

Basic solution

## Data Sheet

# DORADO 1

## Manually adjustable movable laser system for patient positioning at CT/PET-CT

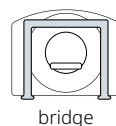
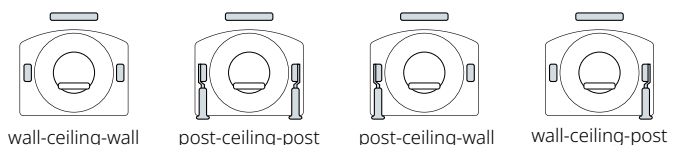
### Features

- Optimal to mark a reference point at the patient.
- Precise with a positioning accuracy of  $\pm 0.1$  mm and a projection precision of  $\pm 0.5$  mm at a distance of 4 m.
- 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.
- Practical laser adjustment via Allen® key: Focus, rotate, tilt or shift the lasers as needed.
- Aesthetic for your room situation: Install your lasers safely, practically and aesthetically with the optional accessories.

### Configuration

- DORADO 1 laser system, consisting of one movable ceiling rail and two ASTOR crosshair lasers, projecting a movable sagittal, fixed coronal and transversal line to mark the patient in all three body planes.
- Laser color: red

### Mounting options



## Laser

<b>Dimensions devices (L × W × H)</b>	Wall: 182 × 86 × 93 mm 7.2 × 3.4 × 3.7 "
	Ceiling: 1553 × 143 × 109.5 mm 61.1 × 5.6 × 4.3 "
	Post: 1012–1512 × 225 × 167 mm 39,8–59,5 × 8,9 × 6,6 "

<b>Dimensions bridge (L × H) (Customized)</b>	2594–5000 × 2300–2800 mm 102.1–196.9 × 90.6–110.2 "
---	--

<b>Weight</b>	Wall: 1.4 kg
	Ceiling: 23 kg
	Post: 15 kg
	Bridge: approx. 100 kg

<b>Power supply</b>	100–240 V AC, 50–60 Hz
---------------------	------------------------

<b>Power supply (internal)</b>	24 V DC
--------------------------------	---------

<b>Laser color</b>	red (638 nm)
--------------------	--------------

<b>Focusable range</b>	1–4 m
------------------------	-------

<b>Line length at 3 m distance</b>	>3 m
------------------------------------	------

<b>Line width up to 4 m distance</b>	<1 mm
--------------------------------------	-------

<b>Travel range</b>	700 mm
---------------------	--------

<b>Travel speed</b>	up to 200 mm/s
---------------------	----------------

<b>Positioning accuracy</b>	±0.1 mm
-----------------------------	---------

<b>Projection precision</b>	±0.5 mm up to 4 m distance
-----------------------------	----------------------------

<b>Ambient conditions</b>	35–80 % rel. humidity, non-condensing
---------------------------	---------------------------------------

<b>Operating temperature</b>	15–30 °C
------------------------------	----------

<b>International protection rating</b>	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 listed in the FDA Medical Devices Database and legally marketed in the USA.

<b>Laser class</b>	2
--------------------	---

<b>Laser power</b>	<1 mW
--------------------	-------

### 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 ASTOR crosshair laser to display transverse and coronal lines
- Cable set consists of power cords and data cable
- WILKE Phantom for quality assurance
- 12 months standard warranty

LAP GmbH Laser Applikationen

Zeppelinstr. 23

21337 Lüneburg

Germany

P +49 4131 95 11-95

E info@lap-laser.com

### CARINAnav

The associated control system for intuitive laser steering. Find out more:



### Accessories

Optional accessories available, please refer to accessory overview:

