

# Planmeca Romexis® Smile Design

*user's manual*



# Table of contents

---

<b>1</b>	<b>INTRODUCTION</b>	<b>3</b>
<b>2</b>	<b>SYSTEM REQUIREMENTS</b>	<b>3</b>
<b>3</b>	<b>INSTALLATION</b>	<b>4</b>
3.1	Windows installation	4
3.2	MacOS installation	8
<b>4</b>	<b>GETTING STARTED</b>	<b>11</b>
4.1	Installing license	11
4.2	Activating license	12
4.3	Transferring license to another installation	14
4.4	Adding patients	15
<b>5</b>	<b>CAPTURING IMAGES FOR SMILE DESIGN</b>	<b>17</b>
<b>6</b>	<b>SMILE DESIGN</b>	<b>18</b>
6.1	Using Planmeca Romexis Smile Design interface	18
6.2	Importing images	19
6.3	Opening patient images	20
6.4	Using viewing tools	21
6.5	Deleting images	21
6.6	Assign as face photo	21
6.7	Aligning and cropping images	22
6.8	Image calibration	22
6.9	Adding a teeth design	23
6.10	Defining the smile area	27
6.11	Aligning intraoral image with smile image	28
6.12	Selecting teeth shades	29
6.13	Using photo-realistic simulation tools	30
6.14	Using viewing, measurement and drawing tools	32
6.15	Printing smile design images	34
6.16	Exporting smile designs	41

The manufacturer, assembler and importer are responsible for the safety, reliability and performance of the unit only if:

- installation, calibration, modification and repairs are carried out by qualified authorised personnel
- electrical installations are carried out according to the appropriate requirements such as IEC 60364
- equipment is used according to the operating instructions.

Planmeca pursues a policy of continual product development. Although every effort is made to produce up-to-date product documentation this publication should not be regarded as an infallible guide to current specifications. We reserve the right to make changes without prior notice.

COPYRIGHT PLANMECA  
Publication number 10038258 Revision 7  
Released 13 July 2016

# 1 INTRODUCTION

Planmeca Romexis Smile Design software is a dedicated tool for digital smile design. A patient smile image and intelligent tooth designs are used to design patient a new smile in a matter of minutes. A retractor image can be aligned with the smile image to aid e.g. in more detailed gum-line and tooth dimensions design. The finished design can be exported on top of CAD/CAM or Ortho Software, sent to a dental lab using Planmeca Romexis Cloud service or printed out.

This manual describes how to use the Planmeca Romexis Smile Design software.

Read this manual carefully before using the system.

This manual is valid for the Planmeca Romexis Smile Design software version 4.5.0.B or later.

In addition to this manual you can watch Smile Design tutorial videos at:

<http://www.planmeca.com/smiledesign/digital-smiledesign/videos/#TutorialVideos>



To access the videos directly click this button at the top right corner of the screen.

## 2 SYSTEM REQUIREMENTS

The Planmeca Romexis Smile Design can be used with the following operating systems:

- Windows 10 (64 bit)
- Windows 8 & 8.1. (64 bit)
- Windows 7 (64 bit)
- Windows (64 bit)
- Mac OS X 10.11, 10.10 & 10.9.

Planmeca Romexis Smile Design conforms to Windows user interface standards. Mac OS operating systems are supported with certain limitations.

User organization must take care of protecting the computer and the network by using up-to-date virus and malware protection software and fire wall.

## 3 INSTALLATION

### 3.1 Windows installation

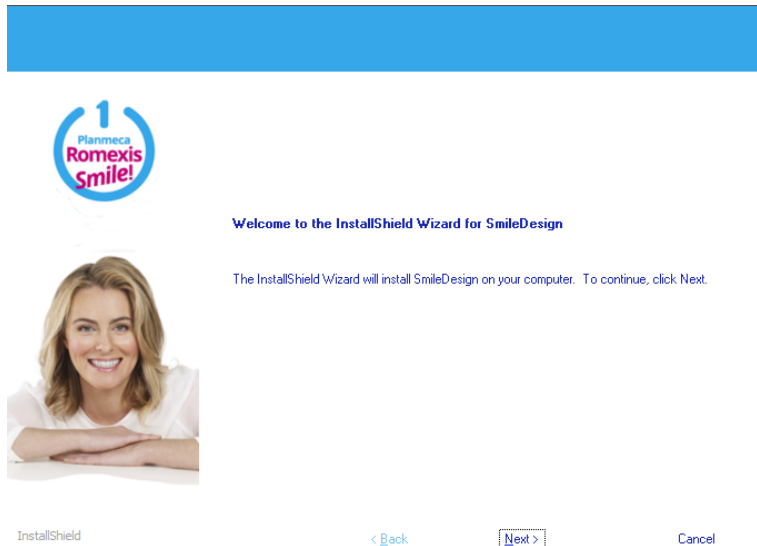
#### 3.1.1 Fresh installation

After downloading the Planmeca Romexis installation package for Windows:

1. Unzip the installer package by right-clicking on the **Planmeca\_Romexis\_Smile\_Design.zip** package and selecting **Extract All**.



2. Double-click on the **Setup.exe** to start the installer application.
3. Proceed through the installation by clicking the **Next** button.



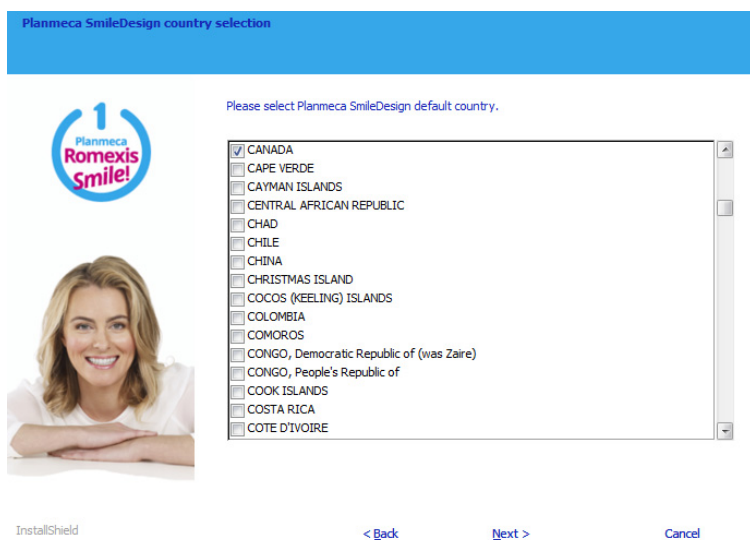
4. Accept the license agreement by selecting *I accept...* and clicking **Next**.



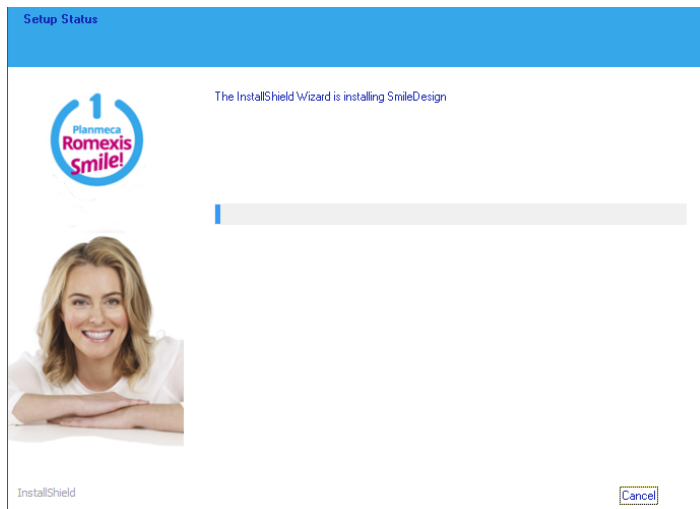
## 5. Select the default language to be used for Planmeca Romexis Smile design.



