Dolphin Imaging Getting Started

Congratulations on your decision to purchase Dolphin Imaging. You are about to use the best and most advanced imaging and diagnostic system in the world.

Dolphin Imaging software is designed specifically for clinicians and trained assisting staff. Results produced by Dolphin's diagnostic and treatment planning tools are dependent on the interpretation of trained and licensed practitioners.

Press F1 to get help on any Dolphin Imaging window.

To start using Dolphin Imaging, click  . The Patient Lookup window opens so you can select an existing patient or add a new patient.

Imaging Plus

Dolphin Imaging is divided into several separately-purchased modules, which enables you to tailor your installation to your practice's needs. This section describes the basics of the Imaging Plus module.

Selecting a Patient

When you start Dolphin Imaging, the Patient Lookup window opens so you can select a patient or add a new patient. To return to this window later, click 

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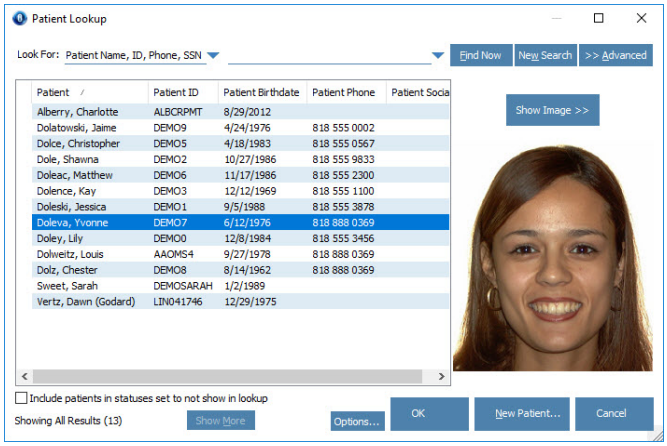
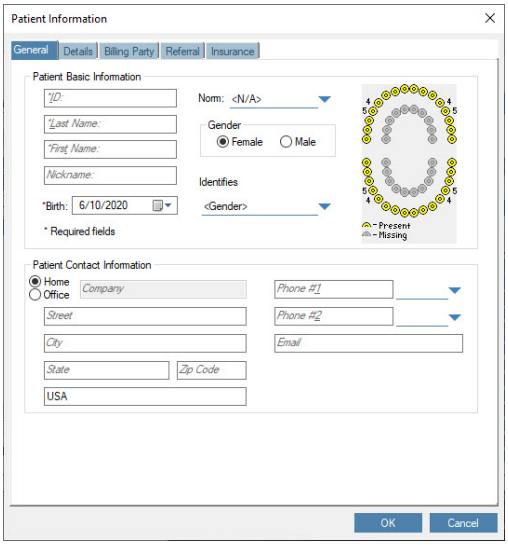
To select a patient that already exists in your Dolphin database, enter information such as their name or patient ID, and click **Find Now**. The main screen appears and displays images of the selected patient.



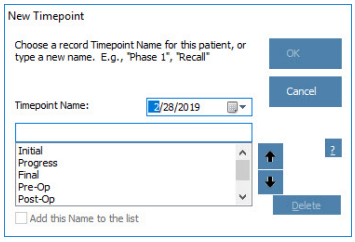
Adding a New Patient

To add a new patient to your Dolphin database, click **New Patient...** on the Patient Lookup window. Then, select **New Patient** to open the Patient Information dialog box. Complete at least the required fields on each tab, which are indicated by asterisks (*).



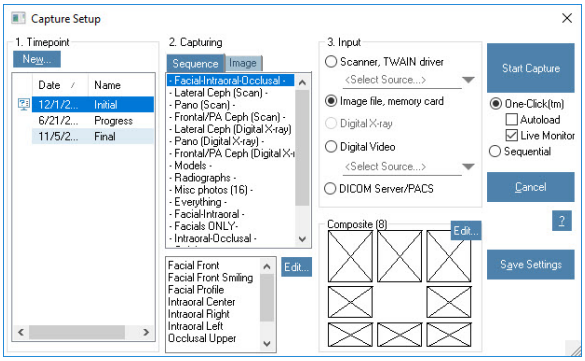
When you click **OK**, the New Timepoint dialog box opens. Like different sections of a patient's file, timepoints group related images, such as photos and x-rays from a particular office visit.

