

## HITS-D-X, HITS-D-Y and HITS-D-XY

The **HITS-D-X**, **HITS-D-Y** and **HITS-D-XY** mobile lasers are precision alignment solutions for patient setup in the field of radiation therapy. The units create one or two manually adjustable laser planes by projecting high-quality red, green or blue laser lines. When combined with other similar units, this allows the creation of a virtual isocenter in all three body planes.

The **HITS-D-XY** crosshair model features two independently adjustable orthogonal laser planes.

### Features

- High-accuracy positioning
- Single-plane or crosshair
- 3 degrees of freedom per plane: translation, tilt and rotation
- Red, green or blue high-quality laser line module for each plane
- Easy by-screw adjustment from the outside
- Flexible on-wall, in ceiling or on post mounting
- Usable with MRI/MR-Linac machines
- MR conditional

### Applications

- Patient setup and marking during MRI or CT/PET simulation
- Patient alignment and setup for external beam radiation therapy

### Technical specifications

Power supply.....	100–240 V <sub>AC</sub> @ 50/60 Hz
Power consumption .....	49 W max.
Internal voltage .....	12 V <sub>DC</sub>
Operating humidity .....	≤ 80%, non-condensing
Operating temperature .....	15–30 °C
Dimensions (H×W×D) .....	205×220×97 mm
Weight (HITS-D-X, HITS-D-Y) .....	3.9 kg
Weight (HITS-D-XY) .....	4 kg

### Laser output\*

Laser class .....	2
Output power** .....	< 1 mW
Focus range .....	1.5–7 m
Line width .....	≤ 1 mm @ 4 m
Line length .....	≥ 4 m @ 4 m

\* with laser modules **WLCxxx-5-LGCP**, not included (see separate datasheet)  
 \*\* measured on a 7 mm aperture at 100 mm

### Mechanical

Adjustment accuracy .....	±0.1 mm @ 3 m
Translation range .....	0–18 mm
Translation resolution .....	0.5 mm/turn
Tilt range .....	±3.6 deg
Tilt resolution .....	30 µm/m
Rotation range .....	±3.5 deg
Rotation resolution .....	50 µm/m



### External connections

The **HITS-D** units embed an IEC/EN 60601-1 compliant 100–240 V<sub>AC</sub> IEC inlet.

### Related products

<b>AXE950IRM</b>	Motorized long-range MR alignment laser
<b>AXE900</b>	Motorized long-range medical alignment laser
<b>HITM-XY</b>	Motorized medical alignment crosshair lasers
<b>HITM-X</b>	Motorized medical alignment horizontal lasers
<b>HITM-Y</b>	Motorized medical alignment vertical lasers
<b>WLC635-5-LGCP</b>	Modulated red laser-line module
<b>WLC532-5-LGCP</b>	Modulated green laser-line module
<b>SF-CT</b>	5-plane CT laser alignment smart-phantom
<b>SF-RTH</b>	5-plane LINAC laser alignment smart-phantom

### Ordering codes

<b>HITS-D-X*</b>	Horizontal-plane model
<b>HITS-D-Y*</b>	Vertical-plane model
<b>HITS-D-XY*</b>	Dual-plane model (crosshair)

\* laser modules not included (see **WLCxxx-5-LGCP**)