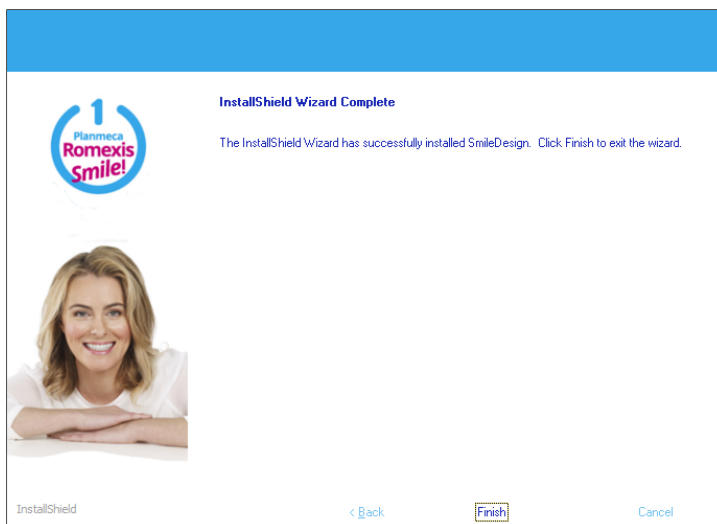
## 6. Select the default country to be used for Planmeca Romexis Smile design

7. Click **Install**.

The installation starts and the installation progress bar appears.



8. When installation is complete click **Finish**.



### 3.1.2 Update installation

In an update installation the current software version is updated to the most recent one.

1. Click **Next**.

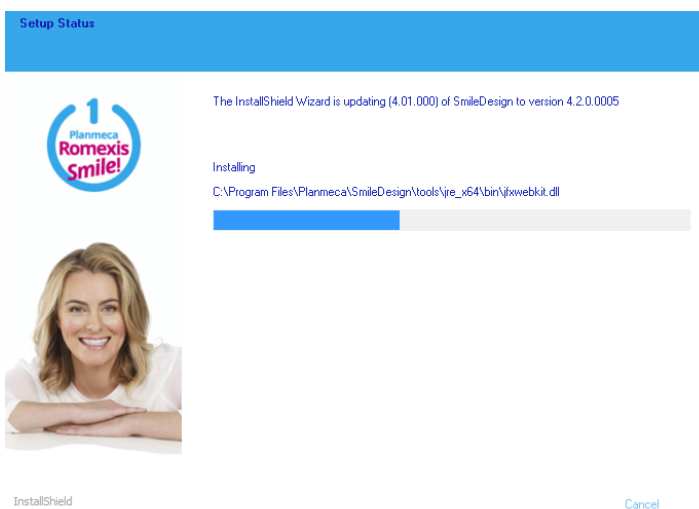
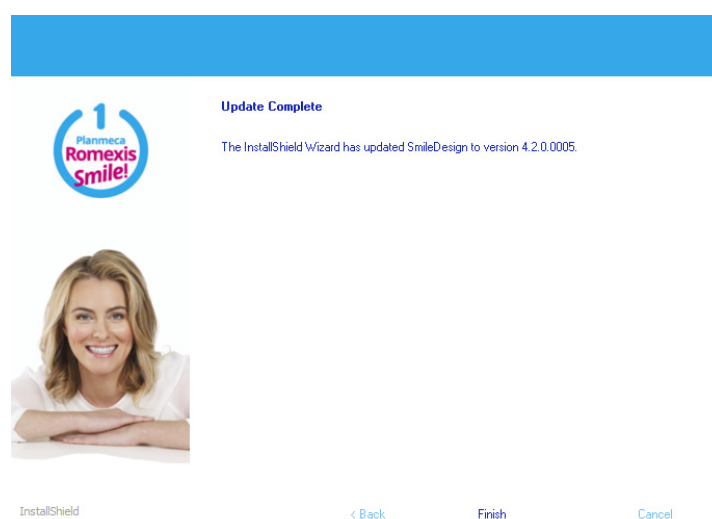




## 2. Select installation language.



## 3. Wait for the installation.

4. To complete the installation click **Finish**.

### 3.1.3 Repairing existing installation

1. Select the **Repair** option and click **Next**.

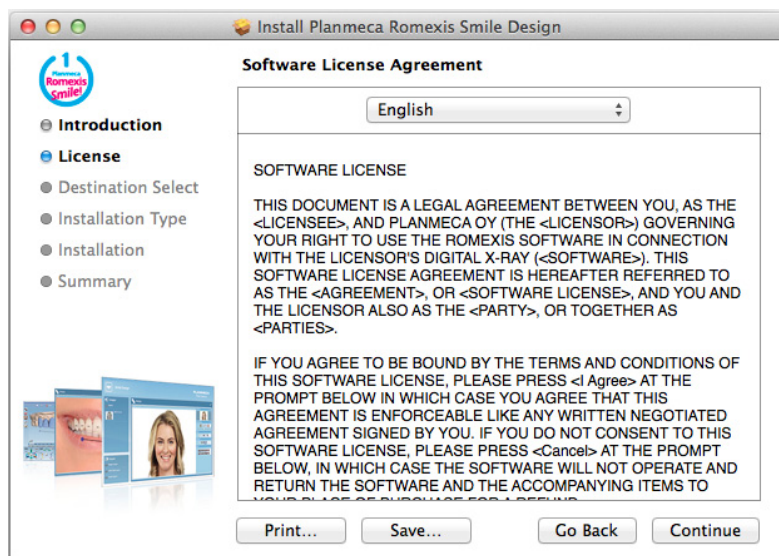
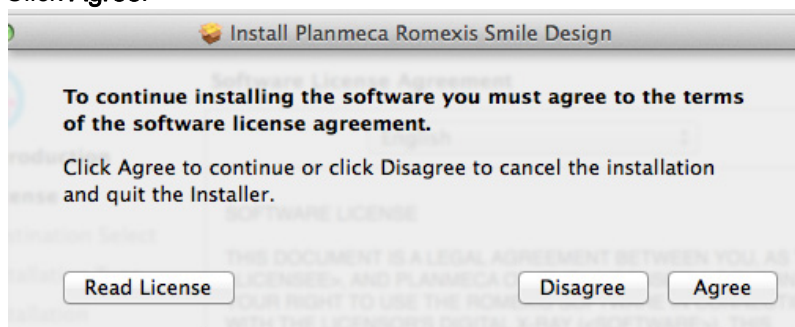
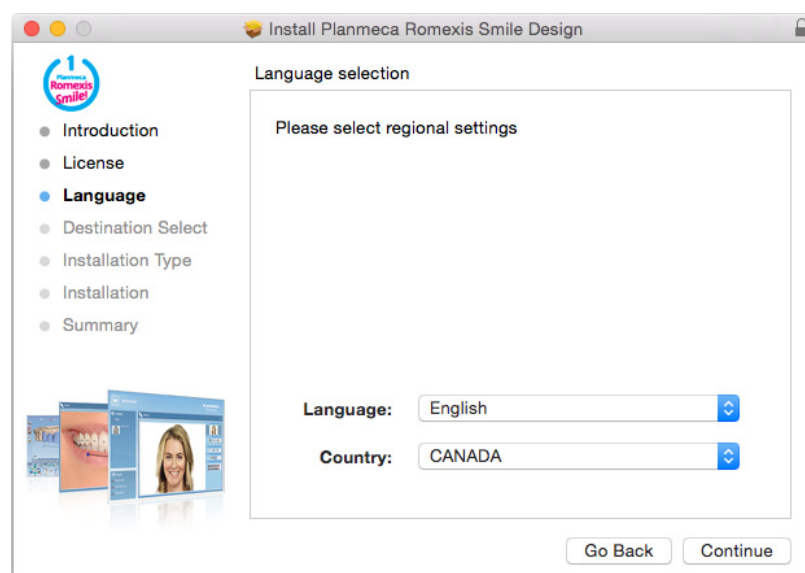


## 3.2 MacOS installation

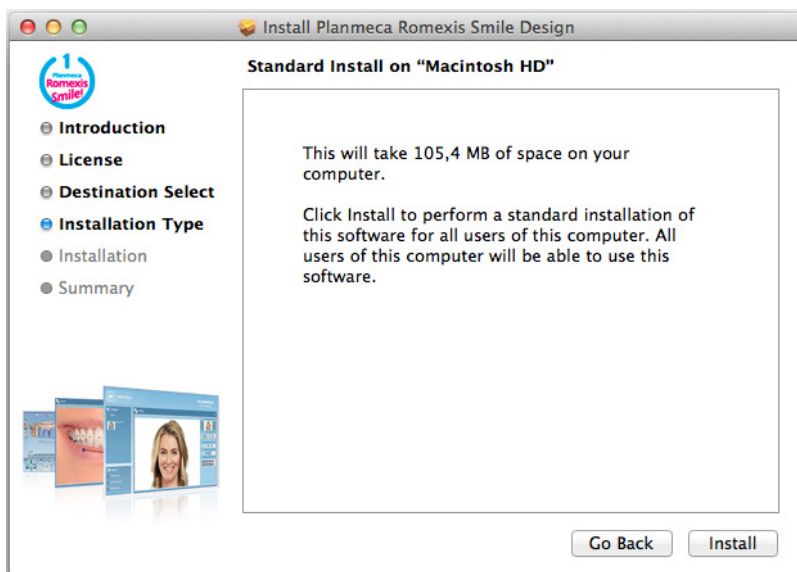
After downloading the Planmeca Romexis Smile Design installation package proceed to installation.