To create a new timepoint, choose a name from the list. The current date is entered automatically.



Capturing Images

After you add a new patient and timepoint, the Capture Setup dialog box opens. To return to this window later, click Capture/Scan .

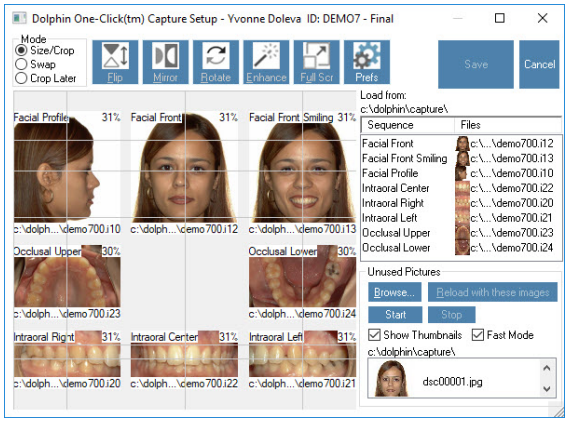


To capture photos or x-rays for this patient, select:

- a timepoint
- an image sequence (such as **- Facial-Intraoral-Occlusal -** for a series of facial and intraoral photos or - **Lateral Ceph (Scan) -** for a lateral x-ray)
- an input device (such as **Image File, Memory Card** for digital photos on a memory card or **Scanner, TWAIN driver** for a flatbed scanner)

Click **Start Capture**.

The dialog box that opens depends on the image sequence and input device you chose. For example, the image to the right shows the dialog box that opens when you select the **- Facial-Intraoral-Occlusal -** sequence and **Image File, Memory Card** as the input device.



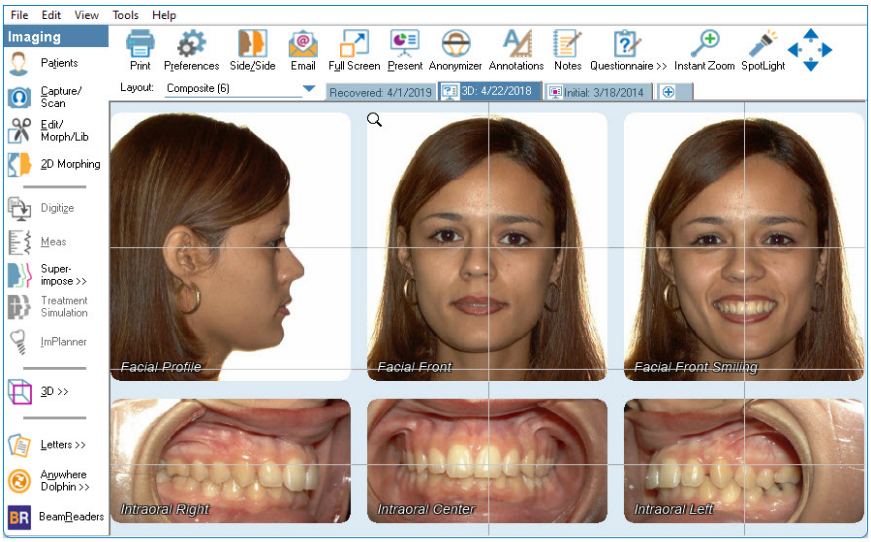
Click **Save t**o save the images for this patient and timepoint in your Dolphin database and go to the Dolphin Imaging main screen.

The Main Screen

The main screen is the “navigation hub” for Dolphin Imaging. From here, you can:

- access all areas of the program using the menus and tool bars
- view images for this patient in the image layout

Tabs for the patient’s timepoints appear above the image layout.



