



Ceph Tracings- Custom and Advanced Features

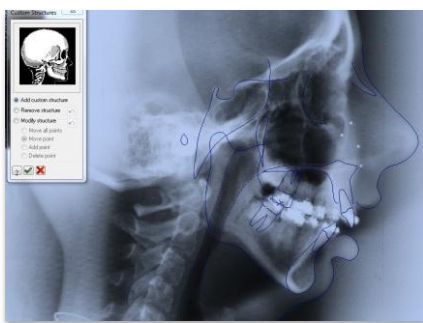
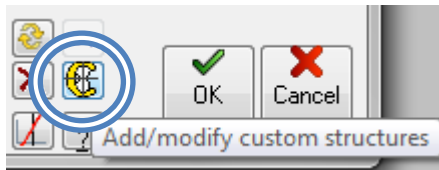
Show photo of occlusion during digitizing

This feature is extremely helpful, review the digital photo of the patient's bite while digitizing the ceph. Simply click on the Original records window and then right click to display the intraoral right image.

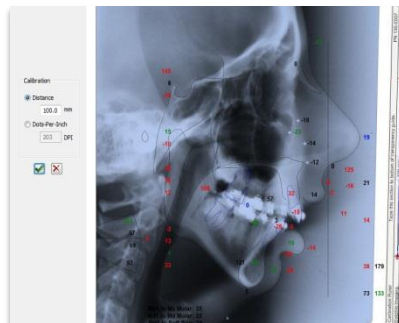


Add/modify custom structures

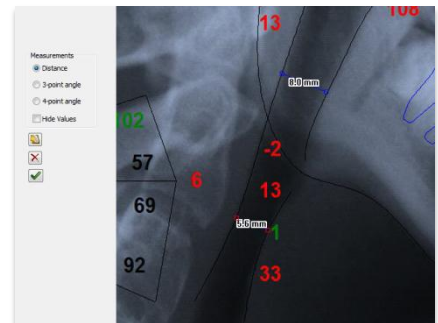
From the Digitizing module open the Custom Structures feature to manually draw structures or modify the automatically drawn structures.



Add structure



Calibrate

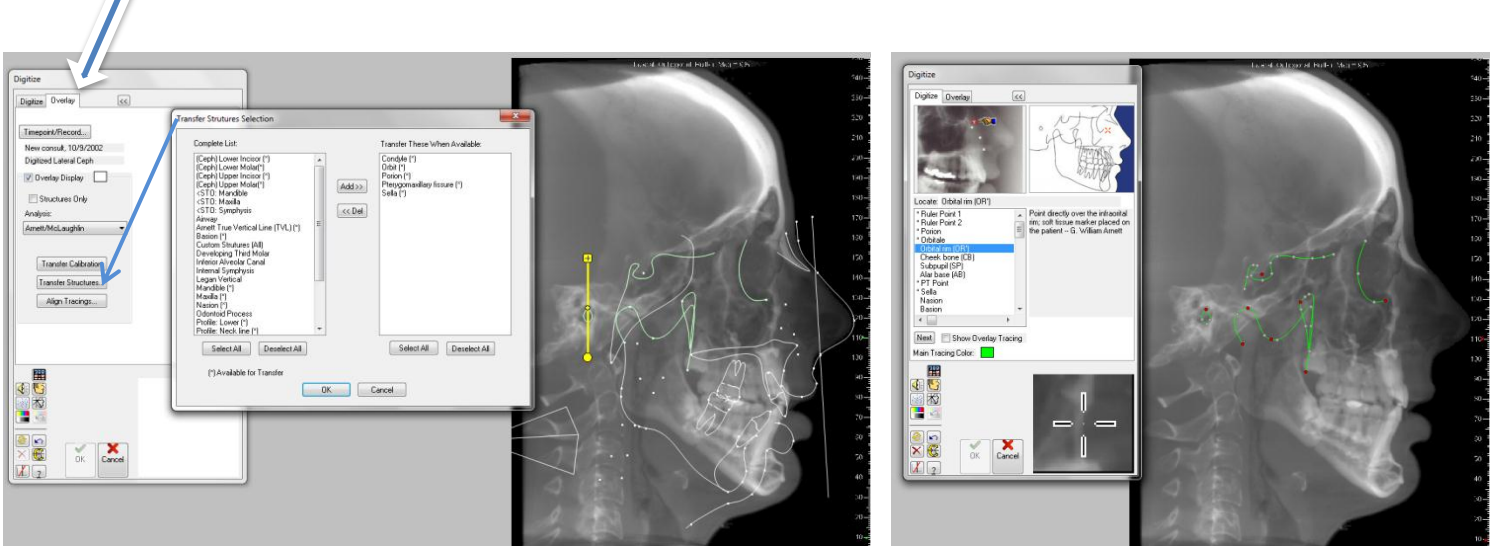


Measure

Overlay and transfer structures

During treatment a patient's radiograph will indicate if landmarks or structures have changed. For accuracy and simplicity digitize a progress or final x-ray using overlay tracings from the initial radiograph. Transfer all the structures that did not change.

