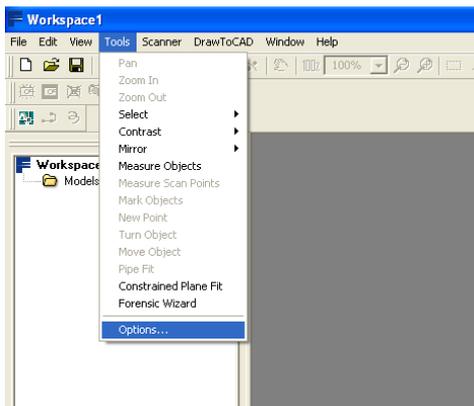


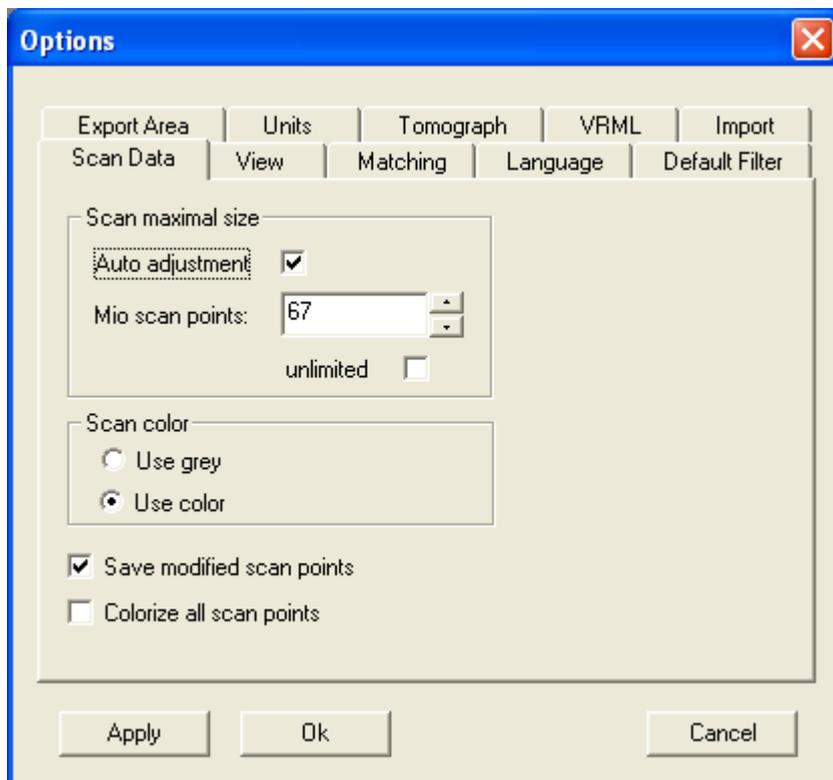
Load more scans at the same time **- by loading them in reduced resolution**

FARO Scene allows you to load scan files with many million points and always tries to make best use of the available memory space. The total amount of points which can be held in memory at the same time depends on the amount of RAM available on your computer. In general, this is limited by Windows XP which cannot maintain more than 3GB RAM. Due to this fact, in some cases you may want to load more scan files than possible with the default settings.

After opening, FARO Scene evaluates how many RAM is are available on your computer. Based on this information the software calculates how many points per scan file may be loaded to hold at least two scan files in memory. This information can be seen in the “Scan Data” tab of the “Options” dialog box (Menu: Tools – Options; see below).



