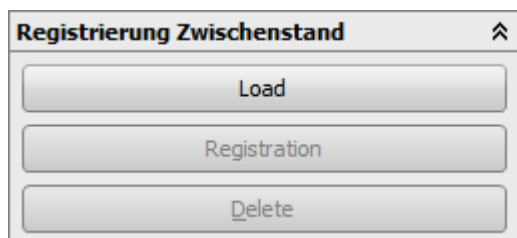




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#3429 Aligner_3D: Option "Scan-Refinement"

Since release 3.2.7 (77) in module Aligner_3D, an additional panel is available bottom down in the module window middle panel which has 3 separate buttons. The functionality linked to this panel can be used to adjust a calculated aligner step by the actual treatment situation using an intermediate scan to refine the current step and therefore, the subsequent planning.

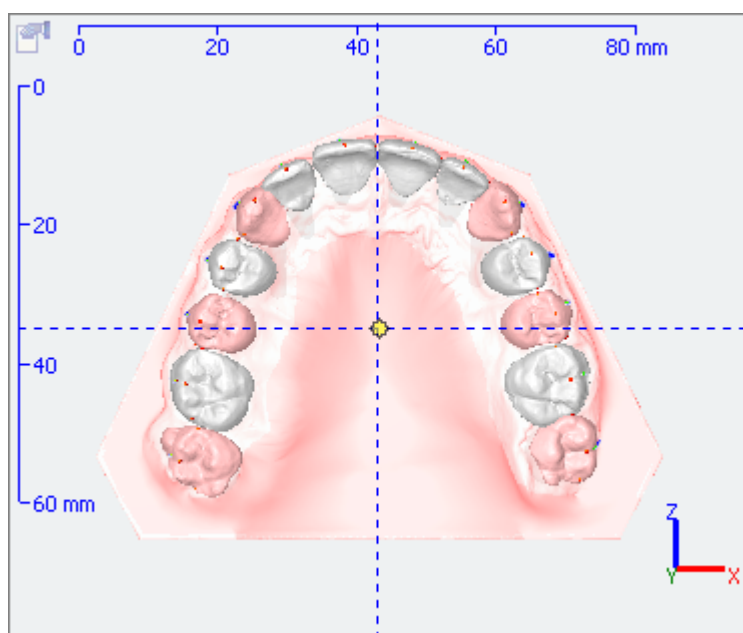


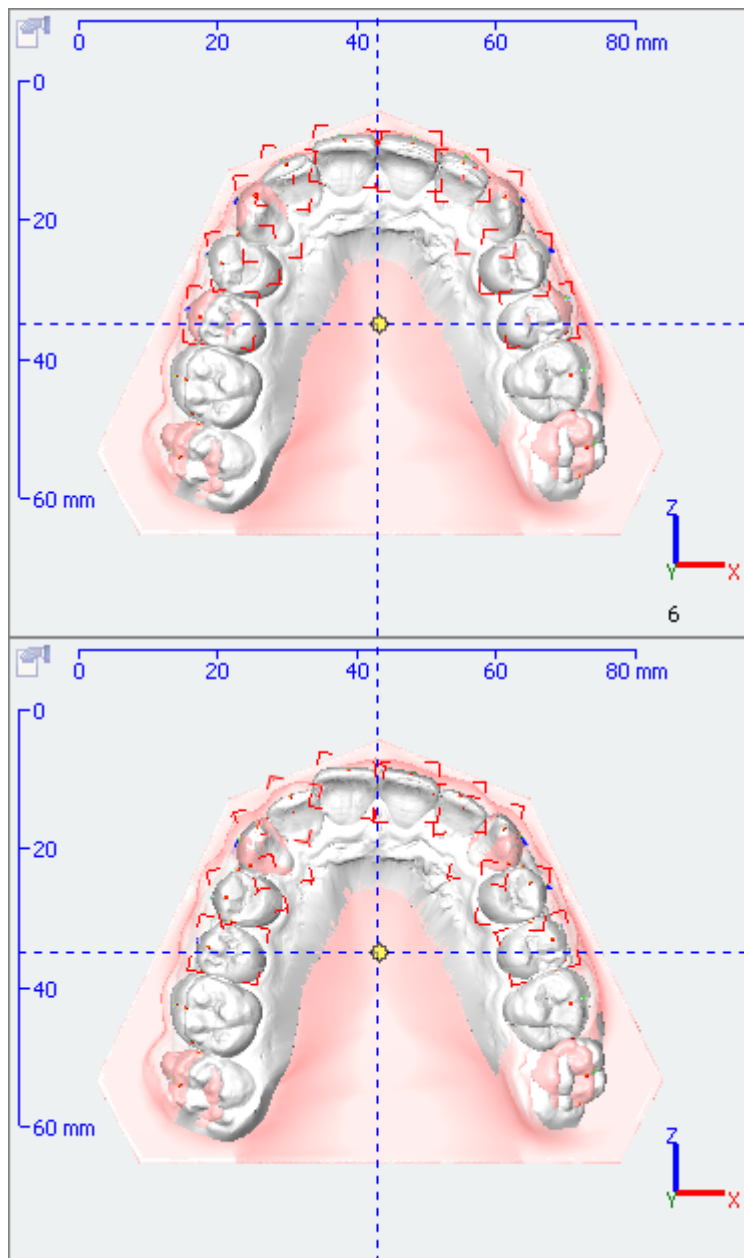
The intermediate scan has to be imported as a model finding as usual. It should be aligned as identical as possible like the malocclusion scan which originally was used for the aligner planning project.

By button [Load] the intermediate scan is imported to the Aligner_3D module, overlayed and aligned by common surface features which have not been influenced by the treatment so far.

By button [Registration] all single teeth of the planning finding selected in the module object list will be aligned by the corresponding tooth surfaces in the intermediate scan.

By button [Delete] after the refinement is completed the refinement scan can be removed again from the planning project. Starting from such corrected situation, now the subsequent aligner steps can be calculated more precisely than w/o such refinement.





The advantage of such method compared to other ones (if any) is that the intermediate scans used for step refinement can be used as bulk model without segmentation or other pre-processing. Thus, Der Vorteil dieser Methode ("Scan-Refinement") besteht darin, dass die Zwischenscans als Kompaktmodelle ohne Segmentierung und andere Nachbearbeitungsschritte verwendet werden können, um das ursprüngliche Planungsprojekt zu optimieren. Somit steht dem Vorteil besserer Behandlungsergebnisse infolge adaptiver inkrementeller Planung lediglich der zusätzliche Aufwand zusätzlicher Scans entgegen. Die Verwendung von Intraoralscannern kann helfen, das Aufwand-Nutzen-Verhältnis einer solchen Arbeitsweise weiter zu verbessern.

Note

It is important for the proper functionality of the procedure that both, the malocclusion scan that was used for the initial aligner planning project but also the intermediate refinement scans cover sufficient skeletal surface features (gingiva, palatal) which are not influenced by the previous treatment.

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Last update: 2015/10/17 19:30



