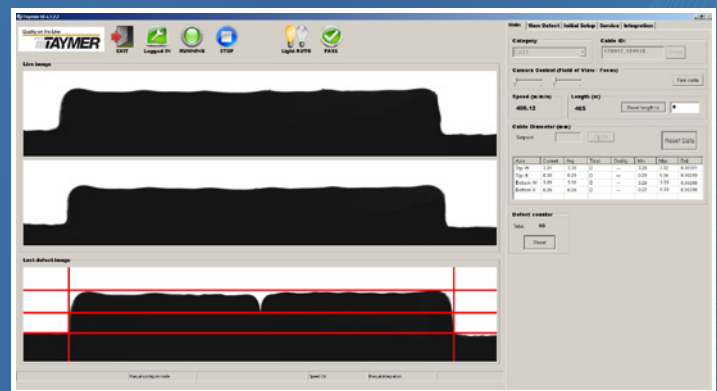
120lb
55kg

Inspection Software

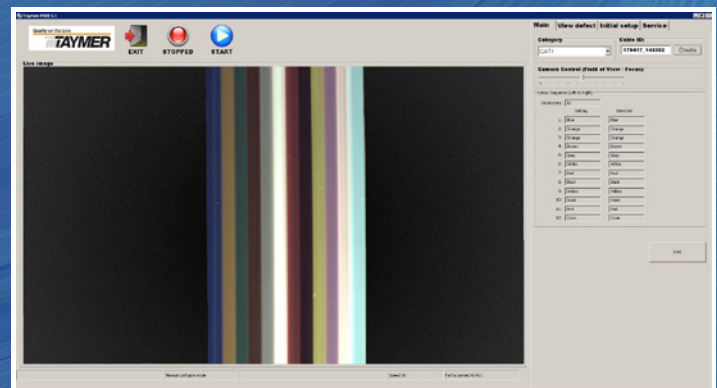
Gain and contrast enhancement
Edge detection with pattern matching



Detected Ribbon Profile Lump Defect



Detected Ribbon Joint Split Defect



Ribbon Color Sequence Verification

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