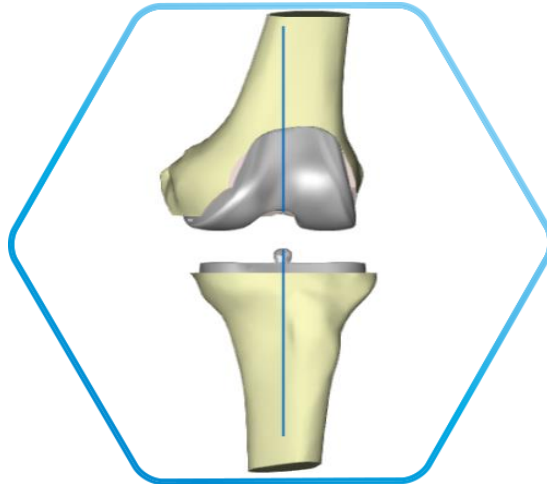


CT-SCAN Protocol

oneFIT Knee Planner



oneFIT knee Planner is a medical device, manufactured by oneFIT Medical, CE marked.

Link : <https://onefit-online.com>

Acquisition SCANNER for oneFIT Knee Planner

This document contains the parameters and conditions to follow to obtain the desired quality of CT-Scan images. These images are used to design a 3D model reconstruction of the knee joint and realize Patient Specific Instrumentation for the total knee replacement surgery.

1 General overview

Pour chaque cas, suivre les indications suivantes :

- Save the protocol with the name “OneFit Medical”
- **Do not reinitialize the coordinate system between each scans**
- The (x,y) coordinates must match from one slice to another
- Each sequence is saved separately: knee, ankle and hip
- The pixel size is stable
- No movement allowed from the patient
- Do not move the table during the acquisition
- In case of contralateral implant, exclude the contralateral knee from the acquisition by bending the leg
- **Perform a scout of the entire leg**



2 Regions of interest

We are looking for 3 anatomical areas:

2.1 Femoral Head

- Anatomical landmark: None
- Maximum slice thickness: **2.5mm**
- Scanning area: entire femoral head

2.2 Knee

- Anatomical landmark: patella apex and tibial tuberosity
- Maximum slice thickness: **1mm**
- Scanning area: 12cm on each side of the joint line

2.3 Ankle

- Anatomical landmark: malleoli
- Maximum slice thickness: **2.5mm**
- Scanning area: 5cm above distal tibia until the most distal tibial point

2.4 Rergrading the other parameters:

- **Field of View (FOV): 200mm (maximum 260mm if necessary)**
- Reconstruction matrix: 512*512
- Interlaced or contiguous slices
- Reconstruction algorithm: Standard or Soft tissue
- Use filter is possible :

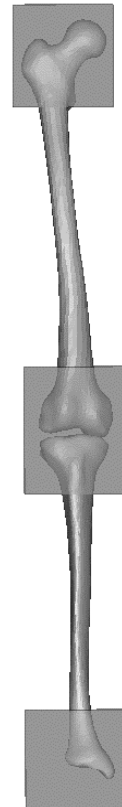
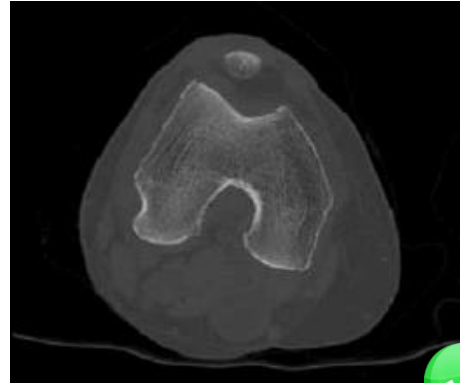
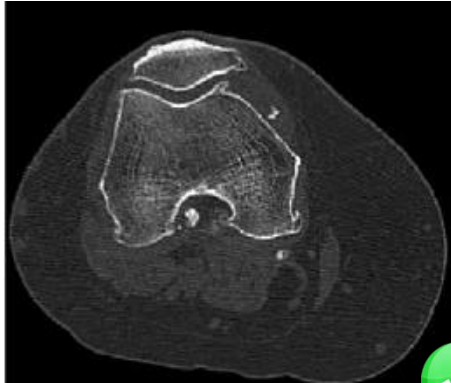


Table: Recommended filters for 3D reconstruction.

Manufacturers	GE	Philips	Toshiba
Filters	STANDARD BONE	B	Fc04 Fc08 Fc35

3 Images Examples

Pictures below display the required image quality with perfectly clear contrast. Edges between bones and surrounding soft tissues are easily visualized.



4 Contact

DICOM Images can be delivered at our Production Department by post mail to the address below or directly uploaded on our secured website: www.onefit-online.com

For upload, images have to be compressed into one standard zip or rar file format.

For any question, additional information or remark, you can contact us at:

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