Selecting “Tools - Options...” from the main menu opens the “Options” dialog box



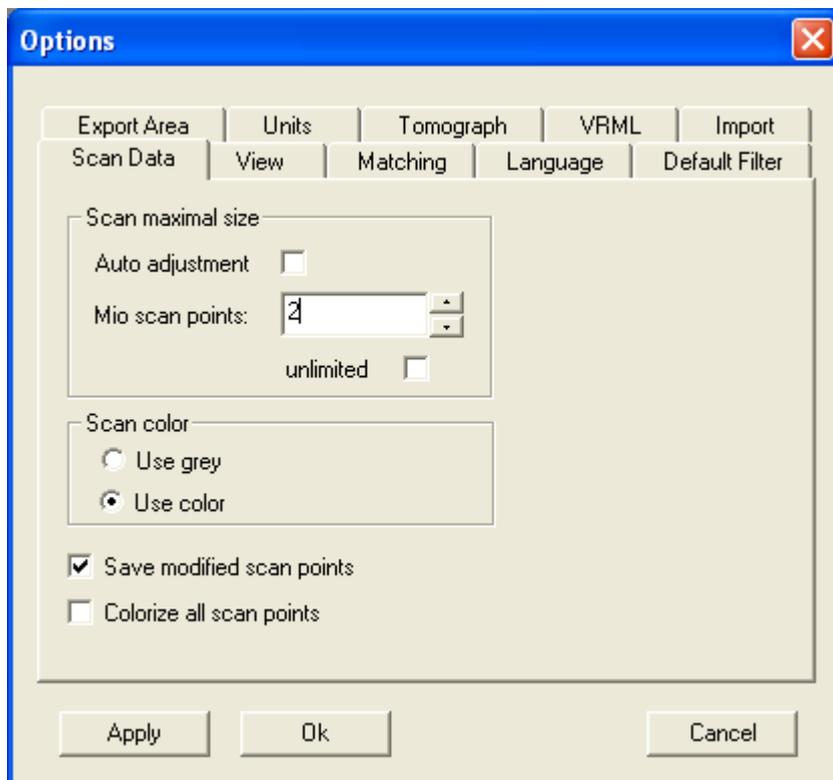
The "Scan Data" tab of the "Options" dialog shows the default setting for the maximum amount of scan points being loaded

By default, FARO Scene is set to "Auto adjustment", which means that FARO Scene will use the calculated amount of scan points to load the next scan file. The maximum amount of loaded scan points is shown in the field "Mio scan points".

The meaning of the given number of scan points is as follows:

