The METTLER TOLEDO CI-Vision Mosaic is a turnkey vision inspection solution for round, un-oriented products. The Mosaic serves as a quality control solution for manufacturers of fast-moving consumer goods seeking to prevent recalls caused by label defects including missing or incorrect information.

Unlike other 360° inspection methods which are cumbersome to set up, unable to adapt to different product sizes and require slower production speeds, the Mosaic offers a more straightforward solution. With better flexibility to adjust to variations in product position and packaging material, setup of the Mosaic is achieved more rapidly, and consistently achieves longer system uptimes than traditional 360° inspection methods.

**Benefits**

- Easy setup and calibration reduces downtime during product changeovers and simplifies regular maintenance.
- A more accurate vision inspection method reduces the number of false rejects caused by faulty calibration and poor image quality.
- Globally deployable inspection solution means no matter where the production plant is, METTLER TOLEDO provides installation, service and support.
Product labels are the critical line of communication between manufacturers and consumers, displaying everything from instructions for use to allergy warnings. Vision inspection is the only method of product inspection capable of performing fast, accurate inspections on 100% of products on the production line, but performing these inspections on round, un-oriented containers has long been a point of pain for the industry.

The traditional method of vision inspection on round, un-oriented containers involves inspecting a composite stitched image made up of four separate images. This requires meticulous set-up and calibration requiring over fifty steps to accomplish. Each new product requires the same meticulous calibration process, and product changeovers require a similar recalibration of the system. Systems using stitching also have strict product size requirements—they can only run a small range of product sizes. By contrast, the Mosaic utilizes a series of paneled images to perform inspections, requiring significantly fewer steps to calibrate, capabilities for various product sizes and a much faster product changeover process. In addition, paneling technology is able to run at higher speeds, increasing the capabilities of the system.

**Revolutionary Complete Product Coverage**

Over-the-line Design
Rather than forcing manufacturers to change production line layouts, the Mosaic installs atop existing production lines, making installation easier. As long as there is space on the line, the system requires no changes to existing line layouts.

Six Camera Configuration
Utilizing six cameras instead of four, the Mosaic captures multiple angles of the complete product surface, reducing image distortion and allowing the system to obtain the best possible views for its inspections. This increases the accuracy and repeatability of inspections.

Touchscreen Interface
The Mosaic utilizes an intuitive touchscreen interface running CIVCore®, METTLER TOLEDO CI-Vision’s powerful, easy-to-use vision inspection software. Multi-level user controls and anti-vision circumvention technology ensure the Mosaic lives up to expectations.
**Worldwide Service and Support**

Manufacturers with global reach require a vision solution that can be deployed to any location in the world. METTLER TOLEDO has a worldwide presence and expert technicians can be sent to every corner of the globe. No matter the plant location, METTLER TOLEDO can reach it.

**Remote Station Capabilities**

Manufacturers interested in improving their product quality may have other desires apart from label inspection. That is why the Mosaic has been designed to support the addition of remote inspection stations to add capabilities such as cap presence, position and skew.

**Washdown Capabilities**

The Mosaic is available as a stainless steel system built to IP65 requirements for industries with strict washdown requirements such as food production environments.

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**Technical Data**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Footprint (l x w)</td>
<td>1,250 x 1,150 (mm)</td>
</tr>
<tr>
<td>Maximum Field of View (h x w)</td>
<td>250 x 195 or 195 x 250 (mm)</td>
</tr>
<tr>
<td>Maximum Product Height</td>
<td>300 (mm)</td>
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<tr>
<td>Product Diameter Range</td>
<td>+/- 97.5 (mm)</td>
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<tr>
<td>Product Height Range</td>
<td>+/- 75 (mm)</td>
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<tr>
<td>Open Line Length*</td>
<td>1150 (mm)</td>
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<tr>
<td>Maximum Inspection Speed</td>
<td>Up to 1200 ppm</td>
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<tr>
<td>Operating Temperature (°C)</td>
<td>Up to 26.7</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>Up to 80%</td>
</tr>
</tbody>
</table>

*Systems with attached rejection components will require additional line space. Talk to a METTLER TOLEDO CI-Vision representative for further details.*
Specifications: Mosaic

Inspection Capabilities
- 1D and 2D barcode presence, reading and verification
- Alpha-numeric text presence, reading and verification
- Presence and quality of graphics
- Label position (Y position)
- Label quality (flags, holes, tears)
- Label verification
- All inspections available on remote station with top-down camera

Software Capabilities
- Failure string signals: The Mosaic can be programmed to signal operators or shut down production based on production trends or a set of consecutive failures, allowing for early detection of weak points in the production process.
- Pack Tags: The Mosaic can communicate with other systems on the production line using Pack Tags support.
- Anti-circumvention capabilities provide a safeguard against bypassing inspection to speed up production—making sure that every product gets inspected.
- CIVCore interface is standard on all METTLER TOLEDO CI-Vision systems—companies with other CI-Vision inspection systems on their line will find the same easy-to-use interface on the Mosaic. First time users will find the software easy to learn.*

Choosing the Right System
Every manufacturer has their own specific needs and their own quality assurance processes to follow. METTLER TOLEDO CI-Vision has a system configuration to meet the needs of manufacturers regardless of container size. Speak to a METTLER TOLEDO CI-Vision sales representative to find the right system for your needs.

www.mt.com/ci-vision
For more information

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Specifications subject to technical changes.
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Printed in U.S.A.
Version 2.0