Fixturlaser XA Ultimate – The Ultimate Measurement Instrument

Alignment + Geometric Measurements = The Perfect Fit

The alignment and geometric applications programs that are included in the Fixturlaser XA Ultimate, compliment each other. Having a properly aligned machine starts already at the time of its installation, e.g. with checking that the machine foundation is flat before the machine is installed upon it. If the machine foundation is skewed or warped in any way, that will influence the machine’s capability to work under optimal conditions. In these times with tight tolerances and increasingly optimized machine designs and foundations, it is even more important to focus on the root cause of outages in preventive maintenance.

Straightness with Fixturlaser XA Ultimate

The application programs for straightness include:
- Standard Straightness: used for measuring machine guides, machine beds, machine ways, and guide rails.
- Straightness with the Clock Method or the Arc Angle Method: useful for bore and half bore measurements, such as bearing journals in compressors and diesel engines, and turbines with split casings.

Flatness with Fixturlaser XA Ultimate

The flatness application programs include:
- Rectangular flatness: used for measurements of e.g. machine beds and machine foundations.
- Circular flatness: useful for measurement of flanges.

The Graphic User Interface

Our alignment programs are entirely based on color coded icons, symbols, measurement values, and 3D animated screen pictures; the geometrical programs have the same design of the graphical user interface. It will guide you throughout the entire configuration, measurement and adjustment process, where e.g. the green arrows will show you in which direction you need to move the machine or the measurement object. During this entire process, the Fixturlaser XA Ultimate shows live values and there is no need for remeasurements in between adjustments; the Fixturlaser XA Ultimate delivers the machine’s true position. The Fixturlaser XA Ultimate’s display unit is one of a kind in the market as it is fitted out with the largest color touch screen available, a whole 6.4” in size.
**FIXTURLASER XA ULTIMATE**

**FIXTURLASER XA ULTIMATE - COMPLETE SYSTEM**

<table>
<thead>
<tr>
<th>CASE</th>
<th>TRANSMITTER T210</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight (incl. all standard parts):</strong></td>
<td>53.3 kg (117.1 lbs)</td>
</tr>
<tr>
<td><strong>Operating Temperature:</strong></td>
<td>-10 to 60°C (14 to 140°F)</td>
</tr>
<tr>
<td><strong>Storage Temperature:</strong></td>
<td>-20 to 70°C (-4 to 158°F)</td>
</tr>
<tr>
<td><strong>Relative Humidity:</strong></td>
<td>10 – 90%</td>
</tr>
<tr>
<td><strong>Dimensions:</strong></td>
<td>244 mm x 188 mm x 55 mm (9.6 in x 7.4 in x 2.1 in)</td>
</tr>
<tr>
<td><strong>Operating Temp:</strong></td>
<td>10 hours continuously</td>
</tr>
<tr>
<td><strong>Wireless Communication:</strong></td>
<td>3,6 AA (LR6) batteries</td>
</tr>
<tr>
<td><strong>Dimensions:</strong></td>
<td>79 mm x 77 mm x 33 mm (3.1 in x 3 in x 1.3 in)</td>
</tr>
<tr>
<td><strong>Relative Humidity:</strong></td>
<td>0 – 90%</td>
</tr>
<tr>
<td><strong>Weight:</strong></td>
<td>44 mm x 188 mm x 55 mm (9.6 in x 7.4 in x 2.1 in)</td>
</tr>
<tr>
<td><strong>Dimensions:</strong></td>
<td>97 mm x 47 mm x 36 mm (3.8 in x 1.85 in x 1.4 in)</td>
</tr>
<tr>
<td><strong>Wireless Communication:</strong></td>
<td>60 g (2.1 oz)</td>
</tr>
</tbody>
</table>

**DISPLAY UNIT**

| Material: | Anodized aluminum |
| Sealing: | Dust, water (5m/16 feet), and air tight with air pressure compensation valve |
| Drop Test: | 3 m (10 feet) onto concrete floor |
| Dimensions: | 505 x 420 x 230 mm (19.9 in x 16.5 in x 9.1 in) |
| **Dimensions:** | 4 pcs, 150 mm (5.9 in) extendable to 250 mm (9.8 in) |