1. Double-click on the **Planmeca Romexis Smile Design.pkg** to start the installer application.
2. Click **Continue**.



3. Click **Continue**.4. Click **Agree**.5. Select installation language and country and click **Continue**.

6. Click **Install**.



7. Enter your name and password and click **Install Software**.



## 4 GETTING STARTED



1. Double-click this button on your desktop to start the Planmeca Romexis Smile Design. When starting the software before the license has been installed the following window opens.



**Thank you for trying Planmeca Romexis® Smile Design!**

You have **10** more day(s) to use Planmeca Romexis® Smile Design. To continue use after this trial period, you must activate your Planmeca Romexis Smile Design licence. What would you like to do?

**10**

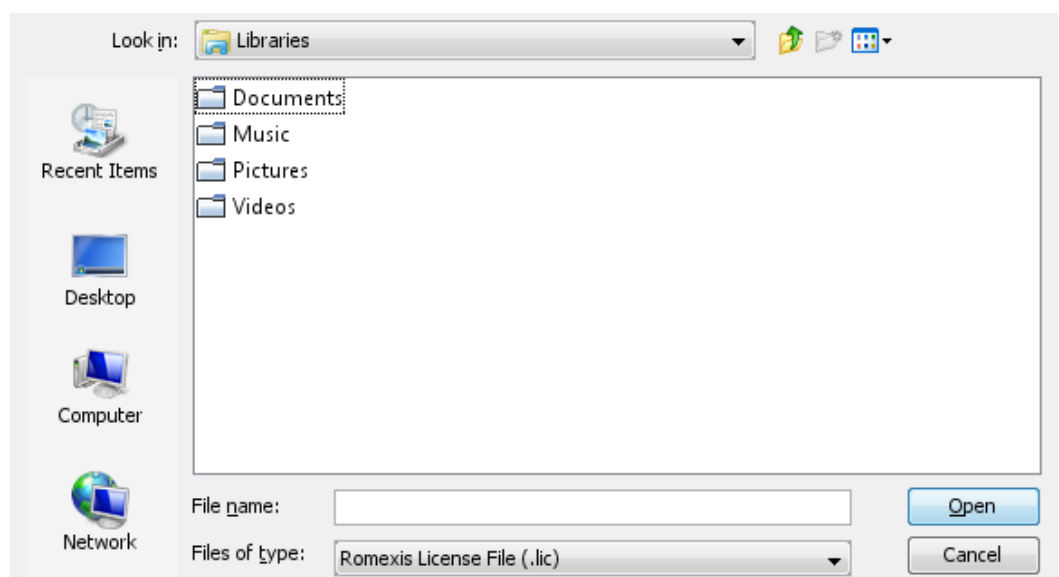
**Days Remaining**

2. Select from the following options:
  - Continue using the trial version by clicking **Continue trial**.
  - Purchase the Smile Design license from the Planmeca Online web-store by clicking **Buy**.
  - Install the license downloaded from the Planmeca Online web store by clicking **Install license**.

### 4.1 Installing license

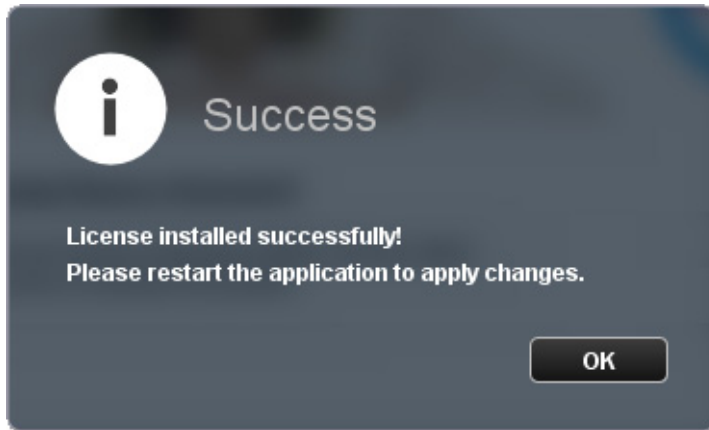
After clicking the **Install License** button a license installation dialogue opens and asks for the license file **romexis.lic**.

1. Browse to the license file and click **Open**.



When the license has been successfully installed the following message appears.

2. Click **OK**.



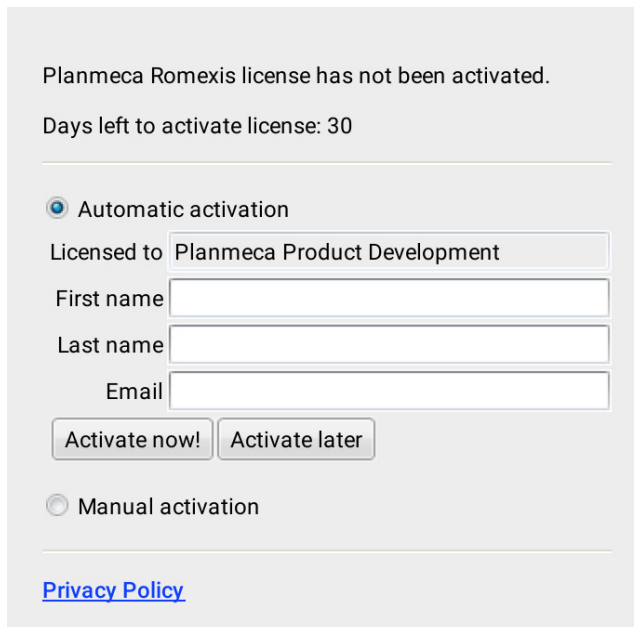
## 4.2 Activating license

The functions in the Planmeca Romexis Smile Design application are controlled by license and user rights. In order to use the application the license must be activated.

### 4.2.1 Automatic online activation

A dialogue requesting for activation will pop up when Planmeca Romexis Smile Design is started (until activated) after new and updated Planmeca Romexis Smile Design. A period of 30 days is given to activate the Planmeca Romexis Smile Design license.

When connected to the Internet activate the license by filling in user name and email address.

A light gray dialog box for license activation. At the top, it says "Planmeca Romexis license has not been activated." followed by "Days left to activate license: 30". Below this is a horizontal line. There are two radio button options: "Automatic activation" (which is selected) and "Manual activation". Under "Automatic activation", there is a "Licensed to" field with the text "Planmeca Product Development". Below that are three input fields for "First name", "Last name", and "Email". At the bottom of this section are two buttons: "Activate now!" and "Activate later". Below the "Manual activation" option is another horizontal line, followed by a blue link labeled "Privacy Policy".

## 4.2.2 Manual activation

When there is no fixed Internet connection available the license can be manually activated using a mobile, for example. If manual activation is selected the following dialogue appears. Follow the instructions in the dialogue and web page.

### NOTE

Use the end customer details, not the dealer's.

Planmeca Romexis license has not been activated.

