



Surgical simulation

Treatment Simulation

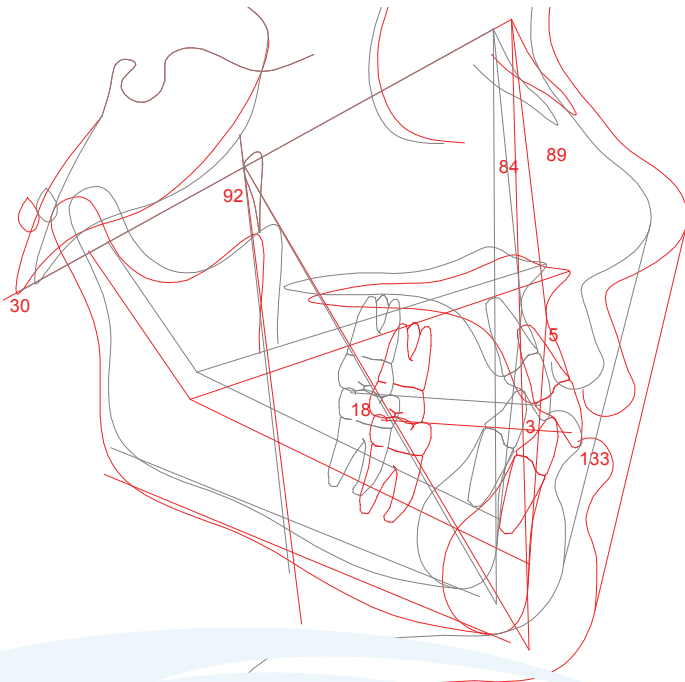
- Enhanced features!
- Roth/Ricketts AEO VTO Wizard
- Adopted by the Advanced Education in Orthodontics (AEO) Group and Full FACE Course



The Treatment Simulation software module allows you to plan, diagnose, and present cases from the lateral view. Multidisciplinary VTO Wizards include step-by-step interactive programs for quick and easy analyses and treatment planning. It's the perfect tool for interdisciplinary clinicians to visualize outcome and work in concert. Dolphin Treatment Simulation can be used for both orthodontic and surgery cases.

Dolphin Imaging software is designed for use by specialized dental practices for capturing, storing and presenting patient images and assisting in treatment planning and case diagnosis. Results produced by the software's diagnostic and treatment planning tools are dependent on the interpretation of trained and licensed practitioners.

Dolphin Imaging software is an FDA-cleared Class II medical device.



AEO Roth VTO on a growing orthodontic patient

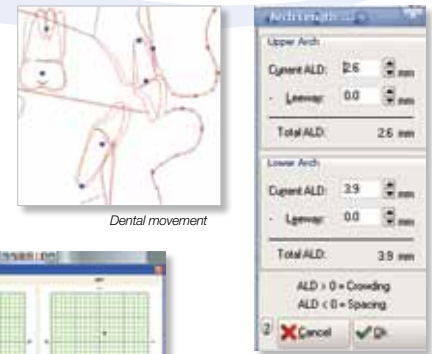


Microsoft Partner
Gold Application Development



Orthodontic Treatment

- Translate, tip and rotate incisors; reposition molars; auto-rotate the mandible
- Arch Length Discrepancy worksheet: initial condition, leeway, extraction, expansion and stripping
- CO-CR Conversion. Enter CPI or MPI reading; simulates fulcrum of lower jaw at the first dental contact; automatically repositions centric occlusions to centric relations

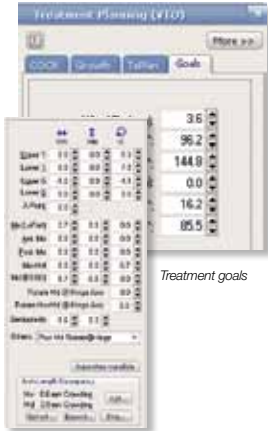


Dental movement

Arch length discrepancy worksheet

Growth Forecast

- Simulate growth on a traced x-ray, or tracing overlaid on a photo by inputting current skeletal age and desired duration of growth
- Superimpose one or more growth tracings over original tracing, aligned to any desired reference plane
- Easily view post-growth measurements and the grown image
- Choose from Bolton or Ricketts growth algorithm



