Planmed XFI®

ENGLISH

Planmed

Planmed XFI® – the new point of view

Are you ready for a new perspective?

- The need for 3D MSK imaging is rapidly increasing, yet access to MRI and CT imaging is limited
- Shorter immobilization, faster recovery, and better treatment outcome with CT imaging of suspected fractures
- Ultra-high resolution is required for the most delicate bony structures
- Functional full-body CT imaging has not been previously available

Introducing the world's first full-body weight-bearing CT

- Low dose cone beam CT technology [1, 2]
- Higher resolution than MDCT
- Cost-efficient
- Small footprint
- Dynamic functional imaging

Applications

- MSK imaging
- Orthopedic treatment planning
- Maxillofacial imaging
- Head and neck imaging
- Full-body weight-bearing CT

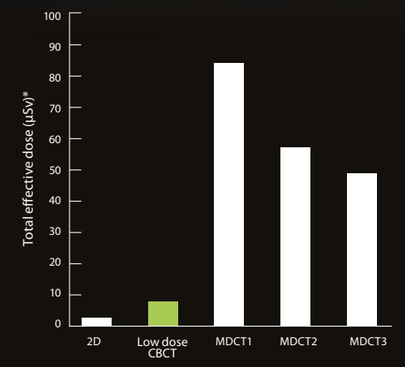
Full-body weight-bearing CT at a low dose

Visualize changes in 3D

Imaging under natural conditions is essential for correct treatment decisions and surgery planning.

ALADA dose

Cone beam technology uses lower radiation doses than MDCT systems [2].



References

1. Posadzy M, Desimpel J, Vanhoenacker F. Cone beam CT of the musculoskeletal system: clinical applications. Insights Imaging. 2018 Feb;9(1):35-45. doi: 10.1007/s13244-017-0582-1. Epub 2018 Jan 4. PMID: 29302798; PMCID: PMC5825310.

2. Juha Koivisto, Maureen van Eijnatten, Timo Kiljunen, Xie-Qi Shi, Jan Wolff, Effective Radiation Dose in the Wrist Resulting from a Radiographic Device, Two CBCT Devices and One MSCT Device: A Comparative Study, Radiation Protection Dosimetry, Volume 179, Issue 1, April 2018, Pages 58–68, https://doi.org/10.1093/rpd/ncx210

Technical specifications

General

- Full-body weight-bearing CT
- 2D imaging capability
- Motorized patient table
- Laser-guided positioning
- Projected Information Display (PID)

Control station

- Remote control
- AWS

Connectivity

- DICOM 3.0 compatibility
- RIS and PACS integration

Detector

- Large FPD 43 x 43 cm
- Up to 75um resolution
- SID 108 cm
- Isotropic resolution
- Scan time <10s
- 360-degree rotation

X-ray tube and generator

- Ultra low dose mode
- 80–140 kV
- 5–100 mA
- Automatic Exposure Control (AEC)

Image processing

- Artifact and movement correction
- Cast suppression algorithm
- Metal suppression

Electrical requirements

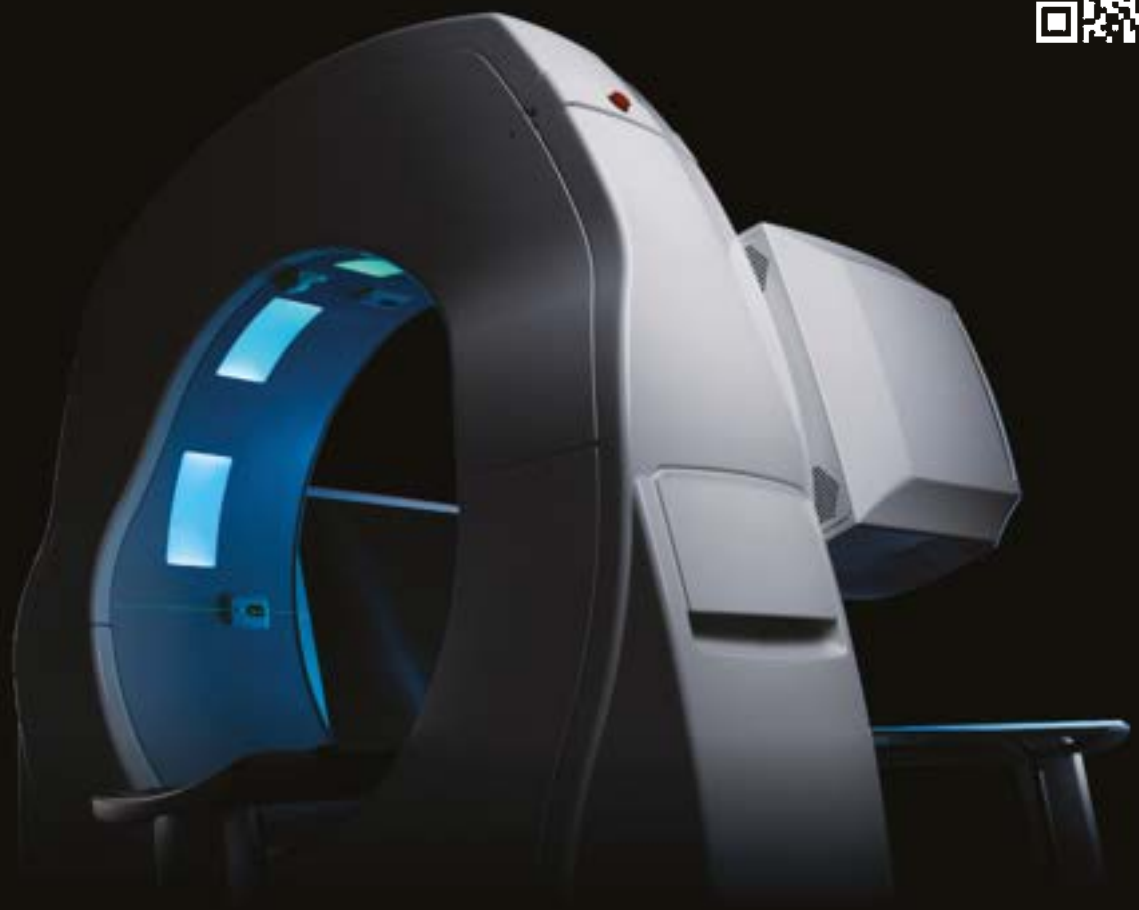
- Line voltage 180-240 V / 50 Hz
- Line current 16A

Dimensions

- Bore 85 cm, FOV up to 23 x 44cm
- L x H x W: 248 cm x 176 cm x 162 cm
- Weight ca 550 kg

Technical specifications are subject to change.
Planmed XFI is not CE or FDA marked and not available for sale yet.

Planmed Oy



Planmed

Planmed Oy | Sorvaajankatu 7 | 00880 Helsinki | Finland | tel. +358 20 7795 300 | fax +358 20 7795 664 | sales@planmed.com | www.planmed.com

3004000B/0923/en