The S3088 ultra chrome is designed to meet the demand for high throughput production lines, inspect the most leading-edge electronics, and be cost competitive. This system is based on the unique 3D AOI technology from Viscom, and combines accurate defect detection with high inspection speed. This makes the S3088 ultra chrome the first choice for efficient SMT production.

Some of the market leading features of the S3088 ultra chrome are inspection speed of up to 65 cm²/s and a field of view of 50 mm x 50 mm. The orthogonal resolution is switchable, and with 10 µm per pixel even 03015 components can be reliably inspected. Together with the eight angled-view cameras, a virtually shadow-free 3D inspection is one of the key advantages of the system.

For optimal process control and comprehensive defect coverage, the results from automatic optical inspection can be intelligently linked with SPI, AXI and MXI results via the Quality Uplink software from Viscom. The modern user interface, vVision, makes operation simple and inspection program generation intuitive and quick.
# Technical Specifications

## S3088 ultra chrome

### Inspection scope
- Solder joints, placement, solder paste

### Camera technology

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>3D sensor technology</td>
<td></td>
</tr>
<tr>
<td>Z-resolution</td>
<td>0.5 µm</td>
</tr>
<tr>
<td>Z-range</td>
<td>Up to 30 mm (1.2&quot;)</td>
</tr>
<tr>
<td>Angled view cameras</td>
<td></td>
</tr>
<tr>
<td>Number of megapixel cameras</td>
<td>8</td>
</tr>
<tr>
<td>Orthogonal camera</td>
<td></td>
</tr>
<tr>
<td>Resolution</td>
<td>10 µm</td>
</tr>
<tr>
<td>Field of view</td>
<td>50 mm x 50 mm (2&quot; x 2&quot;)</td>
</tr>
</tbody>
</table>

### Inspection speed
- Up to 65 cm²/s

### Software
- User interface: Viscom vVision/EasyPro
- SPC: Viscom SPC (statistical process control), open interface (optional)
- Verification station: Viscom vVerify/HARAN
- Remote diagnosis: Viscom SRC (software remote control) (optional)
- Programming station: Viscom PST34 (optional)

### System computer
- Operating system: Windows®
- Processor: Intel Core™ i7

### PCB handling
- PCB dimensions: 508 mm x 508 mm (20" x 20")
- Transport height: 850 - 950 mm ± 20 mm (33.5" - 37.4" ± 0.8")
- Width adjustment: Automatic
- Transport type: Single track transport
- PCB clamping: Pneumatic
- Upper transport clearance: 50 mm (2")
- Lower transport clearance: 45 mm (1.8"), up to 85 mm (3.3") optional; 40 mm (1.6") with PCB support

### Other system data
- Positioning/handling unit: Synchronous linear motors
- Interfaces: SMEMA
- Power requirements: 208 V (other voltages on request), 3P/N/PE, 15 A, 4 - 6 bar working pressure
- System dimensions: 994 mm x 1565 mm x 1349 mm (39.1" x 61.6" x 53.1") (W x H x D)
- Weight: 720 kg (1587 lbs)

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Dimensions in mm

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