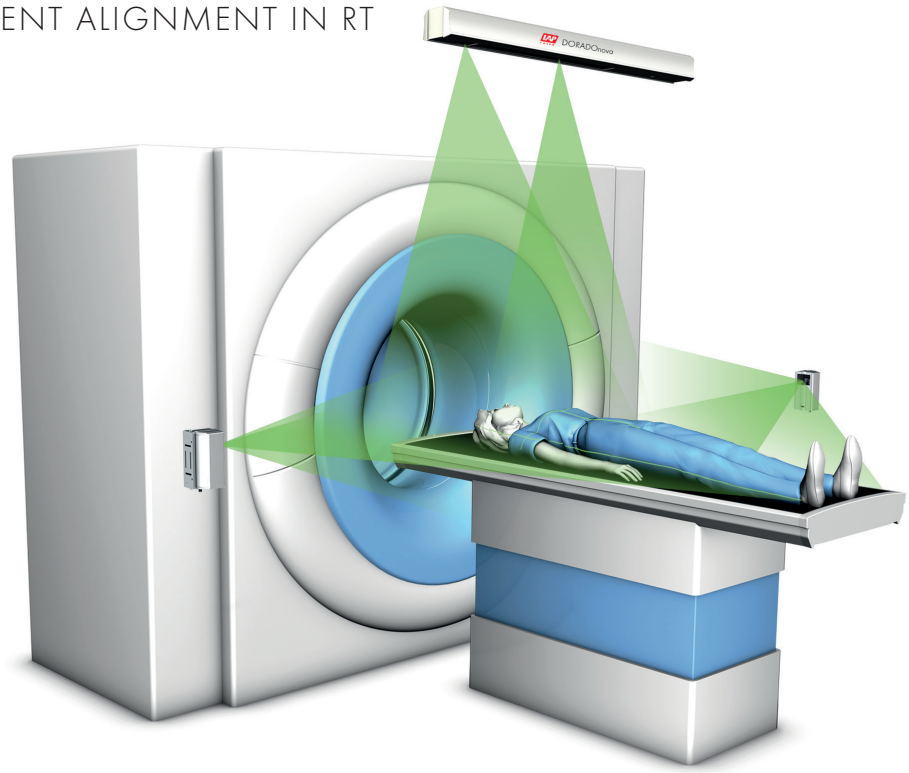
# DATA SHEET DORADOnova 1



## 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.

DORADOnova 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

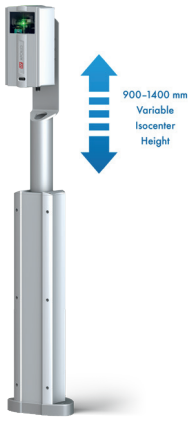
## SCOPE OF DELIVERY

- 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

**Laser Adjustment**

All 6 degrees of freedom can be adjusted via remote control

- Shift, tilt, rotation
- Focus




Optional: post mount

## MOUNTING VERSIONS

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

wall-ceiling-wall | post-ceiling-post | wall-ceiling-post | post-ceiling-wall | bridge

## 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 | | |
|---|---|---|
| Dimensions | wall (W × H × D)<br>ceiling (W × H × D)<br>post (W × H × D)<br>bridge (customized, W x H) | 110 × 221 × 100 mm (4.3'' x 8.7'' x 3.9'')<br>1553 × 143 × 109.5 mm (61.1'' x 5.6'' x 4.3'')<br>225 x 1012-1512 mm x 167 (8.9'' x 39.8''-59,5'' x 6.6'')<br>2594-5000 mm x 2300-2800 mm (102.1''-197'' x 90.6''-110.2'') |
| Weight | wall<br>ceiling<br>post<br>bridge | 2.6 kg<br>23 kg<br>12 kg<br>approx. 100 kg |
| 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 accuracy (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 | |
|---|---|
| Dimensions (H × W × D) | 163 × 63 × 21 mm (6.4'' x 2.5'' x 0.8'') |
| Weight | 130 g |
| International Protection Rating | IP40 |
| Power supply | 6 V DC (4 batteries type AAA/LR 03/Micro, 1.5 V) |

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