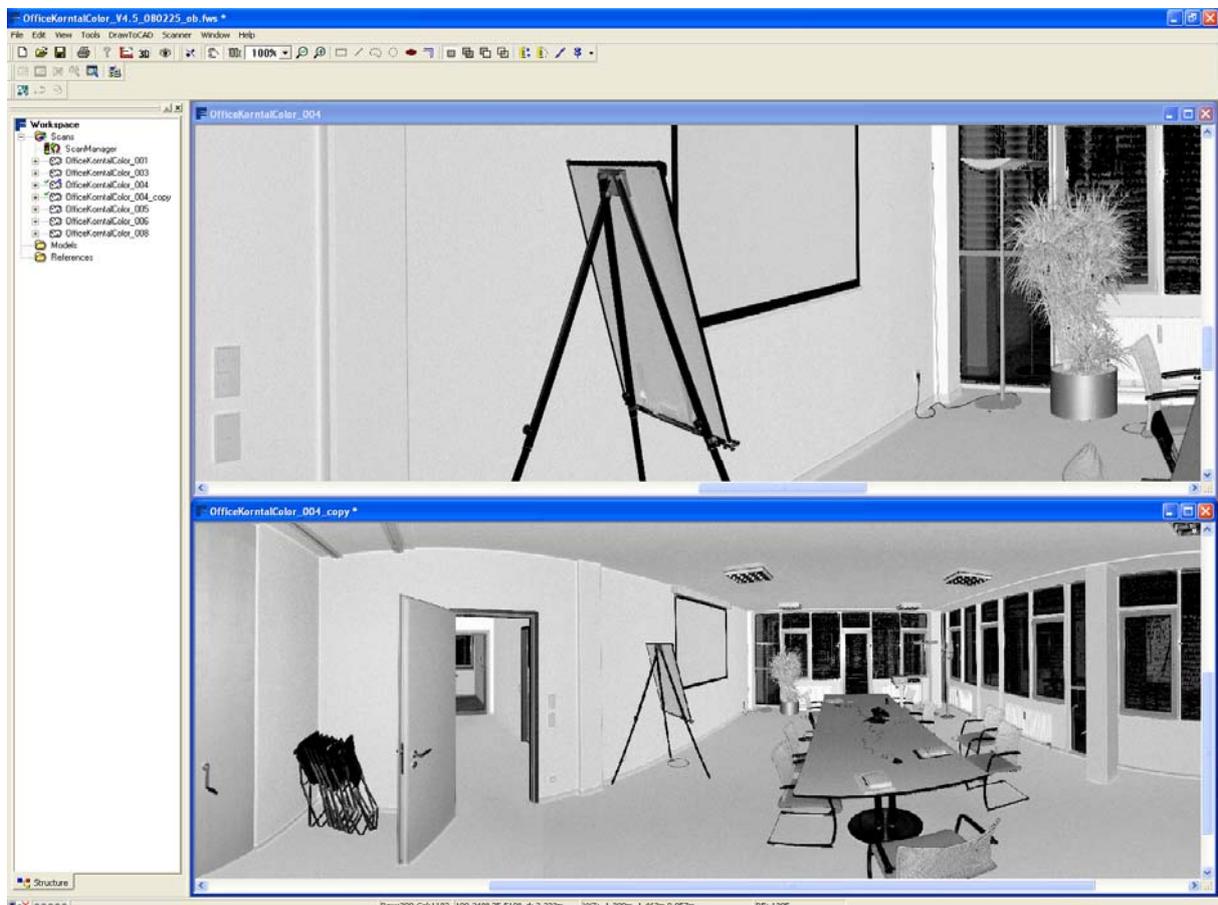
- 1) The next scan file to be loaded consists of less or the same amount of scan points shown in the field:
The full scan file will be loaded.
- 2) The next scan file to be loaded consists of more than the mentioned amount of scan points shown in the field:
FARO Scene will load only the given number of scan points (resp. the next lower number suitable to the scan file's resolution) and thus reduce their density in a way that the full captured range of the scan is loaded.

By setting the number of scan points manually, you are able to influence how many scan files FARO Scene can load into the memory at the same time. The next figure shows an example setting to have FARO Scene load not more than 2 million scan points per scan.



This example shows how to make sure FARO Scene does not use more than 2 million scan points per scan

In the next pictures you may see the difference between a scan file consisting of about 26 million scan points being loaded in full resolution and the same scan being loaded with only 2 million of its points. As in both windows, the zoom factor is set to 100%, FARO Scene shows a bigger field of view for the scan which has been loaded with reduced resolution (lower window).