**MEASURING UNITS**

| Housing Material: | Anodized aluminum and high impact ABS plastic over molded with TPE rubber |
| Operating Temp: | -10 to 60°C (14 to 140°F) |
| Relative Humidity: | 10 – 90% |
| **Dimensions:** | 4 pcs, 150 mm (5.9 in) extendable to 250 mm (9.8 in) |
| **Dimensions:** | 4 pcs, 150 mm (5.9 in) extendable to 250 mm (9.8 in) |

**WIRELESS PACKAGE**

| Material: | Polycarbonate plastic |
| Operating Temp: | -10 to 40°C (32 to 104°F) |
| **Dimensions:** | 222 x 100 x 33 mm (8.8 in x 3.9 in x 1.3 in) |
| **Dimensions:** | 650 mm class II diode laser |
| Weight: | 60 g (2.1 oz) |
| **Dimensions:** | 97 mm x 47 mm x 36 mm (3.8 in x 1.85 in x 1.4 in) |

**Power Supply:**

- Dual high performance rechargeable Li-ion batteries and external power supply

**External Interface:**

- 2 USB ports: 1 USB host port, 1.5 / 12 Mbps, OHCI v1.0 compliant
- 1 USB slave port, 12 Mbps
- 1 Ethernet 10/100BaseT RJ45

**Detector:**

- 650 mm class II diode laser

**Environmental Protection:**

- IP 65

**Dimensions:**

- 79 mm x 77 mm x 33 mm (3.1 in x 3 in x 1.3 in)

**Weight:**

- 222 g (7.8 oz) without batteries

**Storage Temperature:**

- 0°C to 70°C (32°F to 158°F)

**Operating Temp:**

- 10 to 60°C (14 to 140°F)

**Storage Temperature:**

- 5°C to 35°C (41°F to 95°F)

**Weight:**

- 434 g (15.3 oz) with batteries

**Battery Charger:**

- Battery charger XA

**Detector Resolution:**

- 0.02 mm

**Detector:**

- 2 pcs, 200 mm (7.9 in)

**Cable:**

- 2 pcs, 3 m (10 feet)

**Extension Fixture:**

- 4 pcs, 150 mm (5.9 in) extendable to 250 mm (9.8 in)

**V-Brackets:**

- V-fixture for chain, width 20 mm (0.79 in)

**Material:**

- Anodized aluminum

**Shaft Diameter:**

- Ø 20-450 mm (3/4 in - 18 in)

**Cables:**

- 2 pcs, 3 m (10 feet)

**WIRELESS COMMUNICATION:**

- 270 mm x 90 mm x 30 mm (10.6 in x 3.5 in x 1.2 in)

**Frequency:**

- 2.4 GHz (ISM band)

**Power Supply:**

- 2 batteries type LR6

**Dimensions:**

- 79 mm x 77 mm x 33 mm (3.1 in x 3 in x 1.3 in)

**Weight:**

- 222 g (7.8 oz) without batteries

**Storage Temperature:**

- 0°C to 70°C (32°F to 158°F)

**Temperature:**

- 5°C to 35°C (41°F to 95°F)

**Weight:**

- 222 g (7.8 oz) with batteries

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- Battery charger XA

**Detector Resolution:**

- 0.02 mm

**Detector:**

- 2 pcs, 200 mm (7.9 in)

**Cable:**

- 2 pcs, 3 m (10 feet)

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- 4 pcs, 150 mm (5.9 in) extendable to 250 mm (9.8 in)

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**Detector:**

- 2 pcs, 200 mm (7.9 in)

**Cable:**

- 2 pcs, 3 m (10 feet)

**Extension Fixture:**

- 4 pcs, 150 mm (5.9 in) extendable to 250 mm (9.8 in)