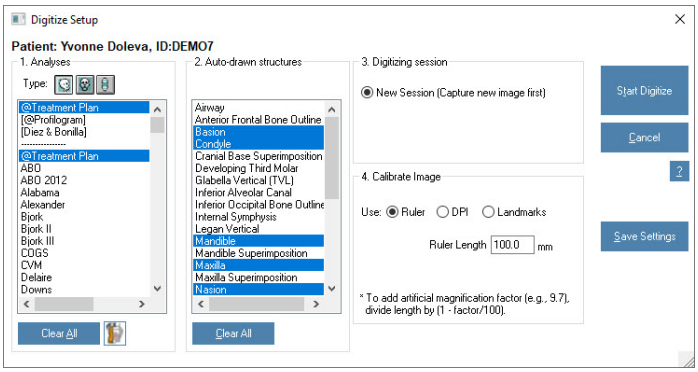
Cephalometric Tracing and Analysis

if you have purchased the Cephalometric Tracing and Analysis module, you can digitize x-rays to identify landmarks on them, view cephalometric measurements based on those landmarks, and superimpose the resulting tracings, either over other tracings for comparison purposes or over the patient’s photo.

Digitizing X-rays

Click  to open the Digitize Setup dialog box. Then, select:

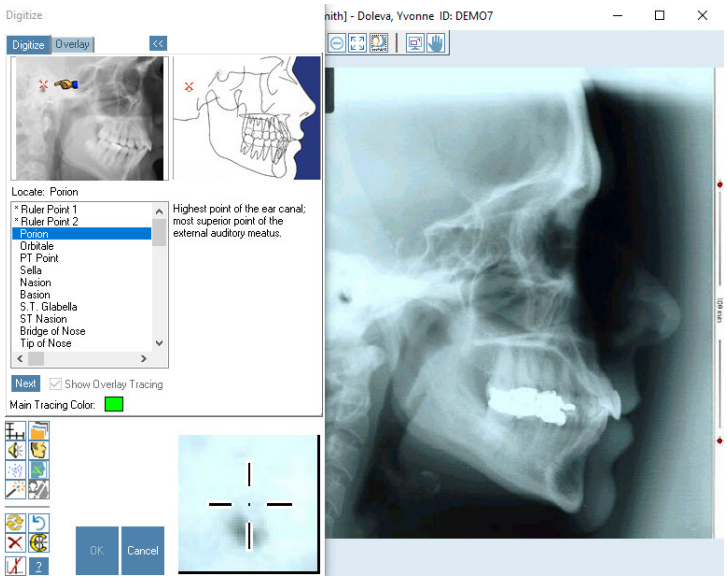
- the type of x-ray (for example,  to digitize a lateral x-ray)
- one or more analyses
- any structures that you want Dolphin Imaging to draw automatically
- whether this is a new session or the continuation of an existing digitize session
- an image calibration method



When you click **Start Digitize**, the patient's x-ray appears in the Digitize dialog box. Using the cartoon and the **Landmarks** list as a guide, click each landmark on the x-ray.

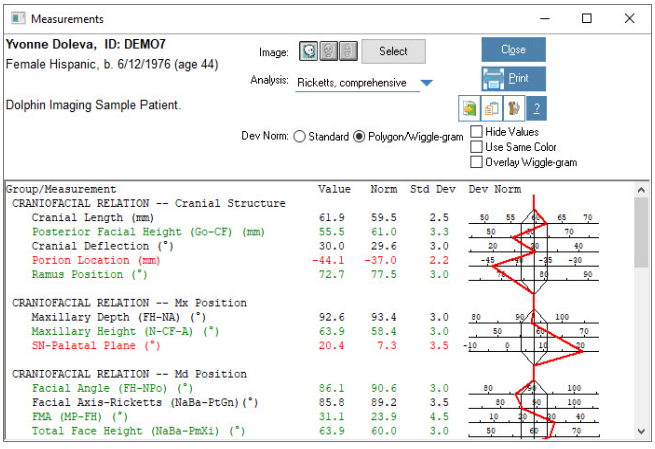
Any auto-drawn structures you selected appear when you digitize the required landmarks. Click and drag the landmarks to modify these structures.

Click **OK** to save the digitized x-ray and return to the main screen.



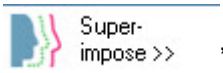
Viewing Measurements

Click  to view a table of the measurements calculated based on the landmarks you digitized on the patient's x-ray.

