DATA SHEET DORADOOnova 1

MOVING LASER SYSTEM FOR PATIENT ALIGNMENT IN RT

DESCRIPTION
Precise patient marking, accurate planning and exact positioning are key factors for a successful treatment. Patient marking takes place during CT simulation (virtual simulation) and is required for reproducible treatment positioning on the LINAC.

DORADOOnova 1 laser system consists of one ceiling rail with a fixed and a movable laser module and two APOLLO crosshair laser for projecting red, green or blue lines to mark the patient in all three body planes.

SCOPE OF DELIVERY
- 1 ceiling rail with one movable laser for display of sagittal line and one fixed laser for display of transverse line
- 2 wall/post APOLLO crosshair laser to display transverse and coronal lines
- Remote control for laser adjustment
- Cable set consists of power cords and data cable
- Wilke Phantom for quality assurance

MOUNTING VERSIONS
You are free to select from five mounting versions to perfectly match your existing room situation.

OPTIONS (SUBJECT TO COSTS)
- Support system for false ceilings
- Support system for floor mounted units
- Bridge design

NOTES
- 12 months standard warranty
- Installation not included
## TECHNICAL DATA

### SYSTEM

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Wall (W × H × D)</th>
<th>Ceiling (W × H × D)</th>
<th>Post (W × H × D)</th>
<th>Bridge (customized, W × H)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>110 × 221 × 100 mm (4.3'' × 8.7'' × 3.9'')</td>
<td>1553 × 143 × 109.5 mm (61.1'' × 5.6'' × 4.3'')</td>
<td>225 × 1012-1512 mm × 167 (8.9'' × 39.8''-59.5'' × 6.6'')</td>
<td>2594-5000 mm × 2300-2800 mm (102.1''-197'' × 90.6''-110.2'')</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight</th>
<th>Wall</th>
<th>Ceiling</th>
<th>Post</th>
<th>Bridge</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.6 kg</td>
<td>23 kg</td>
<td>12 kg</td>
<td>approx. 100 kg</td>
</tr>
</tbody>
</table>

- International Protection Rating: IP20
- Operating temperature: 15 ... 30°C
- Ambient conditions: 35 ... 80 % rel. humidity, non-condensing
- Travel range (ceiling): 700 mm
- Travel speed (ceiling): up to 200 mm/s
- Positioning accuracy (ceiling): ± 0.1 mm
- Projection precision (ceiling): ± 0.5 mm at up to 4 m distance

### LASER

- Laser colour (typical wave length): red (638 nm), green (520 nm), blue (450 nm)
- Laser class: 2
- Focusable range: 1 ... 4 m
- Line length at 3 m distance: > 3 m
- Line width up to 4 m distance: < 0.5 mm (blue), < 1 mm (red, green)
- Max. laser output power: < 1 mW

### POWER SUPPLY

- External power supply: 100 ... 240 V AC, 50 ... 60 Hz
- Internal voltage: 24 V DC

### REMOTE CONTROL

<table>
<thead>
<tr>
<th>Dimensions (H × W × D)</th>
<th>163 × 63 × 21 mm (6.4'' × 2.5'' × 0.8'')</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>130 g</td>
</tr>
<tr>
<td>International Protection Rating</td>
<td>IP40</td>
</tr>
<tr>
<td>Power supply</td>
<td>6 V DC (4 batteries type AAA/LR 03/Micro, 1.5 V)</td>
</tr>
</tbody>
</table>

---

**LAP DORADO and LAP APOLLO are registered trademarks of LAP GmbH Laser Applikationen. Further redesignations of products or services may be registered trademarks of LAP GmbH or other organizations; their use by third parties may infringe the rights of the respective owners.**