

The **CLAS-1** mobile laser system is a precision alignment solution for patient setup and marking in the field of radiation therapy. The system creates a **motorized, remotely adjustable** 3D reference in the Cartesian space by means of 5 high quality laser planes.

Features

- Five laser planes
- High-accuracy positioning
- 550 mm travel distance for the long-range unit
- Dual laser: two laser lines modules of any color
- Radio or cabled PC remote control
- Flexible on-wall, in ceiling or on post mounting

Composition

The **CLAS-1** system includes 1 long-range unit, 2 short-range XY units and accessories:

- one **AXE900** long-range unit for the sagittal (longitudinal) plane
- one **AXE20-XY** short-range crosshair unit for the left coronal (transverse) and axial (horizontal) planes
- one **AXE20-XY** short-range crosshair unit for the right coronal (transverse) and axial (horizontal) planes
- five **WLC635-5-LGCP** red line laser modules
- five **WLC532-5-LGCP** green line laser modules
- three **RDB9-2.4G** radio modules
- one **USBRF-2.4G** radio module for the PC

Ordering code ^{1, 2, 3}

CLAS-1	1 long-range unit + 2 short-range XY units + accessories
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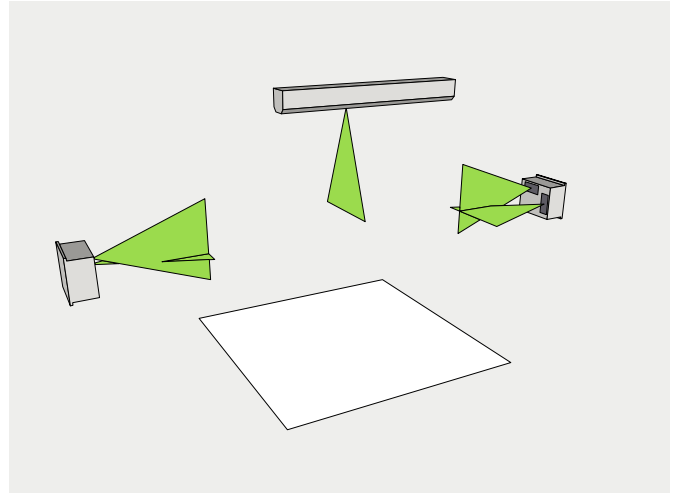
¹ The power cord must be provided by the local distributor.

² The focal length of the laser modules must be provided according to their datasheets.

³ This is a base configuration that can be customized according to the installation requirements.

Related products

CLAS-0	1 short-range unit + 2 short-range XY units + accessories
CLAS-3	3 long-range units + 2 short-range X units + accessories
CLAS-5	5 long-range units + accessories
CLAS-F	1 manual X unit + 2 manual XY units + accessories



Technical specifications

Power supply	100 ÷ 240 V _{AC} @ 50/60 Hz
Power consumption	49 W max. per unit
Internal voltage	12 V _{DC}
Operating humidity	≤ 80%, non-condensing
Operating temperature	15 ÷ 30 °C
Dimensions (AXE900, H×W×D)	98×920×102 mm
Dimensions (AXE20, H×W×D)	205×220×107 mm
Weight (AXE900)	5.3 kg
Weight (AXE20-XY)	4.7 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

* measured on a 7 mm aperture at 100 mm

Mechanical

Adjustment accuracy	±0.1 mm @ 3 m
Translation range (AXE900)	0 ÷ 550 mm
Translation range (AXE20)	0 ÷ 20 mm
Translation resolution (AXE900)	15 µm/step
Translation resolution (AXE20)	2.5 µm/step
Tilt range	±2.2 deg
Tilt resolution	25 µm/m
Rotation range	±3.5 deg
Rotation resolution	40 µm/m

Connectivity

Physical layer	RS485 or radio *
Data rate	115200 Baud
Protocol	proprietary
5 V _{DC} output	100 mA max.

* with the **RDB9-2.4G** external adapter