

## 5-Plane Laser Alignment Smart-Phantom

SF-CT

The **SF-CT** smart-phantom is a laser alignment solution for patient setup in the field of radiation therapy. The unit is used in conjunction with the AXE9xx and HITM motorized laser line generators and allows for high-precision automatic alignment of up to 5 scanner related laser planes (4 lateral and one sagittal).

The phantom is connected to a PC via USB or to a RS485 network by cable or using the optional RDB9-2.4G radio converter.

## **Features**

- Designed for CT/PET scanners
- High-accuracy detection of 2 transverse, 2 coronal and 1 sagittal plane
- Automatic adjustment of the 5 planes via PC software
- Precise micrometric alignment with the isocenter of the machine using embedded Plexiglas reference markers.
- Radio or cabled communication

## **Applications**

- Automatic alignment of laser lines
- Validation of alignment

Technical specifications

\* with the RDB9-2.4G external adapter

| Power supply (via USB) | $5 V_{DC} \pm 10\% / 200 \text{ mA max}$ . |
|------------------------|--|
| Power consumption      | 1 W max.                                   |
| Operating humidity     | ≤ 80%, non-condensing                      |
| Operating temperature  | 15–30 °C                                   |
| Dimensions (H×W×D)     | 350×520×350 mm                             |
| Weight                 | 5.3 kg                                     |
| Laser detection        |  |
| Range                  | ±3 mm                                      |
| Resolution             |  |
| Number of planes       | 5  |
| Number of sensors      | 12   |
| Connectivity           |  |
| Physical layer         |  |
| Data rate              | 115200 Baud                                |
| Protocol               | proprietary                                |
| 5 Voc output           | 100 mA max.                                |

E.V. 100/ / 200





## **External connections**

Related products

USBRF-2.4G

ISOUSB485

The SF-CT unit embeds a DB9 male connector for the optional RDB9-2.4G adapter and a Type-B USB receptacle for power supply and PC connectivity.

| DB9 connector | Function   |
|---------------|--|
| 1             | 5 V <sub>DC</sub> 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)       |

|               | _   |
|---------------|---|
| AXE950IRM     | Motorized long-range MR alignment laser       |
| AXE900        | Motorized long-range medical alignment laser  |
| HITM-XY       | Motorized medical alignment crosshair lasers  |
| HITM-X        | Motorized medical alignment horizontal lasers |
| НІТМ-Ү        | 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-RTH        | 5-plane LINAC laser alignment smart-phantom   |
| RDB9-2.4G     | Radio to RS485 ATB protocol converter         |
|               |   |

| Ordering codes |                |
|----------------|----------------|
| SF-CT          | Standard model |

Radio to USB ATB protocol converter

USB to RS485 isolated serial converter