



HipOpRX[©]
SURGICAL PLANNING SYSTEM

USER MANUAL
FOR VERSION 1.0

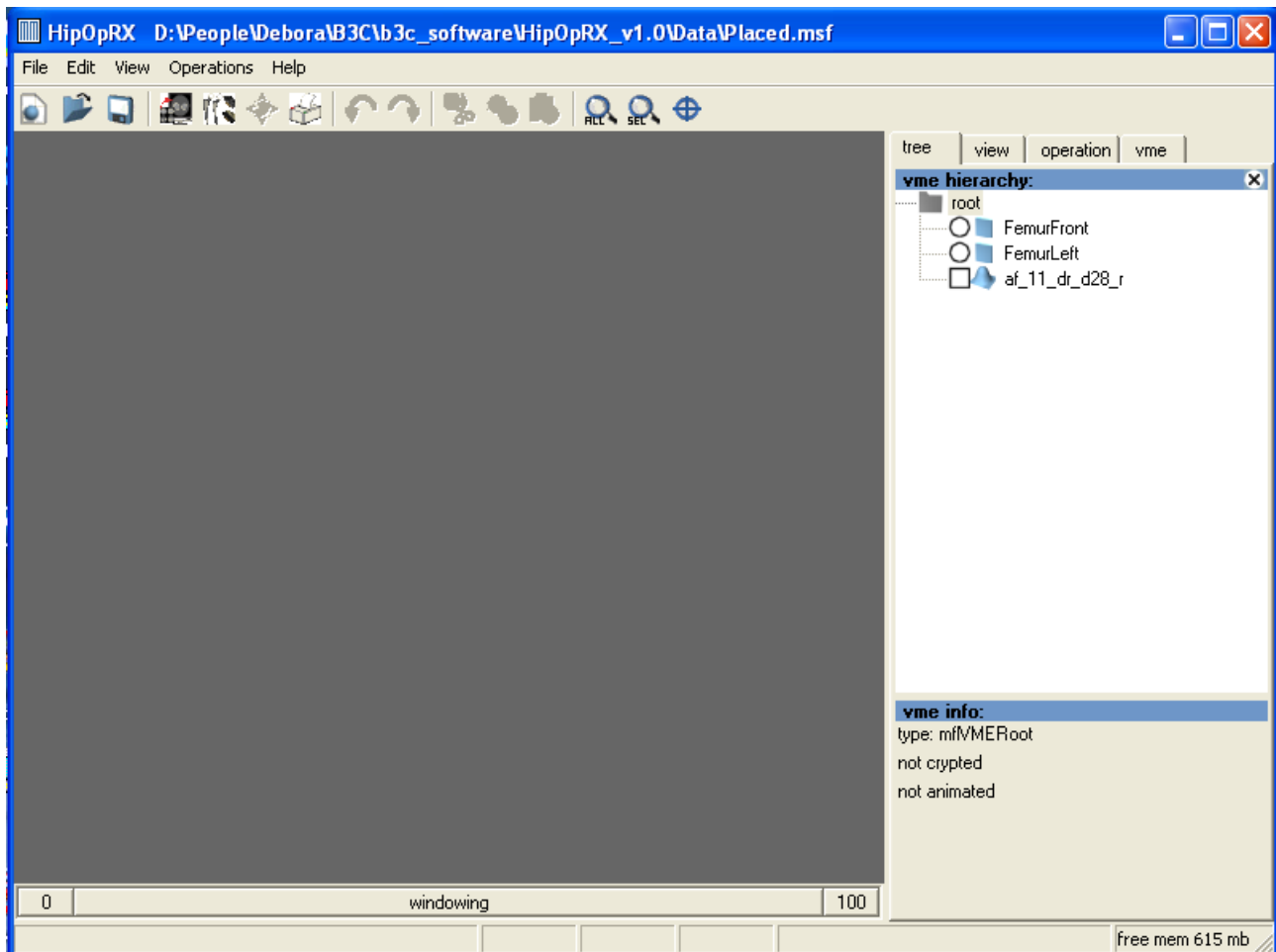
GENERAL

Left mouse button: rotations

Central mouse button: translations/pan

Right mouse button: zoom

The interface of the application:



On the right side of the interface all imported objects are listed in a tree. Here the user can select what to visualise or not.