Days left to activate license: 30

---

Automatic activation

Manual activation

1. Go to Planmeca Romexis license activation page at <https://activate.planmeca.com/romexis/>

2. Type or copy and paste the following key to the activation web site:

3. After activation, type or paste the activation key from web page to the text box below.

---

[Privacy Policy](#)

**PLANMECA**

### Planmeca Romexis - Manual Licence Activation Page

End Customer Details ✔ Required Fields

Licensed to

First Name

Last Name

E-Mail Address

Installation ID


Enter 25 character Installation ID from Planmeca Romexis  
Format: ####-####-####-####-####

Installation ID

Activation ID

Copy the following Activation ID to Planmeca Romexis

Activation ID



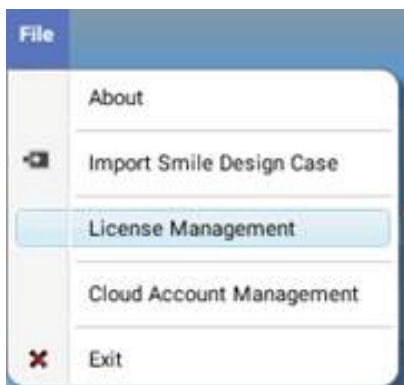
Planmeca Oy  
 +358 20 7795 500  
 www.planmeca.com

[Privacy Policy](#)

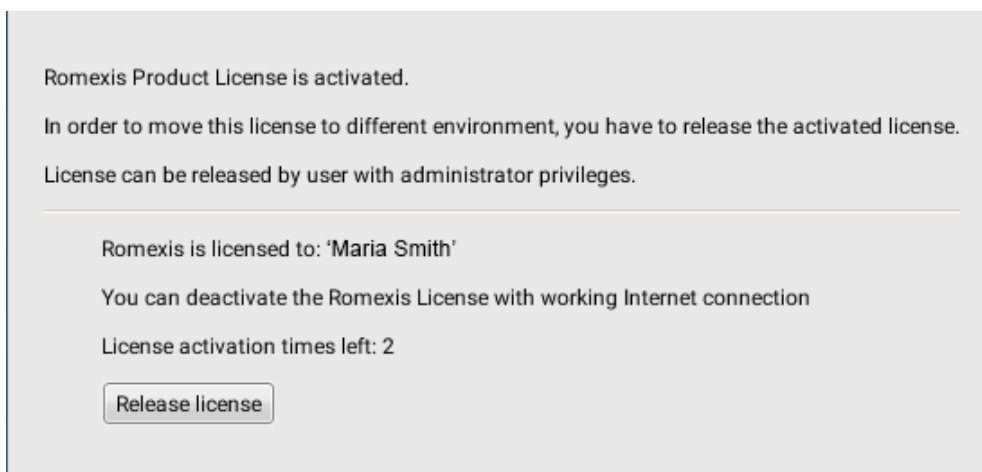
### 4.3 Transferring license to another installation

If transferring the license from one Planmeca Smile Design workstation to another the license must first be released from the current workstation.

To release the license select **License Management** from the *File* menu.



In the following window click **Release license**.



After releasing the license it can be activated on another workstation.



## 4.4 Adding patients

1. To create a new patient click the **Add patient** button.

The screenshot shows a search bar with the text 'Type in Patient's ID or Name' and an 'Add Patient' button to its right. Below the search bar is a 'Recently Opened' section with a table of patient entries. At the bottom right, there are three sorting icons: 'Date' with a downward arrow, 'ID' with an upward arrow, and 'Name' with an upward arrow.

2. Enter the necessary information in the *Patient information* field.  
The obligatory fields are *Person ID*, *First name* and *Last name*.



3. To add a photo in the *Patient photo* field click the **Edit** button, then the **Import Photo** button and select the photo in the folder.



The imported photo appears in the *Patient photo* field.



4. To add comments click the **Edit** button in the *Comments* field, type the text and click **Save**.

The screenshot shows the 'Patient Management' interface for 'PLANMECA Romexis Smile Design'. It features a search bar, a 'Patient Information' section with fields for Person ID (12345), Title, First Name (Jane), Second Name, Last Name (Doe), Name Suffix, Date Of Birth, Gender, Nationality, Language (English), Occupation, and SSN. There is an 'Edit' button below the information fields. To the right is a 'Patient Photo' section with an identification photo of a woman and an 'Edit' button. Below the information fields is a 'Comments' section with a text area and an 'Edit' button. To the right of the comments is a 'Next Step' section with a 'Start Smile Design' button.



5. To save the patient into the database click the **Save** button.

### 4.4.1 Searching patients

Start entering the name or the ID of the patient in the search field.

The screenshot shows the 'Search or Add Patients' interface. The search field is highlighted with a white background, and the 'Add Patient' button is visible to its right.

The software automatically returns patients corresponding to the entered search term.

### 4.4.2 Sorting patients


Patients in the patient list can be sorted by date, ID or name by clicking these icons.



### 4.4.3 Editing patients

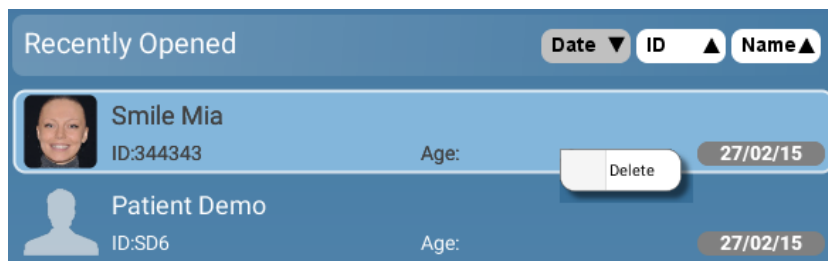
1. Select the patient you want to edit on the list.



 3. When finished with editing click the **Save** button.

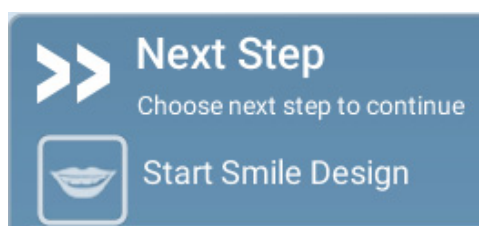
### 4.4.4 Deleting patients

Right-click a patient on the list and select **Delete** from the menu.



Both the patient and the images will be deleted.

To proceed to smile designing, click the **Start Smile Design** button from *Next Step*.



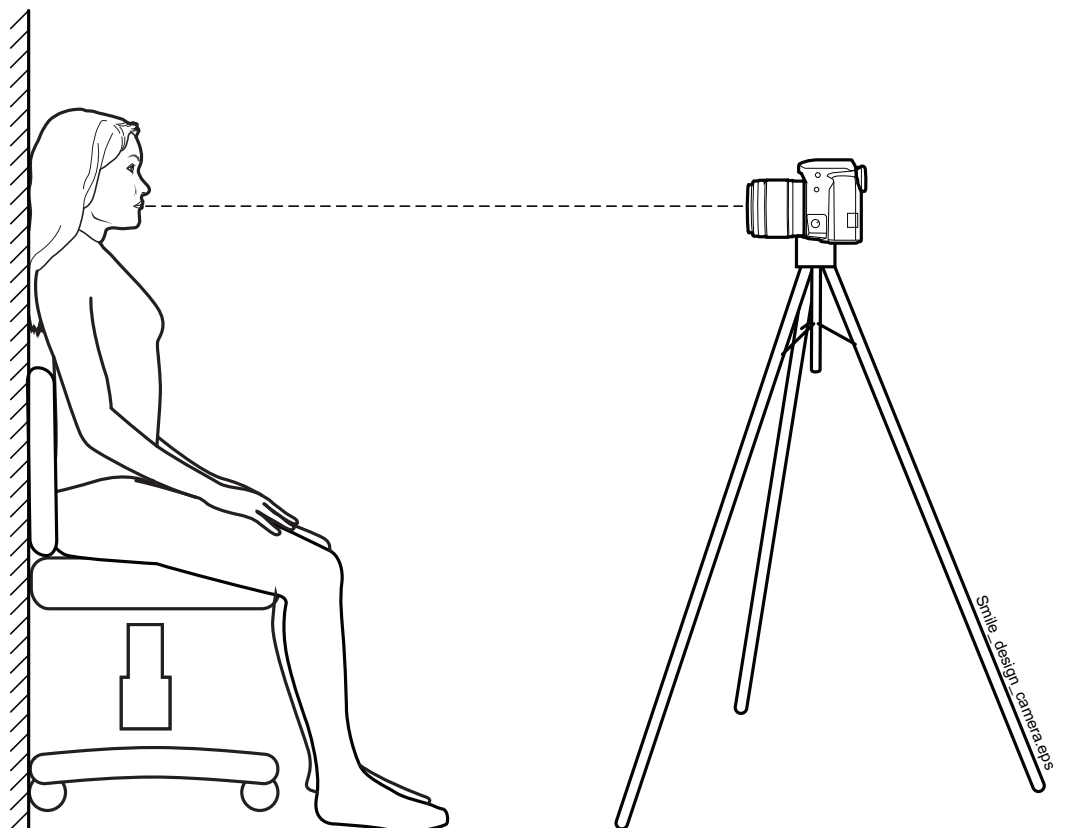
## 5 CAPTURING IMAGES FOR SMILE DESIGN

A frontal smile photograph is needed for digital smile design. Also, a retractor image is recommended in case the gum line is not visible in the smile photograph.