The **Overlay** module enables you to quickly and accurately trace cephalometric radiographs.



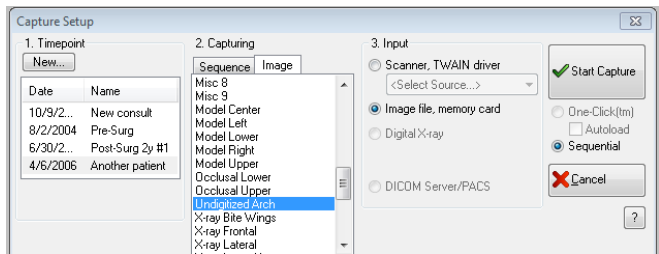
Overlay a tracing from another timepoint.

Only digitize the landmarks that changed.

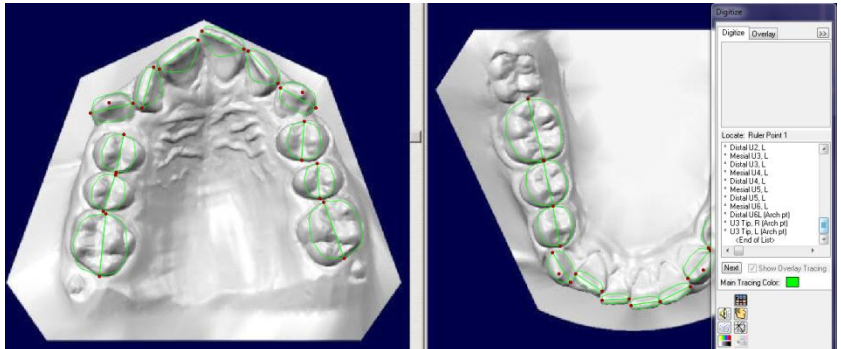


Superimposing tracings could not be better.

Capture and Digitize Models



Capture the upper and lower models in the Undigitized Arch image slot.



Then digitized the models.

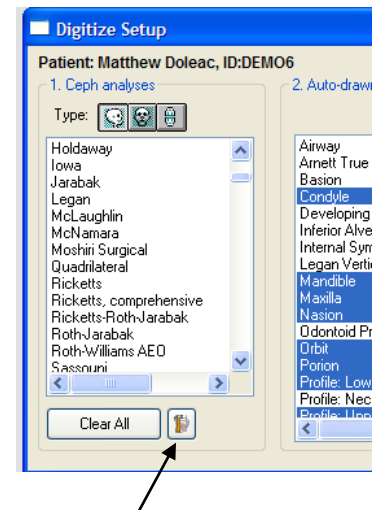
Custom Tracings

Custom tracings allow doctors to create personalized analyses either from scratch or by modifying an already existing analysis. Using the custom analysis editor, you can arrange and group these items, define custom names, define properties such as whether they should appear on the measurements tables and tracings, and what colors to use for them.

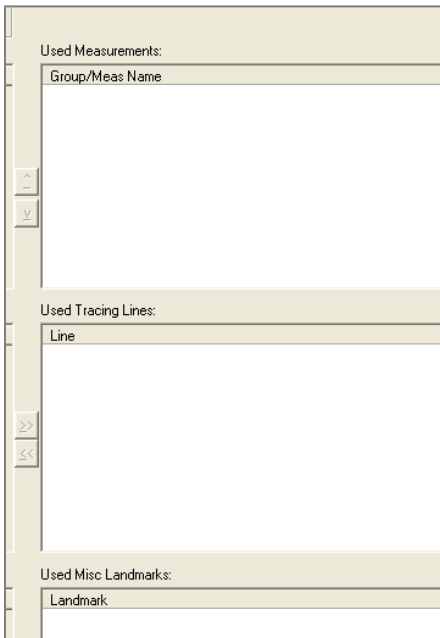
The custom analyses you define are stored in two files: CstAnalysis.bin and CstLateralMs.bin. The CstLateralMs.bin file is only present if you have created custom group categories or custom norms. You can copy these two files to another computer to share your custom analyses. Bear in mind, however, that copying these two files to another computer overwrites any custom analyses that were already defined on the target computer.

