

# Planmed XFI<sup>®</sup>



# 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

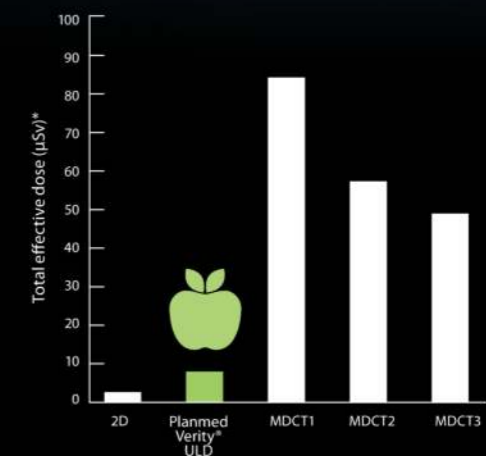


## Visualize changes in 3D

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

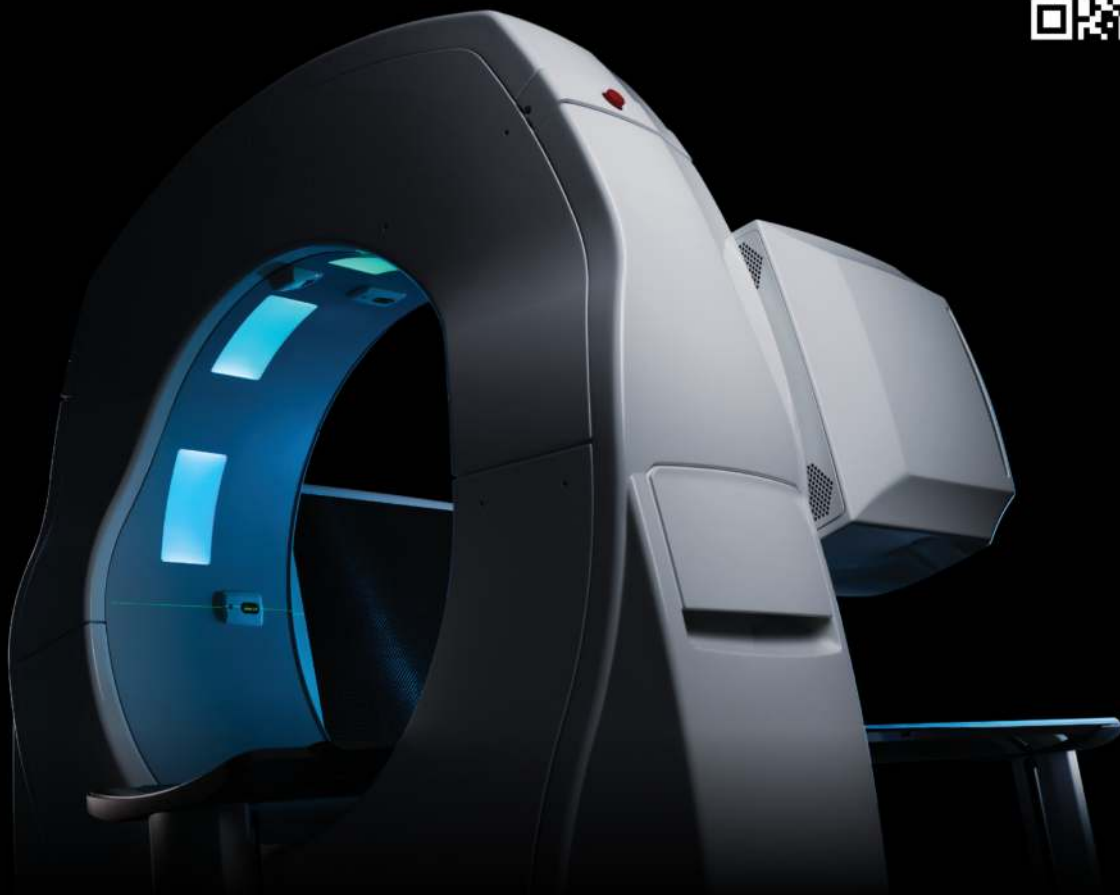
- Line voltage 180-240 V / 50 Hz
- Line current 16A

## 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.



# Planmed

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