The patient should be positioned near the wall or imaging background to eliminate shadows caused by the reflections from behind the patient.

The images should be captured from the same angle from the front of the patient so that the camera is perpendicular to the patients face. The use of a camera stand is strongly recommended. The face of the patient should be directed straight towards the camera so that both ears remain equally visible.

The distance between the camera and the patient depends on the camera and objective used – it is recommended to capture photographs including the whole face.

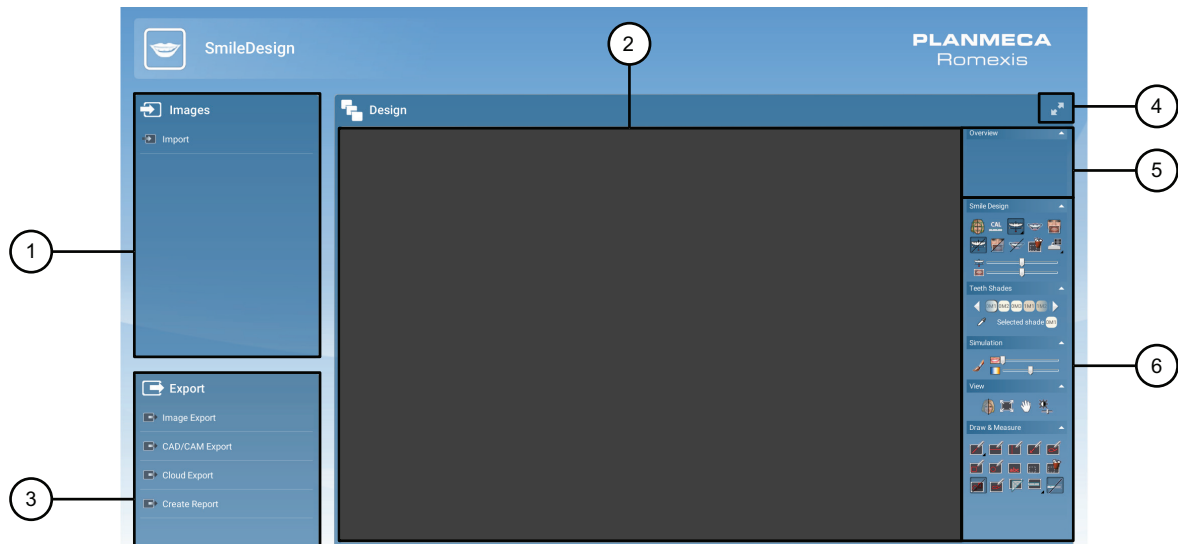


The images should be saved in JPG, PNG, TIFF or BMP formats.

## 6 SMILE DESIGN

### 6.1 Using Planmeca Romexis Smile Design interface

The view consists of the following elements.



- 1 Image list and importing    2 Design area    3 Export tools    4 Maximize Design window button    5 Overview image    6 Smile design, simulation, viewing, drawing & measurement tools

#### 6.1.1 Maximizing the design area



To maximize the design area press the arrow-buttons on the top right corner of the *Design* window.

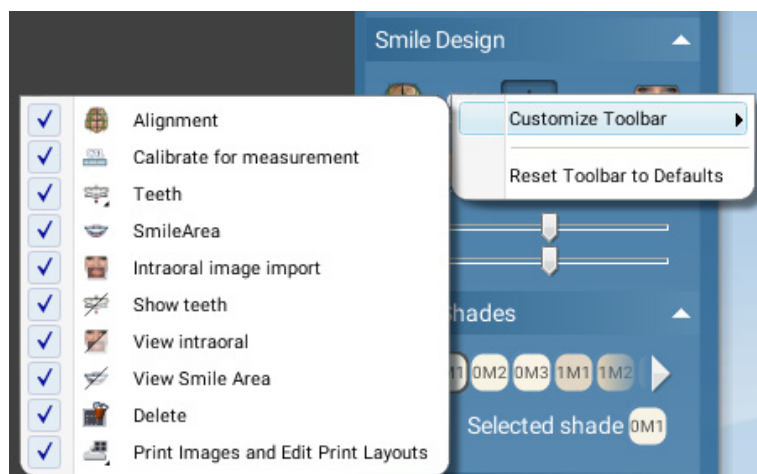
#### 6.1.2 Returning to Patient management view

If necessary you can return to the Patient Management view by clicking this link on top of window.



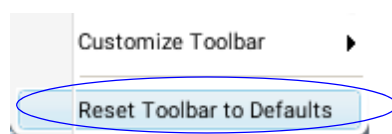
### 6.1.3 Customizing toolbars

By customizing toolbars you can select which tools will be visible in the toolbars. Right-click on any of the tool of the group you would like to customize and select or deselect tools to show or hide.



### 6.1.4 Resetting toolbars

Right-click on any of the tool of the group you would like to reset and click this button.

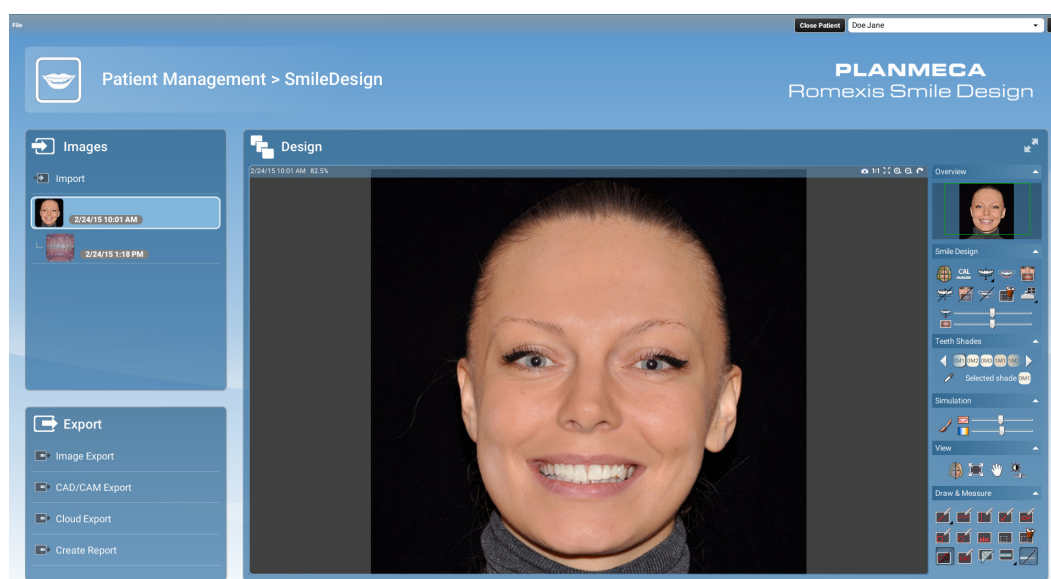


## 6.2 Importing images



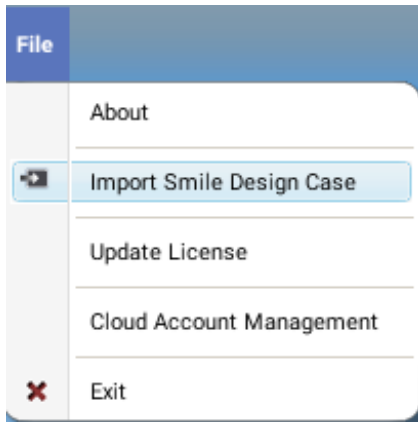
1. Click the **Import** button on the top left corner of the screen.
2. Select the desired image file and click **Open**.