MENU FILE

Open

Open a file saved in the HipOpRX storage format (msf extension).

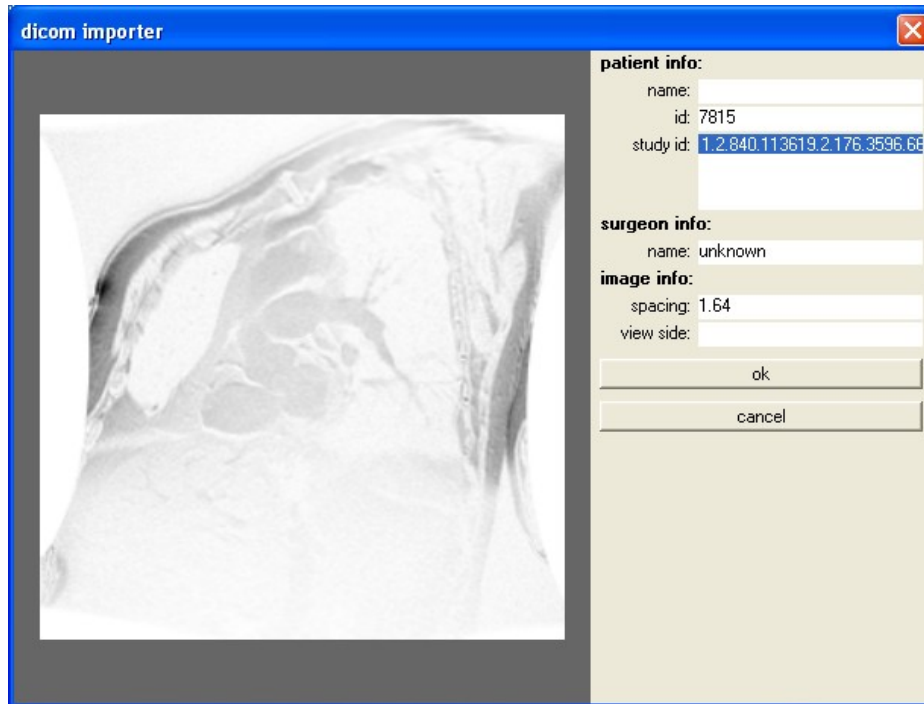
Save/Save as

Save a RX images in the HipOpRX storage format together with all information about the planning (chosen components in the planned position).

Import

Dicom

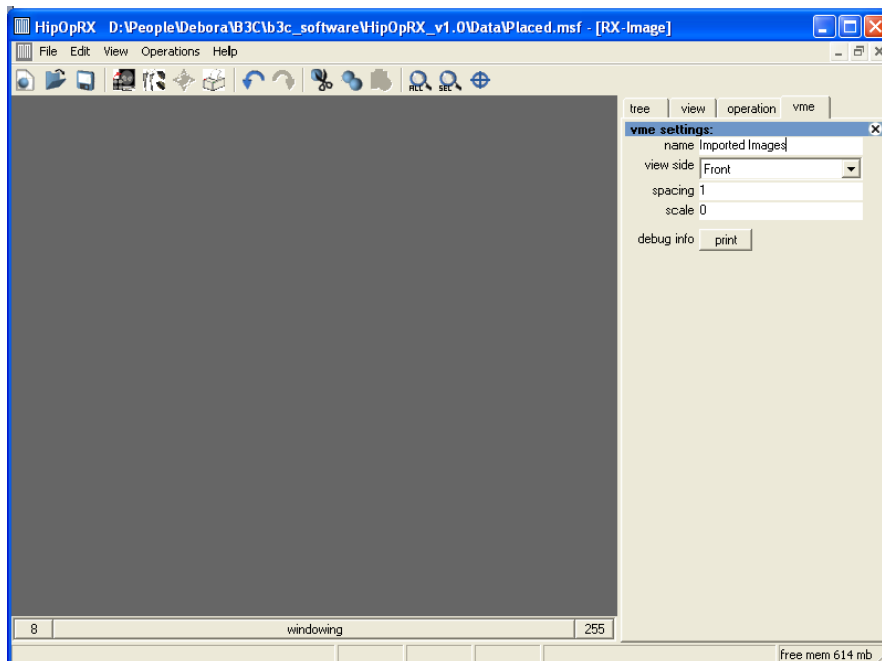
Read a DICOM RX images and import it into the program. HipOpRX cannot load compressed DICOM files. Together with the image also the name of the patient and spacing are automatically imported from the DICOM header.