Also, upgrading Dolphin Imaging does not overwrite these two files. Therefore, your custom analyses are retained when you upgrade the software.

Group/Measurement	Value	Norm	Std Dev	Dev	Norm
Intercisal Angle (U1-L1) (°)	115.9	123.0	6.0	-1.2	*
IMPA (L1-MP) (°)	107.2	95.0	7.0	1.7	*
ANB (°)	8.9	1.6	1.5	4.8	****
Lower Lip to E-Plane (mm)	4.0	5.0	2.0	-0.5	
Upper Lip to E-Plane (mm)	2.4	3.0	2.0	-0.3	
MP - SN (°)	33.3	33.0	6.0	0.1	
SNA (°)	87.1	82.0	3.5	1.5	*



Custom Analysis Editor can be accessed either from the Cephalometric Measurements or the Digitize Setup window.



Analysis Dialog Box

Groups and Measurements- *These items are typically listed on measurement tables. Measurements can be the distances between particular landmarks, angles, ratios, and so on. The groups categorize related measurements.*

Tracing Lines- *These lines identify the structures that Dolphin Imaging can automatically draw when you digitize a patient's radiograph using a particular analysis.*

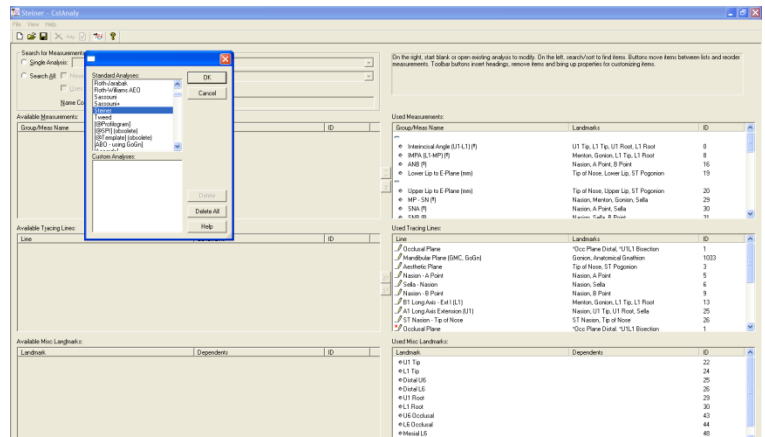
Use Landmarks- *These landmarks are included in the analysis but are not used to create measurements and tracing lines.*

Modify an existing analysis

The easiest and most common usage is to start with an existing analysis and modify it to include additional measurements and landmarks as desired.

File | Open

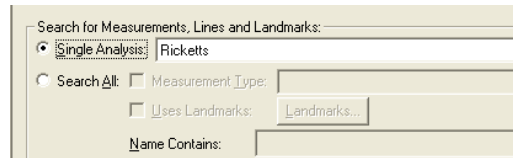
Re-order the measurements as desired and add group headers (Hgd) if needed.



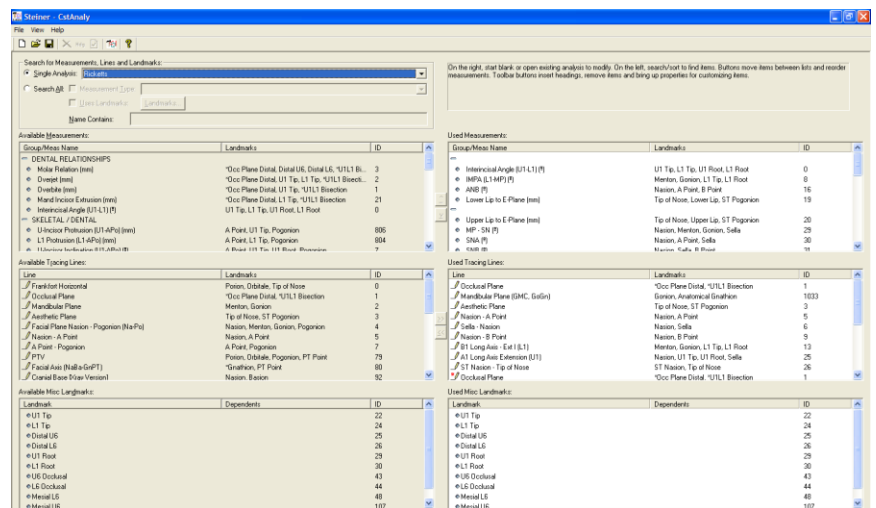
Combine your favorite analyses

When you open an existing single analysis, the Used Measurements, Used Tracing Lines, and Used Misc. Landmarks list boxes list the analysis items that the analysis currently contains.