The image is imported into the software.



### 6.2.1 Importing Smile Design cases

To import an entire smile design case (exported from another Planmeca Romexis Smile design application ) with photo, intraoral image (if included), design and annotations select **Import Smile Design case** from the *File* menu.



A patient is created and the imported case can then be further edited as necessary.

### 6.3 Opening patient images

The thumbnails of the current patient's images are shown in the *Images* field on the left of the screen. The import date is shown next to the image.

To add a comment to an image place the mouse cursor over the image thumbnail and click **Add comment**.

Open the image by clicking the thumbnail.



## 6.4 Using viewing tools

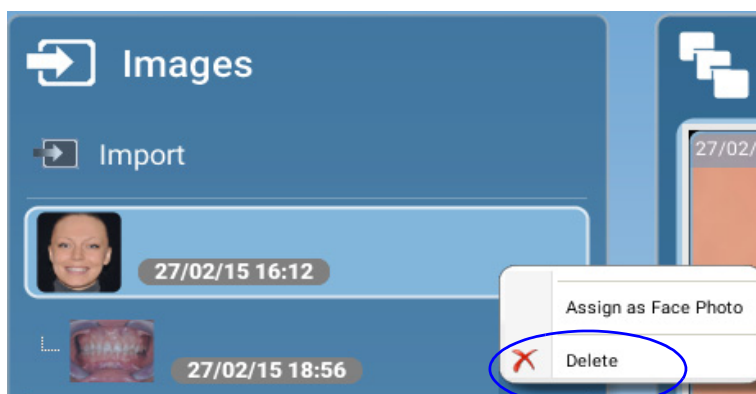


1 2 3 4 5 6 7 8 9 10

1. **Undo** – undoes the latest change
2. **Redo** – redoes the latest change
3. **Revert** – erases all modifications made to the image
4. **Undo history** – shows a list of the changes made to the image and allows user to select multiple changes to be undone or redone
5. **Snapshot to clipboard** - copies the current snapshot image to the clipboard, from where it can be pasted elsewhere.
6. Shows the image in its actual size
7. Zoom to fit – Fits the image to the viewing window
8. Zooms in the image
9. Zooms out the image
10. Rotates the image 90 degrees

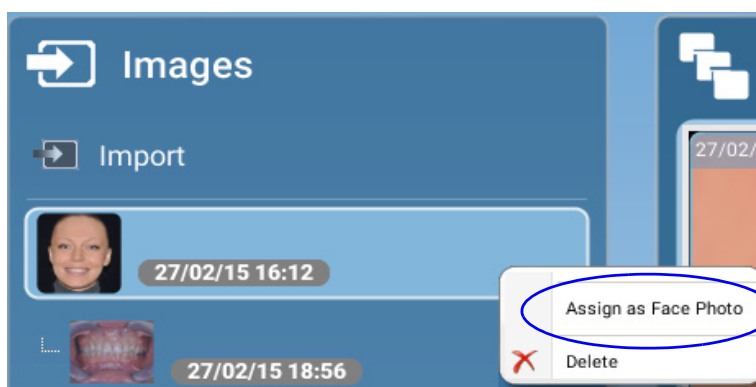
## 6.5 Deleting images

If necessary images can be deleted by right-clicking on an image and selecting **Delete** from the menu.



## 6.6 Assign as face photo

To define the patient identification photo shown in *Patient management* view right-click on an image and select **Assign as face photo** from the menu.





## 6.7 Aligning and cropping images

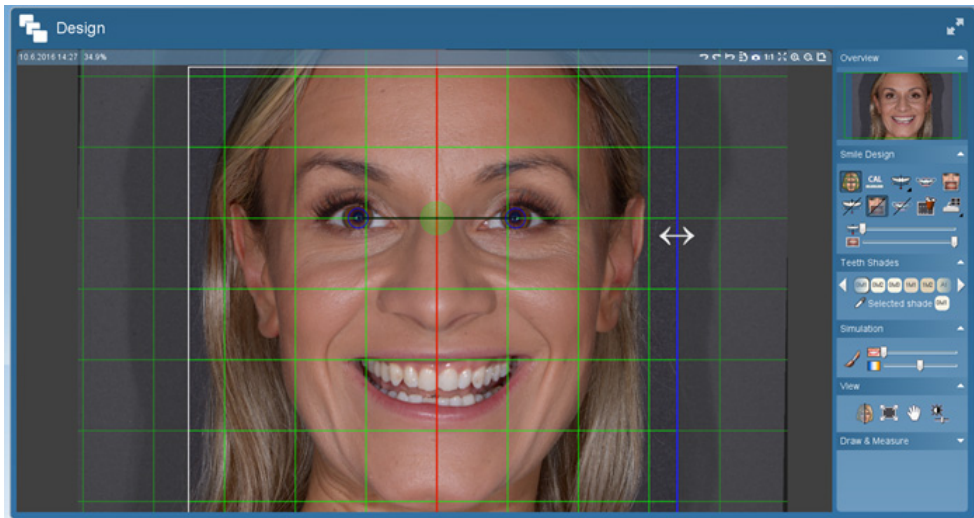
Align the smile image to horizontal using any two points in the image, e.g. pupils as follows:



1. Click the **Align and crop** button in the *Smile Design* group.
2. Position the blue control points by dragging or double-clicking.
3. Double-click on the green control point in the middle to align.
4. For cropping drag the borders of the image.
5. Double-click to crop.

### NOTE

If you need to adjust the cropping use the **Align & Crop** tool as in section 6.7 "Aligning and cropping images".



## 6.8 Image calibration

The image can be calibrated e.g. using the width or height of the object selected for calibration. The calibration affects the teeth dimensions visualized in the teeth design and measurements made using the measuring tools.

In the following instructions the calibration is done by measuring the incisor width.

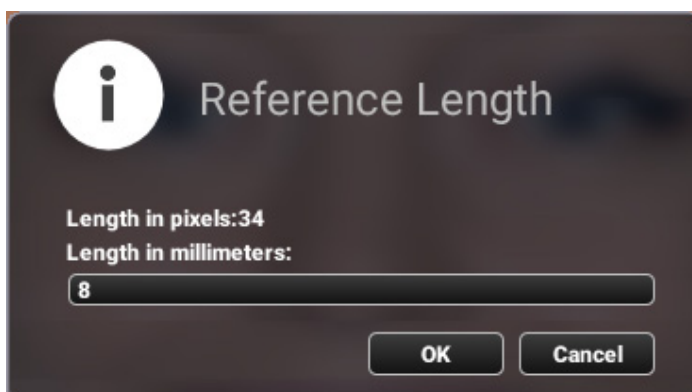


1. Click this button in the *Smile Design* group.
2. Place the mouse cursor on top of the incisor.
3. Draw a horizontal line by pressing and holding down the left mouse button while dragging the pointer e.g. from the left edge of the incisor to the right edge of the incisor.





4. In the following window enter the width of the physical incisor of the current patient in millimetres and click **OK**.

