

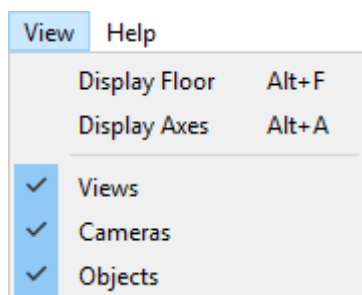
How to Use PlanDSX

The purpose of this tutorial is to guide users through the process of creating a lab configuration for a trial. In order to complete this tutorial you will require a set of CT data. The file format for the CT data can be Dicom, Tiff, Cine or Raw files. It is also helpful to have an object file (.obj) available in order to visualize the object added at the end of the tutorial.

Steps

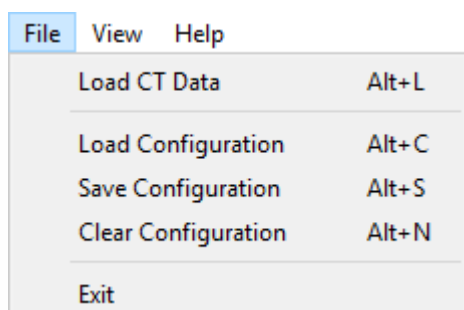
1. Visualize the lab space

Click on the View menu and make sure that all of the View options are selected. There should be a blue box with a check mark in it next to each of the options, if PlanDSX has just been opened Display Floor and Display Axis will not be selected but Views, Cameras and Objects will be selected. Click on Display Floor and Display Axis so that they appear in the 3D-view.



2. Load the CT data

Select *File*→*Load CT Data...* or use the Alt + L shortcut. This will open a file browser window that allows you to select one of the CT data files. All of the CT data files that are in the same folder as the one that you selected will be loaded into PlanDSX, compiled into a 3D image and displayed in the center of 3D lab view.



3. Add X-Ray Views

In the [Views](#) widget, click the Add button twice to add two x-ray views. The views will appear in the widget's list and in the 3D-View. To change the position of the x-ray views select the image plane and

drag it to the desired position. To change the distance that the x-ray source and image plane from the center of the lab (point 0, 0, 0) double click on the distance cell in the views widget and enter the desired distance in millimetres.

Views

1

View1

1500

☒

☐

Blue

2

View2

1500

☒

☐

Green

Add

Remove

4. Add Motion Capture Cameras

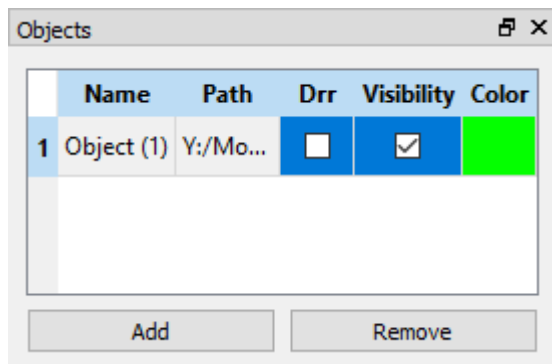
In the [Motion Capture Cameras](#) widget, click the Add button to create a new camera view in the widget's list and in the 3D-View. Add as many cameras as you plan to have in the lab. To change the positions of the cameras double click on the X, Y, and Z cells to enter new coordinates for the camera positions.

	Name	X	Y	Z	Visibility	Color
1	Ca...	1500	1500	1500	☒	Cyan
2	Ca...	1000	1000	1500	☒	Orange
3	Ca...	2000	2000	1500	☒	Purple

Buttons: Add, Remove

5. Add Objects

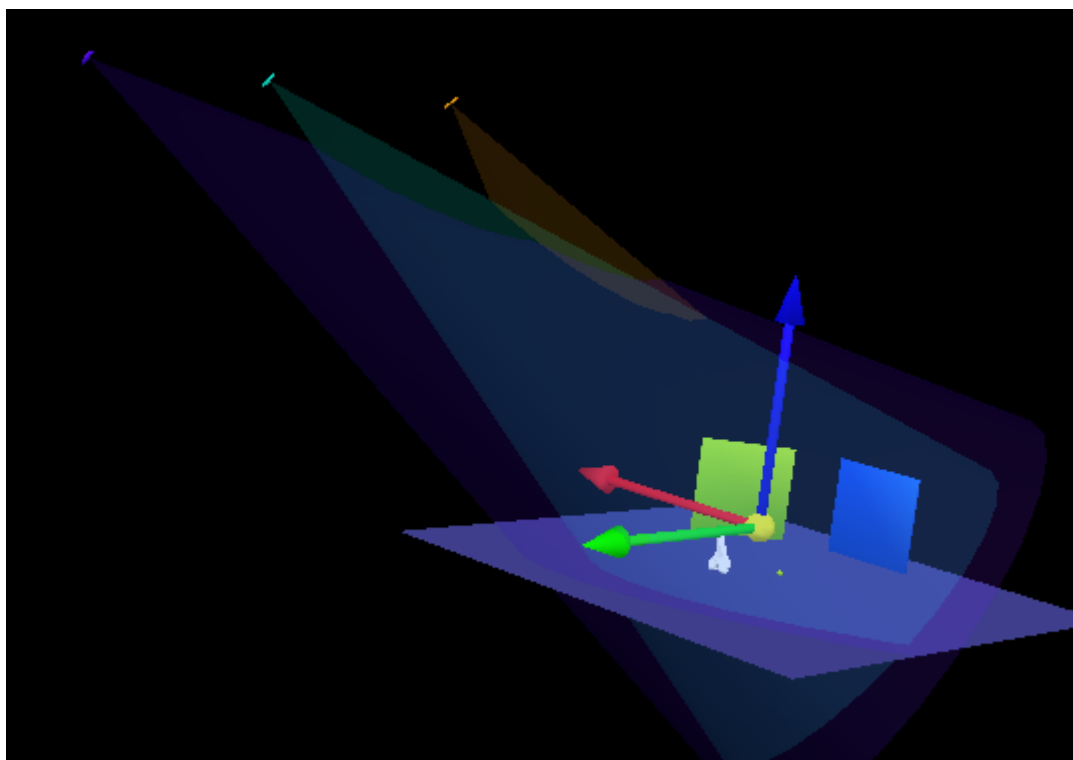
In the **Objects** widget, click the Add button to create a new object in the widget's list and in the 3D-view. Initially the object appears as a single dot which may not be easily visible. Double click on the cell in the Path column and a file browser will open so that you can select an object file to replace the dot which indicates the object. Once the object file is loaded the graphic can be manipulated by clicking on it and dragging it.



6. Save Configuration

The configuration can be saved as an .xml file by expanding the file drop down menu and clicking on the Save Configuration option, or by using the Alt + S shortcut. A file browser window will open allowing you to chose where to save the .xml file. This file can be loaded for use in the future.

The 3D-view should look similar to the view below:



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