

Motorized Long-Range Medical Alignment Laser

AXE900

The **AXE900** motorized laser is a precision alignment solution for patient setup in the field of radiation therapy. The unit creates a remote-controlled adjustable laser plane by projecting a single high-quality red, green or blue laser line. When combined with other similar units, this allows the creation of a virtual isocenter in all tree body planes.

Features

- High-accuracy positioning
- Radio or cabled PC remote control
- 3 degrees of freedom: translation, tilt and rotation
- Long-range translation: 550 mm travel distance
- Securized translation: belt drive with magnetic linear encoder
- Dual laser: two laser lines modules of any color
- Flexible on-wall, in ceiling or on post mounting

Applications

Patient setup and marking during CT/PET simulation

Technical specifications
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Weight 5.3 kg
Laser output *
Laser class 2 Output power** <1 mW
Mechanical
Adjustment accuracy

Connectivity

Physical layer	RS485 or radio*
•	115200 Baud
Protocol	proprietary
5 Vnc outnut	100 mA max



External connections

The **AXE900** unit embeds a DB9 male connector for communication and an IEC/EN 60601-1 compliant 100-240 V_{AC} IEC inlet.

DB9 connector	Function
1	5 V _{DC} power supply output, 100 mA max.
5	Ground
8	RS485 L+ (high for logic 1, low for logic 0)
9	RS485 L- (low for logic 1, high for logic 0)

Related products

AXE950IRM	Motorized long-range MRI alignment laser
HITM-XY	Motorized medical alignment crosshair lasers
нітм-х	Motorized medical alignment horizontal lasers
HITM-Y	Motorized medical alignment vertical lasers
HITSD-XY	Manual medical MR alignment crosshair lasers
HITSD-X	Manual medical MR alignment horizontal lasers
HITSD-Y	Manual medical MR alignment vertical lasers
WLC635-5-LGCP	Modulated red laser-line module
WLC532-5-LGCP	Modulated green laser-line module
SF-CT	5-plane CT laser alignment smart-phantom
SF-RTH	5-plane LINAC laser alignment smart-phantom
RDB9-2.4G	Radio to RS485 ATB protocol converter
USBRF-2.4G	Radio to USB ATB protocol converter
ISOUSB485	USB to RS485 isolated serial converter

Ordering code

AXE900*	Standard model

^{*} laser modules not included (see WLCxxx-5-LGCP)

^{*} with the RDB9-2.4G external adapter