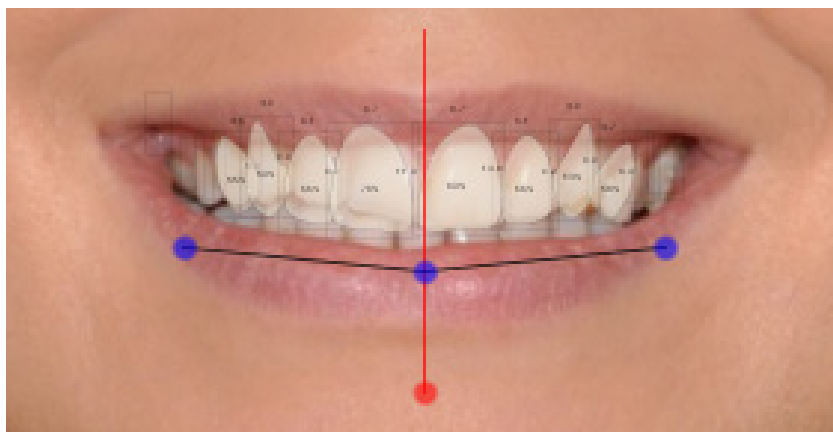


## 6.9 Adding a teeth design

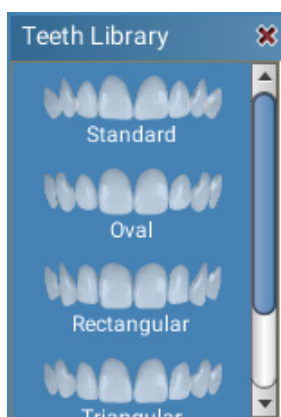


Click the **Teeth** button.

The latest used teeth design automatically appears on top of the smile image.



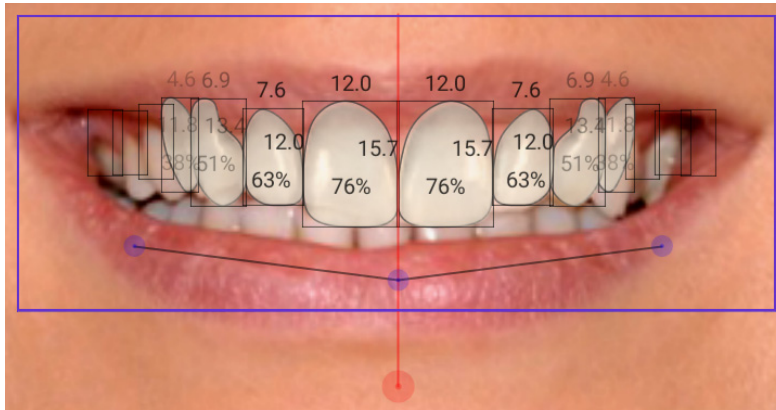
- To select a different design click on the black corner of the teeth button (or left-click and hold down the teeth button for a second) and select the desired template type on the list.



### 6.9.1 Resizing teeth

Move the mouse over the teeth design so that a blue rectangle appears around it.

To adjust the length of all teeth simultaneously place the mouse cursor on the blue rectangle and hold down the left mouse button while dragging.



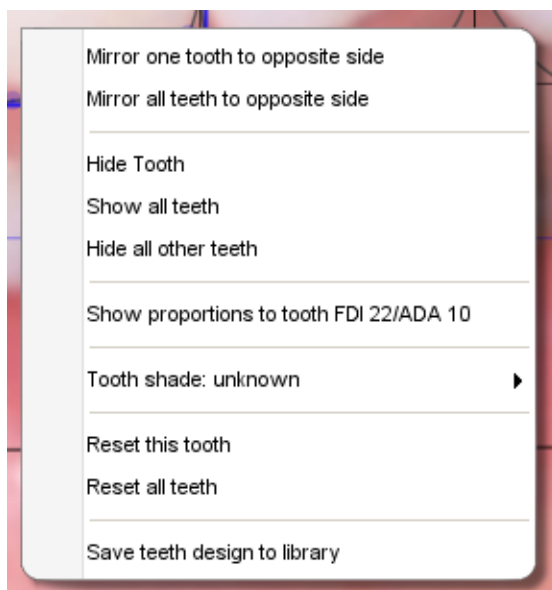
### 6.9.2 Adjusting teeth design

- To translate drag the design from the blue control point at the centre.
- To rotate drag from the red control point at the bottom.
- To bend and scale drag from the lateral blue control points.

#### Visualizing designs

By right-clicking on an individual tooth you can:

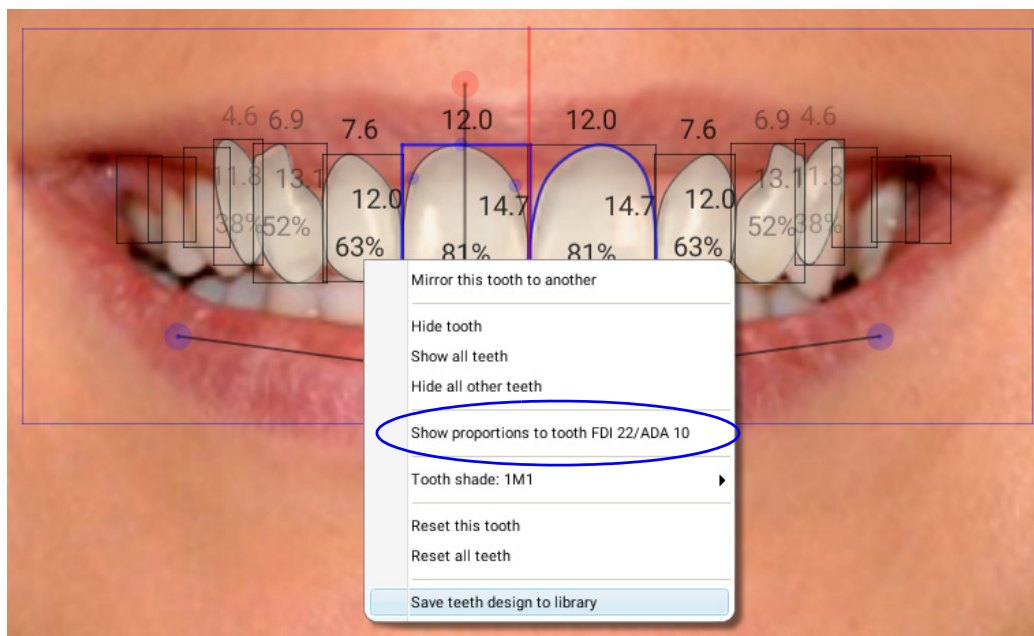
- Mirror one tooth to opposite side
- Mirror all teeth to opposite side
- Hide the selected tooth
- Show all teeth
- Hide all other teeth
- Reset the selected tooth
- Reset all teeth



## Visualizing teeth proportions

You can also switch between showing individual teeth proportions (width / height) and showing width proportions compared to tooth 22 (FDI) / 10 (ADA).

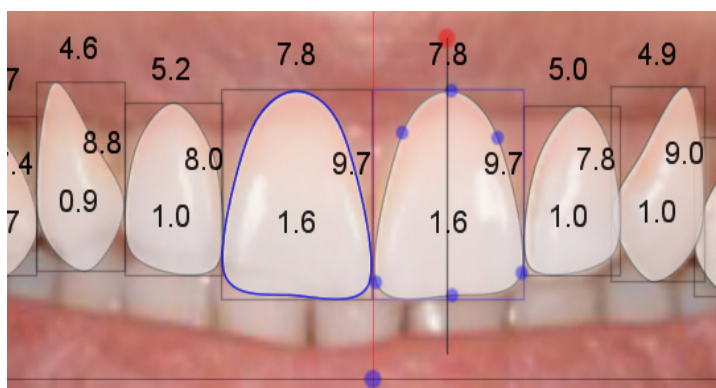
To change the percentage ratio to proportions ratio right-click on the design and select *Show proportions to tooth...*



The percentage values change to proportions values.