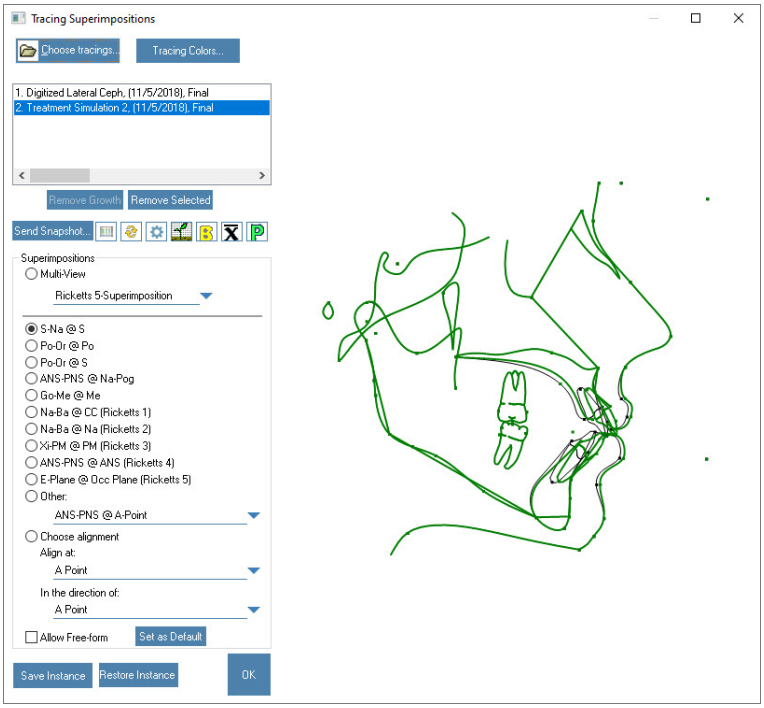


Superimposing Tracings Over Tracings

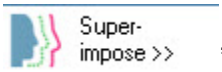
If you have two or more digitized x-rays for a patient, you can superimpose the tracings for analysis and comparison purposes.

Click 

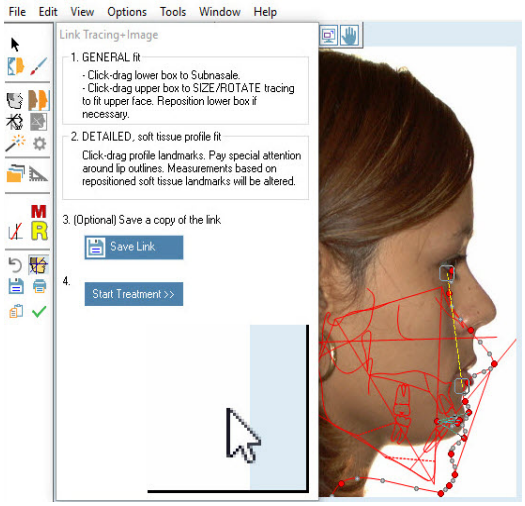
, and select **Tracing Superimpositions**. Then, select the tracings you want to superimpose.



Superimposing Tracings Over Images

To superimpose a tracing over the patient's photo, click 

, and select **Link Tracing+Image for Treatment Simulation**. If necessary, choose a different image to superimpose with the patient's tracing. Then, click **Continue>>**.



To align the tracing and the image:

- Click and drag the lower box to the subnasale
- Click and drag the upper box to size and rotate the tracing
- Click and drag the other landmarks to align the soft tissue profile and lip outlines

Click 

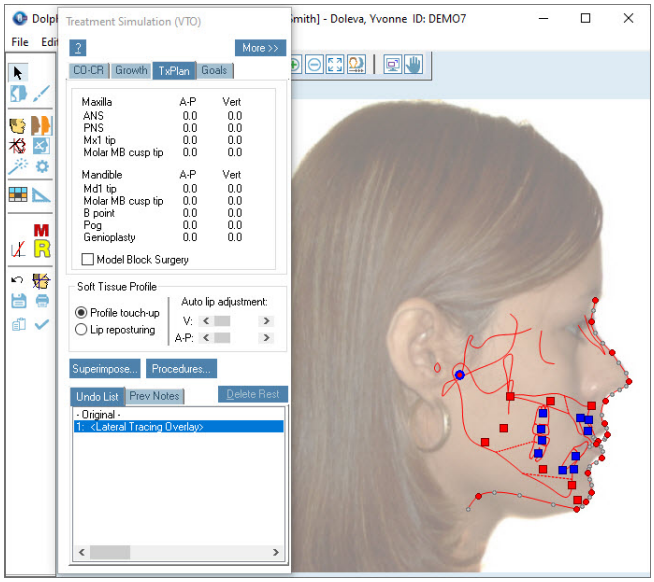
to save the result.

