



## Data Sheet

# LUNA 3D

## Surface imaging for patient positioning and monitoring in radiation therapy

### Features

- Robust multi-camera pod calibration to reduce the impact of camera blockage
- Expanded field of view allows therapists to set up the patient at a comfortable loading position and in a more ergonomic way
- The virtual laser tool mimics the positioning laser in the room, resulting in LUNA 3D being as easy to use a laser
- The browser-based software architecture makes it possible to access data when and where needed, independent of hardware

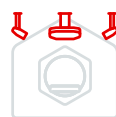
### Configurations



1 camera system for patient breathing coaching and motion recording during CT-SIM



3 camera system for patient positioning and motion monitoring even for non-coplanar treatments. Patient positioning support also in pre-treatment position below isocenter for ergonomic position



4 camera system for reliable patient positioning at bore-type LINACs and motion monitoring with patient in isocenter

## System

Camera frame rate	>12 Hz
Latency 6DOF registration 1 & 3 Pod system	<250 ms
Latency 6DOF registration 4 pod system	<275 ms
Registration algorithm	Rigid body
Shift accuracy* 1 pod system	<1.5 mm
Shift accuracy* multi pod system	<0.5 mm
Rotation accuracy* 1 pod system	<0.5 °
Rotation accuracy* multi pod system	<0.5 °
Measurement volume	longitudinal ≥ 130cm, lateral ≥ 70cm, vertical ≥ 60cm
Ambient conditions	15–30 °C, 25–80 % rel. humidity, non-condensing
Power supply (distribution box)	100–240 V AC, 50–60 Hz
Operating system	Windows 10 IoT, Windows Server 2022, iOS / iPadOS 16

\*Maximum deviation from the actual shift/rotation

## Camera Pod

Dimensions (L × W × H) (without holding arm and ceiling mount)	540 × 245 × 90 mm
Weight (without holding arm and ceiling mount)	6.4 kg
Power supply (internal)	24 V DC
International protection rating	IP 20
Projection wavelength	465 nm
Approved	LUNA 3D has successfully passed the European CE conformity assessment procedure and is cleared in the USA under 510(k) K232031

## Scope of delivery

- LUNA 3D camera pod(s)
- LUNA 3D Desktop PC
- Setup Screen
- Calibration plate
- Tablet
- SGRT PC
- WLAN access point
- Distribution box
- Coaching screen
- Setup PC
- Camera pod verification plate

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