The 5K SERIES offers flexibility for wider board applications with its large board capability and small footprint. The series provide accuracy, repeatability and meets tight cycle-time requirements. It has been designed with best-in-class hardware and software technologies to secure high-quality inspection and a maximized throughput.

- For Post Print, Mixed Mode, Pre Reflow or Post Reflow applications
- 100% inspection: presence, absence, polarity and placement accuracy as well as OCV and solder joints with Profiler® tool
- JEDEC component library powered with Vectoral Imaging technology inspection tools
- Real-time Statistical Process Control (SPC) capability
- Automatic conveyor width adjustment for boards up to 21” x 21”
- Cycle time: from 250 000 to 400 000 components per hour
- Powered by i-LITE (Programmable Illumination System)
## SPECIFICATIONS

**TYPE**

<table>
<thead>
<tr>
<th>Mechanical system (dimensions in mm [inches])</th>
<th>Maximum board dimensions</th>
<th>Board thickness (minimum to maximum)</th>
<th>Maximum board weight</th>
<th>Maximum inspectable board area</th>
<th>Minimum inspectable board area</th>
<th>Clearance under camera</th>
<th>Clearance under board</th>
<th>Clamping system edge</th>
<th>Board positioning</th>
<th>XY table</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>533.4 [21] x 533.4 [21]</td>
<td>0.5 to 4 mm [0.019 to 0.15]</td>
<td>3 kg [6.6 lb]</td>
<td>533.4 [21] x 533.4 [21]</td>
<td>50 [1.96] x 50 [1.96]</td>
<td>34 [1.33]</td>
<td>60 [2.36] [55 [2.16] at board support pins location]</td>
<td>5 [0.19]</td>
<td>Board and panel fiducials</td>
<td>Linear motors and coders</td>
</tr>
</tbody>
</table>

**P series optical heads**

<table>
<thead>
<tr>
<th>Camera resolution</th>
<th>Field size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perform</td>
<td>2 352 x 1 728</td>
</tr>
<tr>
<td>Premium</td>
<td>2 352 x 1 728</td>
</tr>
</tbody>
</table>

**Lighting system**

- Lighting colors: i-LITE (red, green, blue)
- Lighting types: Axial and peripheral

**Average inspection speed**

- Inspection time per component: 4 - 20 ms

**Average inspection speed for solder paste (contacts per mm)**

| Perform | 58 000 |
| Premium | 75 000 |

**Average production cycle time (components per hour)**

| Perform | 250 000 |
| Premium | 400 000 |

**Type of components inspected**

- 01005 up to exotic

**Software**

- Operating system: WINDOWS XP
- Vision integrated software suite: Standard
- Off-line programming software: Optional
- Off-line repair software: Optional
- Standard Library based on JEDEC packages: Standard

**Communication**

- Upstream / downstream: SMEMA 2
- Network: TCP/IP, RJ45 plug

**Facilities**

- Electrical supply: 115 / 230 V, 50 / 60 Hz, 16 / 8 A
- Machine dimensions W x D x H: 1110 [43.70] x 1351 [53.19] x 1892 [74.48]
- Weight: 900 kg
- Transport height: 950 ± 50 [37.4 ± 2] (option 850 ± 50 [33.5 ± 2])

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**DIMENSIONS**