Count on us™
Assure

Assure™ Series
X-ray Component Counters

www.nordsondage.com
The Electronics People

Founded in 1954, Nordson Corporation is a market leading industrial technology company with annual revenues of over $2.1 billion and more than 7,500 employees worldwide.

Nordson offers a wide range of products which are focused on providing process, test and inspection solutions for the electronics and semiconductor industry. Whether you need to maintain live component inventory using Nordson DAGE X-ray counting technology, or check for package level delamination with Nordson SONOSCAN acoustic inspection, we provide best in class technology solutions for PCBA and package level electronics manufacture, and the global support network to keep you running and minimize downtime.

- **Selective soldering**
- **Automated fluid dispensing and conformal coating systems**
- **X-ray component counting and live inventory**
- **Plasma treatment and processing equipment**
- **Selective soldering systems**
- **Advanced automated optical metrology inspection solutions**
- **Acoustic micro imaging solutions**
- **Bond testing and materials testing quality control solutions**
Live Inventory

The correct material in the correct quantity, at the right time in the right place.

Inventory knowledge is essential for modern industry. Whether you are a SMT manufacturer, supplier or broker, live assurance of correct inventory in your MRP system at all times minimizes stock, labor, errors and costs ensuring customer confidence and trust. Keep your SMT lines running.

Ensure your production is smooth running and cost efficient with Assure™.
**Your Live Inventory Solution**

Assure™ is the fastest, simplest and most reliable way to implement live component inventory management into your organization. Intelligent, simple, fast, and trustworthy, Assure enables you to increase productivity and minimize component shortage downtime.

**Intelligent**

Specialized logical algorithms and self-learning capabilities empower operators to add (not teach) new component types without needing cumbersome libraries that require programming, or reliance on “cloud-only” support.

**Simple**

One button operation and an intuitive touchscreen interface means users can learn to operate Assure within minutes. Installation is easy with an exceptionally small footprint and system weight. Maintenance free operation minimizes disruption during day to day use.

**Fast**

Optimized for speed, Assure counts components fast so you can process inventory sooner, and minimize labor time and cost. Count a single reel in approximately 10 seconds and four reels under 15 seconds.

**Trust**

Assure validates results immediately and automatically with accuracy exceeding 99.9% on most components, guaranteeing the quality of the count.

**Enterprise Integration**

Save time and guarantee precise, live inventory knowledge within the factory by interfacing Assure to your ERP, MRP, pick and place and storage systems.

Assure seamlessly integrates into every major ERP system including SAP and Oracle so you can automatically plan and purchase new materials as soon as they are counted.

Is your storage system already integrated with your MRP? Assure communicates with a range of popular automated storage solutions which relay component counts on to MRP.

Connect Assure with your pick and place equipment to ensure sufficient material is loaded to complete each production cycle.

Automatically monitor reel handling component loss, Assure compares components counted with those issued by the pick and place equipment.

Is your storage system already integrated with your MRP?
**Intelligent Features**

**Plug and play**

Be up and running fast. Assure™ uses advanced algorithms to identify new components and does not rely on libraries or require a connection to the cloud.

A true plug-and-play solution, Assure does not require hours of programming.

**Group counting**

Group inventory together with Group counting, even in Quad Count mode.

Easily report counting results for customer or other inventory groups together at once.

Ensure all materials in the group are counted at the same time. Group counting mode can automatically reject other material counts while the group is being counted, ensuring all reels in the group stay together.

**BOM Import**

BOM data contains useful information such as UID, customer part numbers, manufacturing part numbers and storage locations for complete traceability.

**Count on us™**

- Quad reel count
- Single and spliced reel count
- ESD and moisture sensitive bags
- Trays
- Snippets
- Tubes

Intuitive touchscreen user interface.

Easy reporting of groups of materials, ideal for customer consignment inventory.

Automatic tape splice detected in yellow region.
### Specifications at a Glance

<table>
<thead>
<tr>
<th>Performance</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum reel diameter</td>
<td>43 cm / 17”</td>
</tr>
<tr>
<td>Maximum reel height</td>
<td>10 cm / 4”</td>
</tr>
<tr>
<td>Processing time: single reel quad count</td>
<td>~ 10 s (any size or quantity)</td>
</tr>
<tr>
<td>Accuracy</td>
<td>&gt; 99.9% (most components)</td>
</tr>
<tr>
<td>Minimum component size</td>
<td>01005</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Installation</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Footprint (W x D x H)</td>
<td>0.76 m x 0.88 m x 2.25 m / 30” x 34” x 88”</td>
</tr>
<tr>
<td>Weight</td>
<td>360 kg / 790 lbs</td>
</tr>
<tr>
<td>Power</td>
<td>~ 110…230V, 16 A, 50/60 Hz</td>
</tr>
<tr>
<td>Max. power consumption</td>
<td>800 W</td>
</tr>
<tr>
<td>Grounding</td>
<td>0.75 mm² (via main power supply)</td>
</tr>
<tr>
<td>Noise emission</td>
<td>&lt; 60 dB</td>
</tr>
<tr>
<td>Operating temperature/humidity</td>
<td>15 °C to 28 °C / 30 -70% non condensing</td>
</tr>
<tr>
<td>ESD</td>
<td>DIN EN 61340-5-1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Software</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>Microsoft Windows 10 Pro</td>
</tr>
<tr>
<td>Application software</td>
<td>ASSURE.Shell</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Detector</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pixel area</td>
<td>43 x 43 cm (17” x 17”)</td>
</tr>
<tr>
<td>Power dissipation</td>
<td>42 W</td>
</tr>
<tr>
<td>Resolution</td>
<td>139 µm (3.6 lp / mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>X-Ray Module</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>240 W</td>
</tr>
<tr>
<td>Voltage</td>
<td>60 kV</td>
</tr>
<tr>
<td>Current</td>
<td>4 mA</td>
</tr>
<tr>
<td>Shielding</td>
<td>&lt;0.5 µSv / hour 5 cm from surface, meets all international standards</td>
</tr>
</tbody>
</table>

**Americas**  
+1 760 930 3307  
sales@nordsondage.com  

**Europe**  
+44 1296 317800  
oc.info@nordson.com  

**China**  
+86 512 6665 2008  
sales.ch@nordsondage.com  

**Germany**  
+49 9126 29498 00  
oc.info@nordson.com  

**Japan**  
+81 3 5639 7020  
sales.jp@nordsondage.com  

**Korea**  
+82 31 462 9642  
korea.at.cs@nordson.com  

**South East Asia**  
+65 6552 7533  
sales.sg@nordsondage.com  

**Taiwan**  
+886 2 2902 1860  
globalsales@nordsondage.com  

**United Kingdom**  
+44 1296 317800  
globalsales@nordsondage.com

Specifications subject to change without prior notice.  
Copyright © Nordson DAGE 2019. Other products and company names mentioned are trademarks or trade names of their respective companies.  
Nordson DAGE products are patent protected and covered by the patent listed at www.nordson.com/dagepatents.

BR-XR-311019-V1