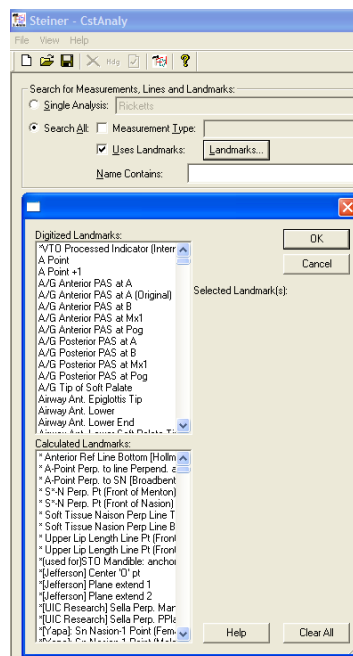
Search another single analysis.



At this point, you can add to or remove items from the analysis.



Finding an analysis Item



Single Analysis- Select this radio button and select from the associated drop-down list box to list the available analysis items used in the specified analysis.

Search All- Select this radio button to find an analysis item based on one or more of the following search criteria.

- Measurement Type- Check this box and select from the associated drop-down list box to find measurements of a particular type. You can view measurements that are distances, angles, percentages (ratios), or measurements of any other type.
- Uses Landmarks- Check this box and click Landmarks to find an analysis item that uses one or more landmarks.
- Name Contains- Enter a partial name in this text box to find an analysis item based on its name.

Custom Analysis Editor

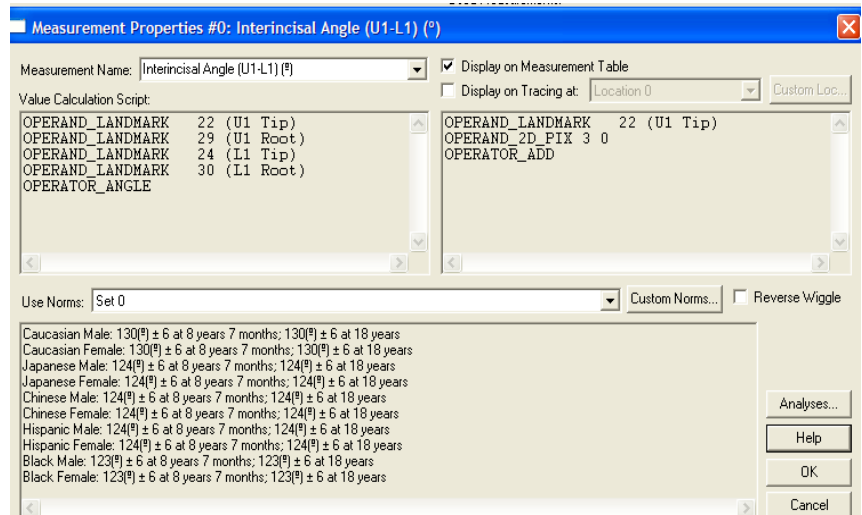
Setting Properties for a Measurement

To set properties for a measurement:

Double-click a measurement in the Used Measurements list box.

Or, right-click a measurement in either the Available Measurements or the Used Measurements list box. Then, select Properties from the pop-up menu.

Or, select a measurement in either the Available Measurements or the Used Measurements list box. The Measurement Properties dialog box is displayed.



If you are viewing properties for a measurement from the Used Measurements list box, set any properties for this measurement, and click OK. For measurements from the Available Measurements list box, you can only view the properties.

