Ribbon Inspector
RI2400

High Speed Ribbon Inspection for Fiber Ribbon

The Ribbon Inspector's 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.

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

Taymer International Inc.
208 Telson Rd, Markham, Ontario, L3R 1E6, Canada
Phone: +1 (905) 479-2614
Fax: +1 (905) 479-2614
Email: info@taymer.com
Web: www.taymer.com

Quality on the Line
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Ribbon Width</strong></td>
<td>36 fiber strands</td>
</tr>
<tr>
<td><strong>Width/Thickness Measurement Accuracy</strong></td>
<td>1.5 microns and up (Depends on product and camera setup)</td>
</tr>
<tr>
<td><strong>Planarity Tolerance</strong></td>
<td>±25 micron</td>
</tr>
<tr>
<td><strong>Fiber Gap Measurement</strong></td>
<td>±10 micron</td>
</tr>
<tr>
<td><strong>Maximum Speed</strong></td>
<td>4500 feet per minute, 1500 meters per minute (Exact maximum speed will depend on specific application)</td>
</tr>
<tr>
<td><strong>Outputs</strong></td>
<td>Relay contact closure on defect detection, Alarm Stack (Light/Audio Alarm)</td>
</tr>
<tr>
<td><strong>LCD Display</strong></td>
<td>22” Monitor</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>110 V or 230 V depending on choice</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>20” x 20” x 60” (L x W x H) 510mm x 510mm x 1520mm Line height is adjustable</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>120lb 55kg</td>
</tr>
<tr>
<td><strong>Inspection Software</strong></td>
<td>Gain and contrast enhancement, Edge detection with pattern matching</td>
</tr>
</tbody>
</table>

**Detected Ribbon Profile Lump Defect**

**Detected Ribbon Joint Split Defect**

**Ribbon Color Sequence Verification**

---

**Quality on the Line**

---

Taymer International Inc.
208 Telson Rd, Markham, Ontario, L3R 1E6, Canada
Phone: +1 (905) 479-2614
Fax: +1 (905) 479-2614
Email: info@taymer.com
Web: www.taymer.com