The user can also specify the name of the surgeon performing the planning to be stored and the side to be planned.

Image

Read an image file in standard formats: bmp, png, jpg, tiff. Scale, resolution and side of the image can be assigned after importing selecting the image and going to the Vme panel.



VTK

Read an image in VTK file format. Scale, resolution and side of the image can be assigned after importing selecting the image and going to the Vme panel.

Recent files

Keeps the list of the most recent files opened or saved.

Quit

Quit the HipOpRX program.

MENU EDIT

Undo

Cancel the effects of the last issued command.

Redo

Re-apply the effects of the last issued command.

MENU VIEW

Fit

Adapts the visualisation in order to fit the selected object in the window size.

Fit all

Adapts the window in order to fit the all objects in the window size.

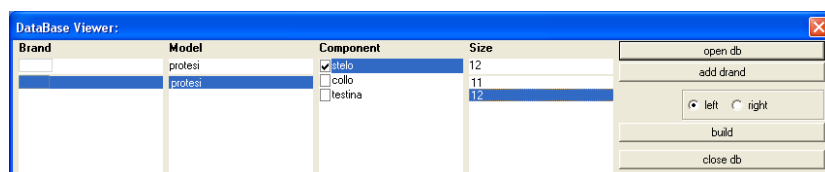
MENU OPERATIONS

Download prostheses

It opens the dialog for the download from the website of new prosthetic components. The downloaded files will automatically be stored in the proper folder and available for use.