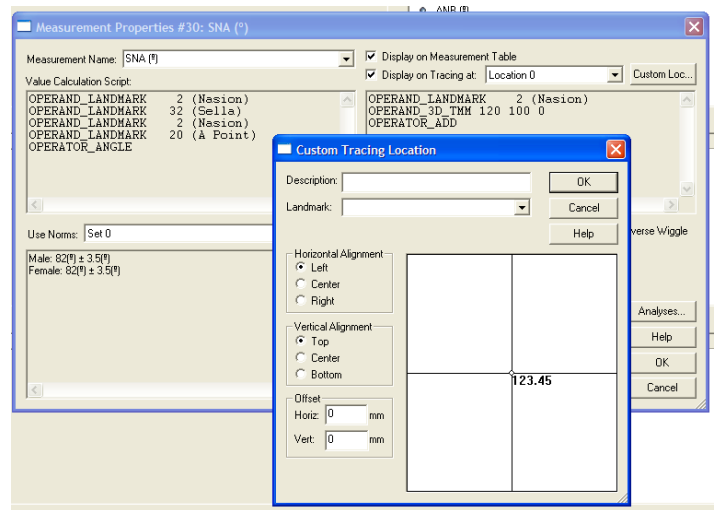
Dialog Box Options

<i>Measurement Name</i>	<i>Lists the names currently defined for this measurement. To customize this measurement's name, you can select from this drop-down list or type in a new name.</i>
<i>Display on Measurement Table</i>	<i>Check this box to display this measurement on the measurement table for this analysis.</i>
<i>Display on Tracing At</i>	<i>Check this box to display this measurement on the tracing for this analysis.</i> <i>Drop-down list box: Select from a list of the tracing locations currently-defined for this measurement.</i> <i>Custom Loc... Click this button to define a custom location.</i>
<i>Value Calculation Script</i>	<i>Describes the calculation used to arrive at this measurement.</i> <i>Note: Although you cannot change this script, you can select it, copy it to the clipboard, and paste it elsewhere (such as in an email message).</i>
<i>Location Calculation Script</i>	<i>Describes the calculation used to arrive at a landmark location.</i> <i>Note: Although you cannot change this script, you can select it, copy it to the clipboard, and paste it elsewhere (such as in an email message).</i>
<i>Use Norms</i>	<i>Use these controls to specify the gender or racial norms to use for this analysis.</i> <i>Drop-down list box: Select from a list of the norm sets currently defined for this measurement.</i> <i>Custom Norms... Click this button to define a set of custom norms.</i>
<i>List of Norms</i>	<i>Lists the norms for the currently selected norm set. You can select the text in this box, copy it to the clipboard, and paste it elsewhere (such as in an email message).</i>
<i>Analyses...</i>	<i>Click this button to view a list of the analyses that use this measurement.</i>

Custom measurement location

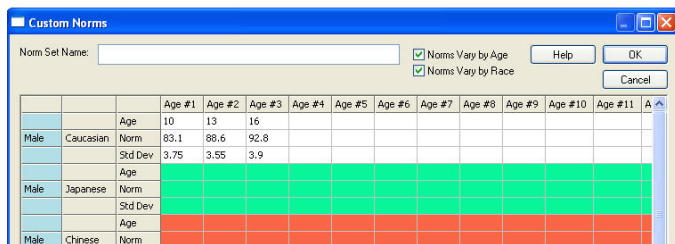
Specify where you want this measurement to appear in relation to the landmark using the Horizontal Alignment, Vertical Alignment, and Offset group boxes

Enter a description of this location in this text box. This description is used to identify the location in the Display on Tracing at drop-down list box on the Measurement Properties dialog box.



Define a set of custom norms

Select a norm set that you want to edit or use as the basis of a new norm set from the Use Norms drop-down list box on the Measurement Properties dialog box.

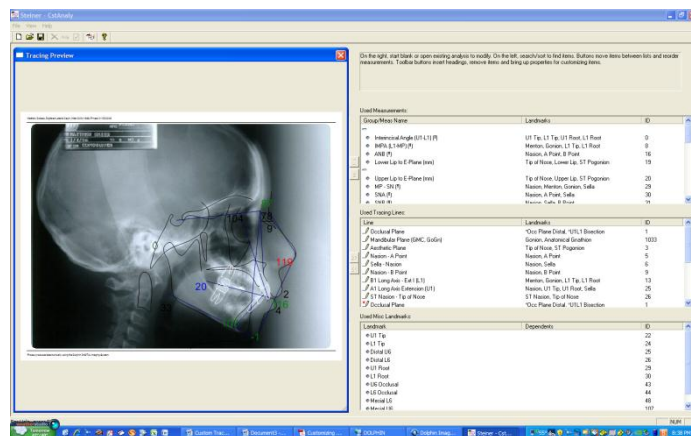


Enter a descriptive name for this norm set.

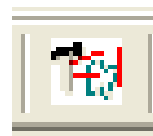
Enter a set of norms that vary depending on the patient's age.

Enter the norm values in the cells in the table. The number of table cells depends on whether the Norms Vary by Age and Norms Vary by Race boxes are checked.

To preview tracing of analysis



It shows the tracing created using your custom analysis.



Symbols



Displays on measurement table



Displays on tracing



Displays during tracing



Displays on tracing as a number

When you add an item to your custom analysis, the selected item moves to the Used Measurements, Used Tracing Lines, or Used Misc. Landmarks list box, as appropriate.

If the item is a measurement, a symbol in the left column indicates whether the item will appear on measurement tables or tracings. If the measurement's properties specify that it should appear on both, the item appears twice.