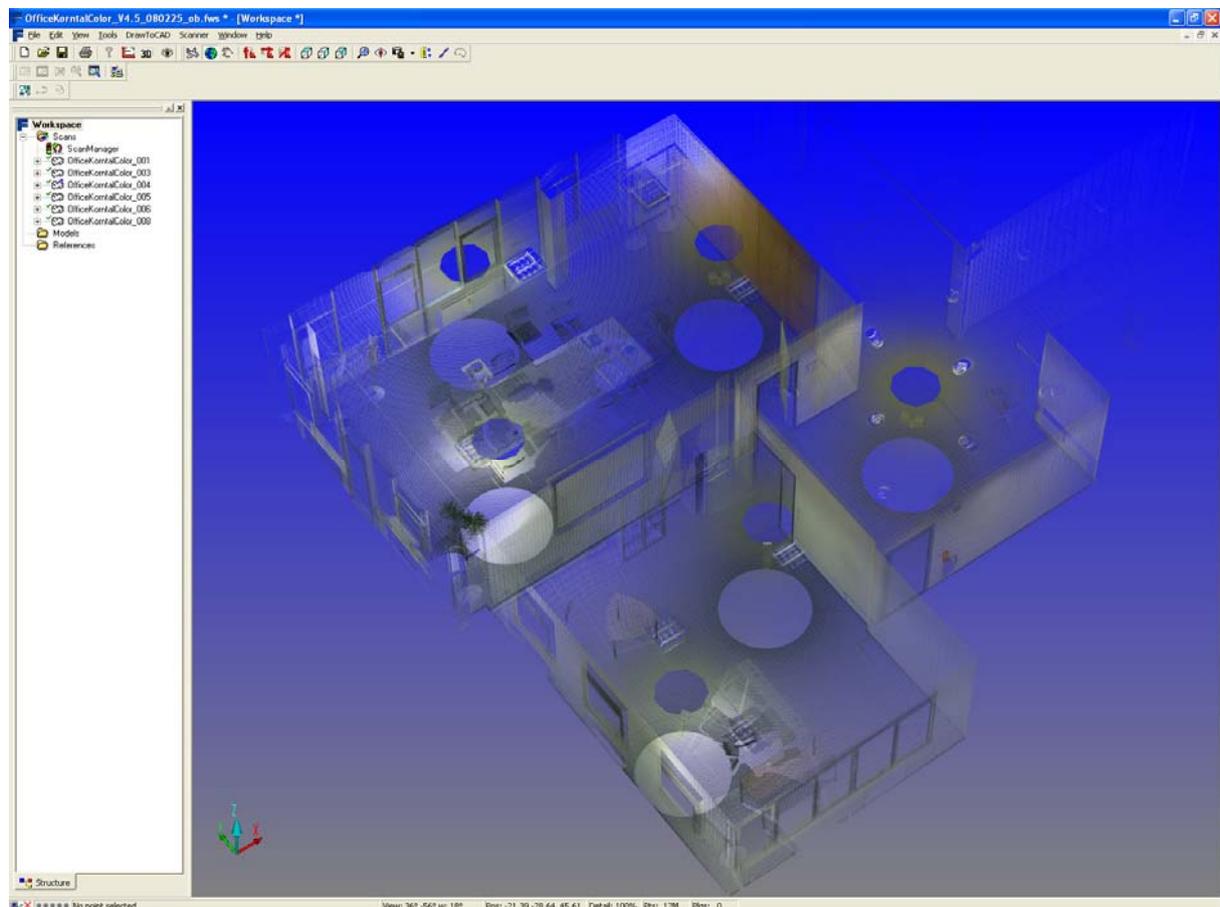
Upper window: Scan loaded with its full resolution of about 26 million points (Zoom factor 100%)

Lower window: The same scan, but loaded only with 2 million points (Zoom factor 100%)

With this setting (2 million scan points), it is easily possible to load the whole workspace consisting of 6 coloured scans, captured at $\frac{1}{4}$ resolution. In fact, it should be possible to load more than 30 scan files at this resolution on the same computer.

Laser Scanner

May 2008



3D view of the hole workspace (6 scan files) being loaded with 2 million points (of about 26 million available for each scan)

Behind the scenes:

Be aware that FARO Scene has only access to scan points which are physically loaded into the RAM of your computer. This means, if you load scan files with a reduced resolution, all operations (filtering, deleting, colourization etc.) in FARO Scene will only affect the loaded points.

If you save the modified scan data, FARO Scene can only save the points which are held in memory. This means it will overwrite the existing scan file – the new file will only consist of the amount of scan points you had loaded.

This feature is available for FARO Scene version V4.1.10.2 or later.

In case you are using FARO Scene version V4.x.x.x you can upgrade without any extra costs. If you wish to get a free upgrade, please contact our customer service department.

If you are using an older version of FARO Scene, you also have the possibility to upgrade. Please contact our customer service department for more information.

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