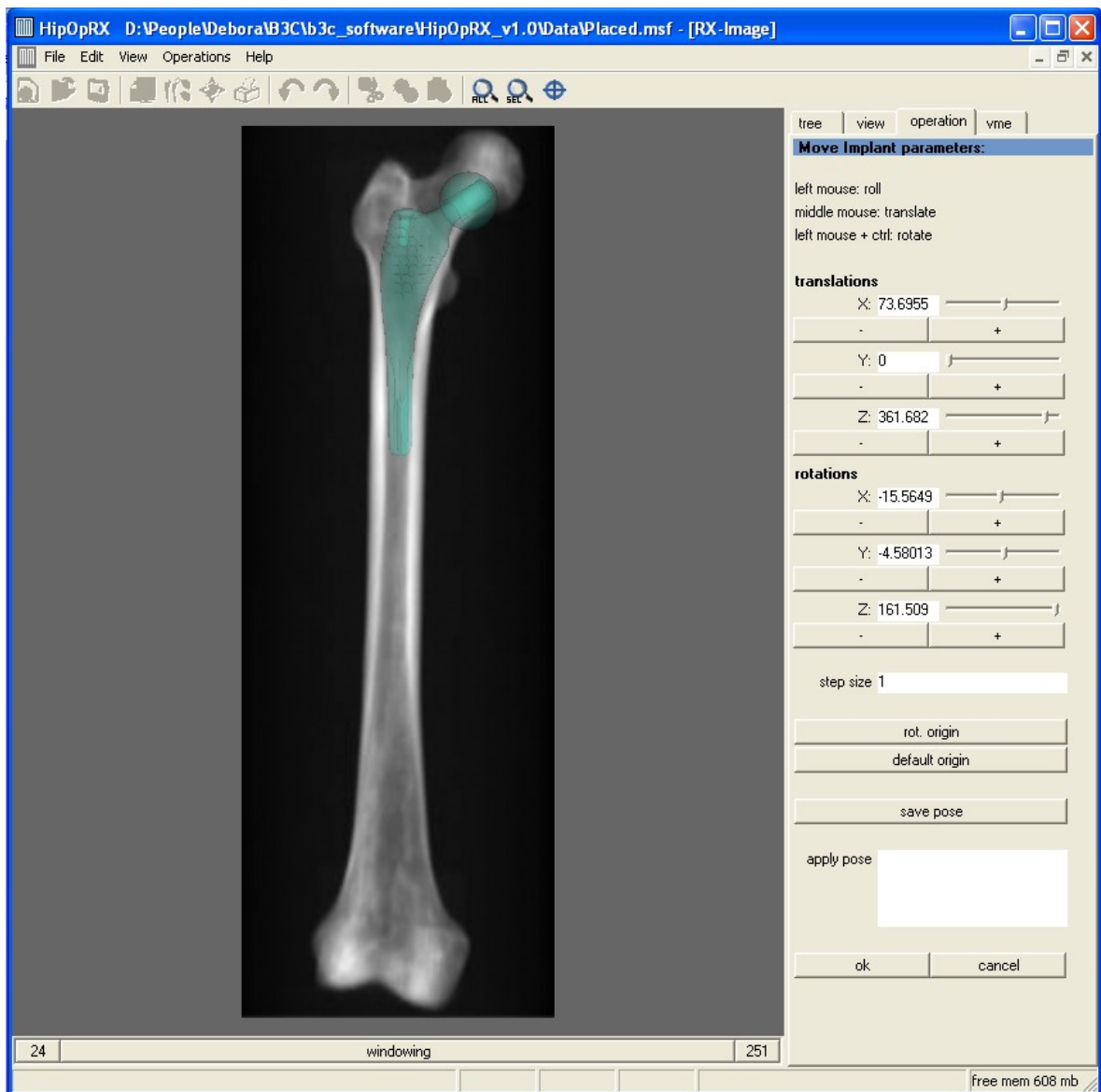
Create/Modify

It allows the user to build/modify the prosthetic model. The user must chose the manufacturer database from those available, then select the prosthesis type and for each component the proper size. The build button creates the chosen model.



Move implant

During the positioning of the prosthetic component, the surgeon can save intermediate positions that can be reloaded. The user can move the component both using the mouse or inserting numerical values in the operation interface. During the positioning the rotation centre can be modified and defined by the user.

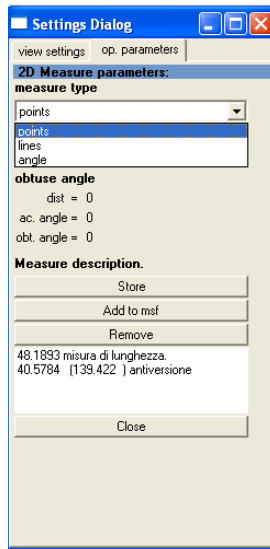


Generate report

At the end of the planning, the surgeon can save a report which contains patient's data got from the DICOM header, type and size of the planned prosthesis, measurements performed and any image of the planning saved by the user (with a specific command inside the interface).

2D measure

It opens the 2D measure dialog. A combo box allows to choose the type of measurements: distance between points, distance between parallel lines, and angles. Each measurement can be carried out drawing the lines with the mouse on the selected image. All measures can be saved together with annotations which describe the type of measure.



MENU HELP

About

HipOpRX current version