Treatment goals

VTO Wizards and Analyses

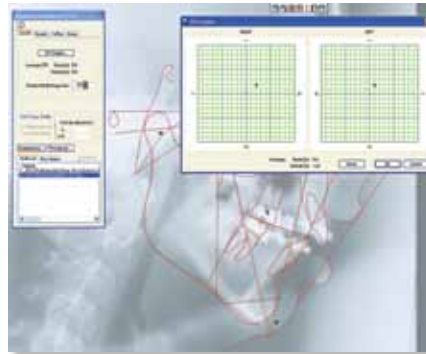
Allow the clinician to quickly predict, plan, and visualize the sequence of treatment to be performed:

- AEO-Roth/Ricketts
- McLaughlin (optional module)

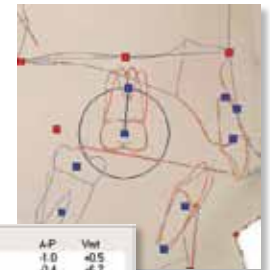
Treatment Goals

Treatment Simulation based on specific cephalometric goals:

- Upper Incisor to A-Pogonion
- Upper Incisor to Sella-Nasion Angle
- Interincisal Angle
- Lower Incisor to A-Pogonion
- Lower Incisor to A-Pogonion Angle
- Lower Incisor to Mandibular Plane



Analyze the discrepancy between centric occlusion and centric relation; set the hinge axis rotation point; view the CPI graphs and simulate the correction.

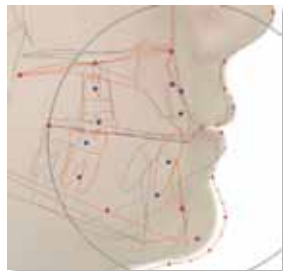


Reposition molars



Profile touch-up tools

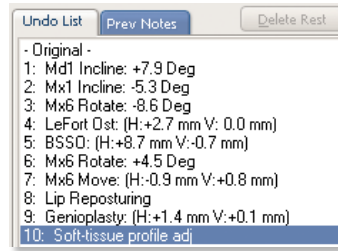
Mandible	A-P	Vet
ANS	-1.0	+0.5
PNS	-0.4	+6.7
Mx1 lip	-1.4	+0.3
Mx1e MB sweep lip	-0.6	+1.2
Mandible	A-P	Vet
Mx1 lip	-6.1	+1.4
Mx1e MB sweep lip	-8.5	-3.7
8 pins	+10.1	8.0
Pog	+10.1	+0.1
Genioplasty	-1.6	-8.2
Model Block Surgery		



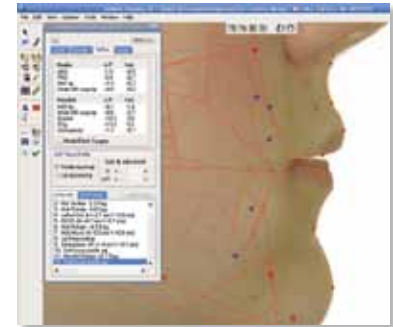
Double jaw surgery simulation



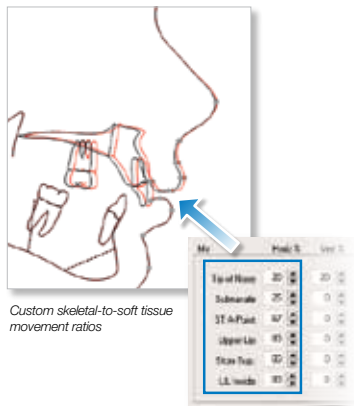
Surgical operations



History of treatment steps



Precise profile touch-up



Custom skeletal-to-soft tissue movement ratios

Orthognathic Surgery

- Le Fort, BSSO, double jaw, genioplasty
- Rinoplasty (with image touch-up, morphing tools)
- Cheekbone implant (with image touch-up, morphing tools)
- Model block surgery report
- Precise profile soft tissue touch-up and contouring tools

Other

- Appropriately alter soft tissue profile based on dental and skeletal movement
- Develop treatment plan with any standard or custom cephalometric analysis
- Easily use and navigate visual handles or enter precise treatment values
- Customize skeletal-to-soft tissue movement ratios
- Undo history-of-treatment steps
- Easily compare with other treatment plans
- Export images to Windows Clipboard and other image files
- Movie Morphing feature lets you demonstrate the transformation from pre-treatment to simulated results