If you have purchased the Treatment Simulation module, you can now click **Start Treatment** to align the patient's image to a reference plane, if necessary, and start treatment simulation.

Treatment Simulation

If you have purchased the Treatment Simulation module, you can simulate treatment using either a lateral x-ray digitized with the @Treatment Plan analysis or a profile photo of the patient superimposed with the patient's tracing.

You can start treatment simulation immediately after superimposing the patient's photo and tracing or by clicking Treatment Simulation on the main screen. Then, click **OK** to start your treatment simulation with the default set of soft tissue movement rules.



Use the red and blue boxes on the patient's image to simulate movement resulting from the planned treatment. When you place the cursor over one of these movement controls, a tool tip indicates the movement that you can perform using that control.

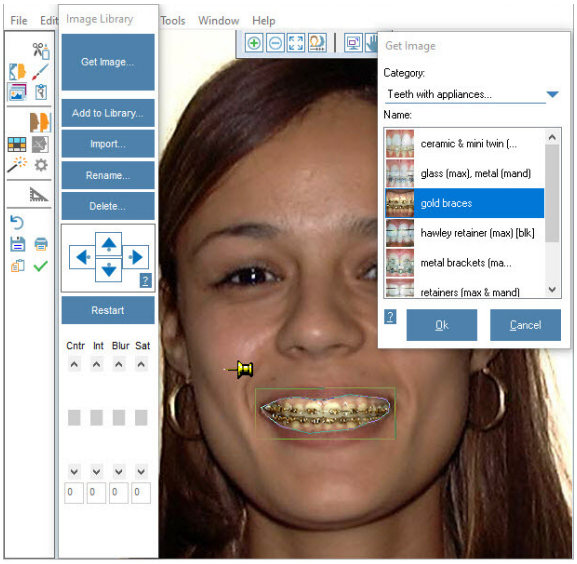
Red triangles appear around controls for lateral movement. A circular arrow appears around a control used for rotation.

Some movement controls perform both lateral and rotational movement. Click and drag for linear movement. To rotate, CTRL+click and drag. When you click a movement control for rotation, a circle appears on the image illustrating the range of the rotation.

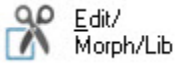
You can also enter movement values to simulate treatment. Click **More>>** to expand the palette. Then, enter values in the fields to simulate movement of the patient's teeth.

When you finish the treatment simulation, click .

Image Editing and Library



If you have purchased the Consultation and Image Library module, you can use a variety of image editing features to quickly modify patient images. This example shows how to add braces to a patient's photo.

Click a photo in which the patient is smiling. Then, click 

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Click  to open the Image Library palette. Draw an outline around the patient's smile. Click **Get Image...**. Select **Teeth with Appliances** from the **Category** drop-down list, then select the type of braces you want to use.

Click  to save the modified image.

To view the modified image side-by-side with the original image, click  . Then, select the amount of the images you want to show (**Full**, **1/2**, or **2/3** images).

If you picked **1/2** or **2/3**, move the sliding rectangle to select the part of the images you want to view. Click again to view the two images side-by-side.

Click  to save the side-by-side view.

Patterson Dental Holdings, Inc. *dba* Dolphin Imaging and Management Solutions
9200 Oakdale Ave, Suite 500
Chatsworth, CA 91311
USA

Toll Free: 800.548.7241
Office: +1.818.435.1368
Fax: +1.818.435.1369

MediMark® Europe Sarl. 11 rue Emile Zola. BP 2332
38033 Grenoble Cedex 2. France

Australian Sponsor
Emergo Australia Level 20 Tower II,
Darling Park 201 Sussex Street
Sydney, NSW 2000 Australia