Data Sheet

DORADOnova MR3T

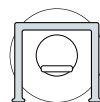Remotely adjustable movable laser bridge for patient positioning in an MRI environment

Features

- Optimal for matching with CT images so that no or less application of rigid and deformable image registration algorithms are necessary. Perfect for the MR-only workflow, as all patient marking workflows can be applied at the MRI.

- The components are MR conditional up to 3T and can be used without impact on the imaging. Hence. they are perfectly suitable for your magnetic environment.

- Reliable due to the failsafe system, an independent double position check which ensures that lasers only turn on if they are in the correct position.

- Precise with a positioning accuracy of ± 0.1 mm and a projection precision of ± 0.5 mm at a distance of 4 m.

Configurations

- DORADOnova MR3T laser system, consisting of one ceiling and two post rails with fixed and movable lasers, projecting a movable sagittal and coronal and fixed transversal line to mark the patient in all three body planes.

- Laser color: red, green or blue

Mounting options

Bridge

/ Simply
Precise

Laser

Dimensions (L × H) (Customized)	2594–5000 × 2300–2800 mm 102.1–196.9 × 90.6–110.2 ″
Weight	Bridge: approx. 100 kg
Power supply	100–240 V AC, 50–60 Hz
Power supply (internal)	24 V DC
Laser color	red (638 nm), green (520 nm), blue (450 nm)
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)
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
Ambient conditions	35–80 % rel. humidity, non-condensing
Operating temperature	15–30 °C
International protection rating	IP 20
Approved	A CE conformity assessment according to the European Medical Device Regulation MDR – (EU) 2017/745 was carried out successfully. The device is cleared in the USA under 510(k) K173926.
Laser class	2
Laser power	<1 mW

Remote control

Dimensions (L × W × H)	181 × 49 × 21 mm 7.1 × 1.9 × 0.8 ″
Weight	130 g
Power supply	3 V DC (2 batteries type AAA/ LR 03/Micro, 1.5 V)
International protection rating	IP 40

CARINAnav MR

Included control system for intuitive laser steering. Find out more:

Accessories

Optional accessories available, please refer to acessory overview:

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 post rails, each with one movable laser to display the coronal lines and one fixed laser for display of transverse lines
- Computer with laser control software CARINAnav MR
- 15″ touch screen
- Cable set consists of data cable and interface converters
- Power supply unit
- Remote control for laser adjustment
- 12 months standard warranty

MR conditional

Certified by **MR·comp**

MD

made in Germany

LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT
ACC TO EN/IEC 60825-1:2014; Pmax/CS1mW; λ=515-550 nm
Complies with 21 CFR 1040.10 and 1040.11
except for deviations pursuant to
Laser Notice No. 50, dated June 24, 2007.

LAP GmbH Laser Applikationen
Zeppelinstr. 23
21337 Lüneburg
Germany
P   +49 4131 95 11-95
E   info@lap-laser.com

www.lap-laser.com/doradonova-mr3t