

LASER SYSTEM FOR PATIENT POSITIONING AT MRI

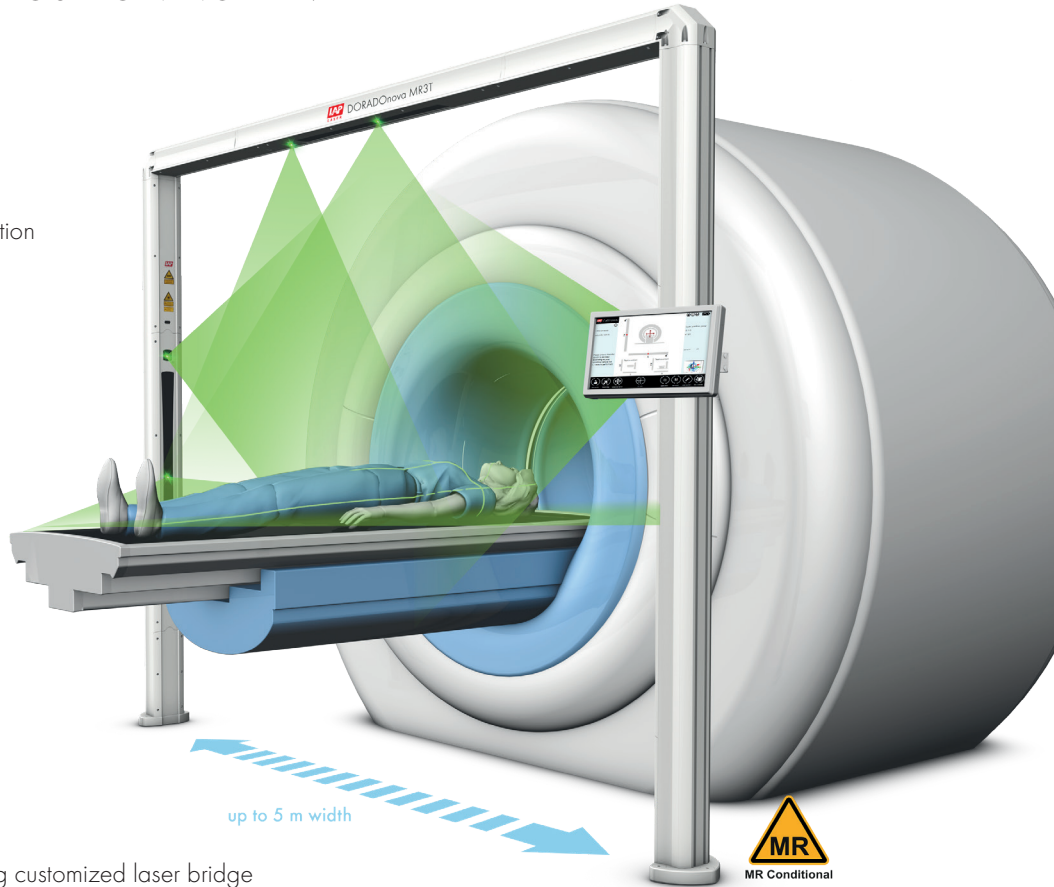
DESCRIPTION

The customized laser bridge system LAP DORADOnova MR3T is used for patient positioning at MRI for a corresponding projection of laser lines according to CT position.

The sagittal and coronal planes are steerable by the included **CARINAnav laser control**, allowing easy and efficient patient alignment. The control software is operated by a touch screen mounted to the customized bridge, for easy laser control in the MR room.

The fibre optic connection to the PC in the control room fulfills the electromagnetic interference requirements for MR.

The LAP DORADOnova MR3T System is certified for MRI devices up to 3 Tesla.



SAFETY FIRST

- Our free standing customized laser bridge systems compensate for all magnetically induced displacement forces
- All electronic components have no impact on the MR image quality

SCOPE OF DELIVERY

- LAP DORADOnova MR3T laser bridge
- 15.6" touch screen
- Computer with laser control software CARINAnav
- Remote control
- Power Supply Unit
- Cable set + **interface converters**

NOTES

- 12 months standard warranty
- Installation not included



Laser Adjustment

All 6 degrees of freedom can be adjusted via remote control

- Shift, tilt, rotation
- Focus

TECHNICAL DATA

| SYSTEM | DORADOnova MR3T Bridge |
|------------------------------------|--|
| Dimensions (customized) | Width: 2594-5000 mm (102.0"-196.9"), Height: 2300-2800 mm (90.6"-110.0") |
| Weight | approx. 100 kg |
| International Protection Rating | IP20 |
| Operating temperature | 15 ... 30°C |
| Ambient conditions | 35 ... 80 % rel. humidity, non-condensing |
| Travel range | 700 mm |
| Travel speed | up to 200 mm/s |
| Positioning accuracy | ± 0.1 mm |
| Projection precision | ± 0.5 mm 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 |
| LASER CONTROL | |
| Operating system | MS Windows 10 |
| Laser control software | CARINAnav |
| Touch screen size | 15.6", Aspect ratio: 16:9 |
| Touch screen resolution | 1,680 x 1,050 at 60 Hz |
| POWER SUPPLY | |
| External power supply | 110 ... 240 V AC, 50 ... 60 Hz |
| Internal voltage | 24 V DC |
| REMOTE CONTROL | |
| Dimensions (H x W x D) | 163 x 63 x 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/LG 03/Micro, 1.5 V) |



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