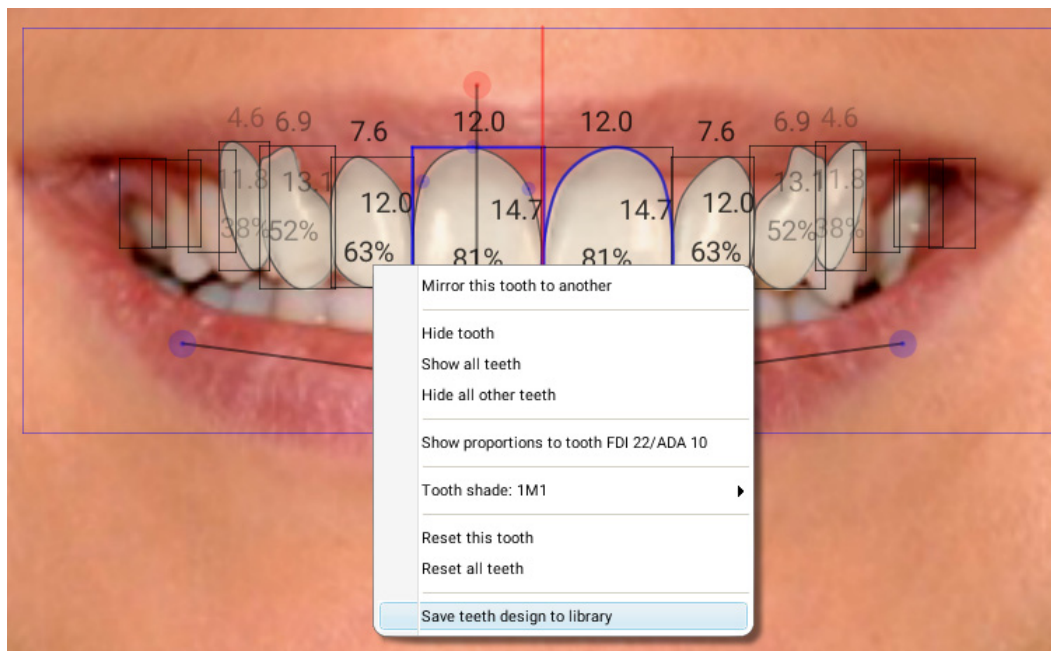
The golden proportions in relation to tooth FDI 22 (left 2nd incisor) are the following: 1st incisor = 1,6; 2nd incisor = 1 and canine = 0,6.

The proportion value shows the width of the each tooth in relation to the left maxillary lateral incisor.

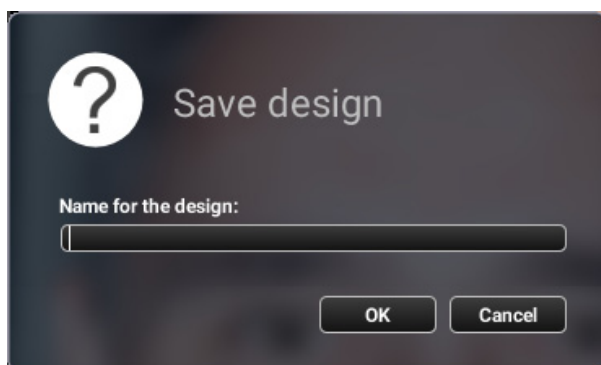


### 6.9.3 Saving own teeth designs to the teeth library

1. Right-click on top of the finished teeth design and select *Save teeth design to library*.



2. Enter a name for your design and click **OK**.



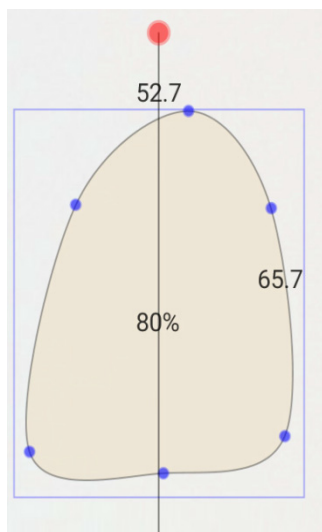
Your teeth design will appear in the list of teeth designs and can be used in the same way as the default designs.

To delete a design from the library right-click on it and confirm the deletion by clicking **Yes**.

### 6.9.4 Adjusting an individual tooth on the design

Start by activating the tooth you want to adjust.

- To lengthen the tooth drag from the bottom or top of the box that is around the tooth
- To widen the tooth drag from the sides of the box that is around the tooth
- To reshape drag from the blue control points on the tooth outline
- To add or remove control points double-click on the outline
- To rotate the tooth drag from the red control point above the tooth



#### NOTE

The design of the selected tooth shows as mirrored to the other side.



To hide the design press the show / hide design button.

To adjust the transparency of the design move the design transparency slider.



### 6.10 Defining the smile area

The smile area needs to be defined so that the teeth can be hidden behind the lips so that the teeth are covered when smiling.



1. Click the **Smile area** button.
2. Move the smile area as necessary by dragging from its edges using the left mouse button.
3. Adjust the area by dragging the line from the blue control points.



To add or remove control points double-click on them.

4. Hide the teeth under the lips by releasing the mouse button.



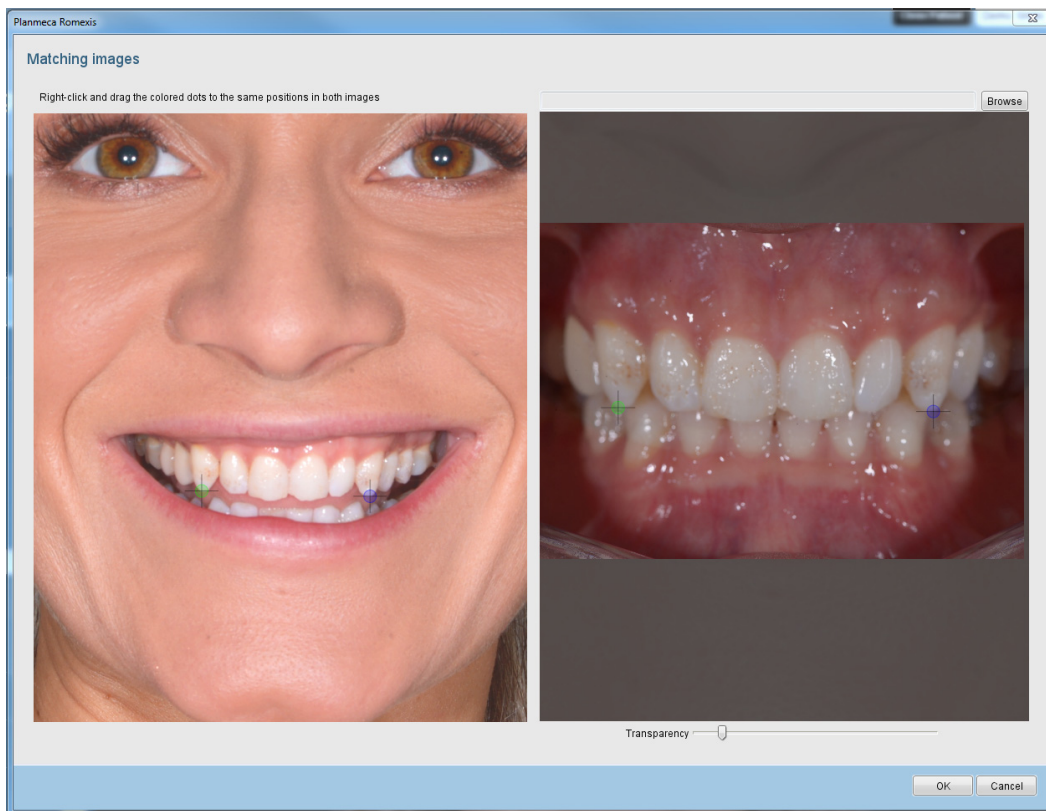
To show / hide the smile area press the **View smile area** button.

## 6.11 Aligning intraoral image with smile image

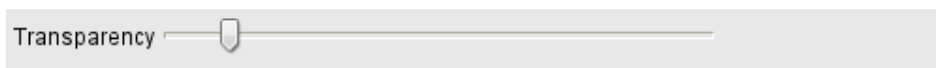


1. Click the **Intraoral image import** button.
2. Select the suitable retractor image and press **Open**.
3. Align the intraoral image by right-clicking and dragging the coloured dots to the same position in both images.

The image can be moved by left-clicking and dragging.



4. Use the transparency slider to view the matched images.



5. Save the alignment by clicking **OK**.

To adjust the alignment or to change the intraoral image return to step 1 to import intraoral image.



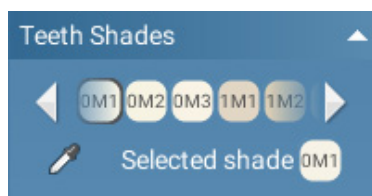
## 6.12 Selecting teeth shades

Teeth shades can be set for all teeth or for a single tooth at a time.

### 6.12.1 Selecting shade for all teeth

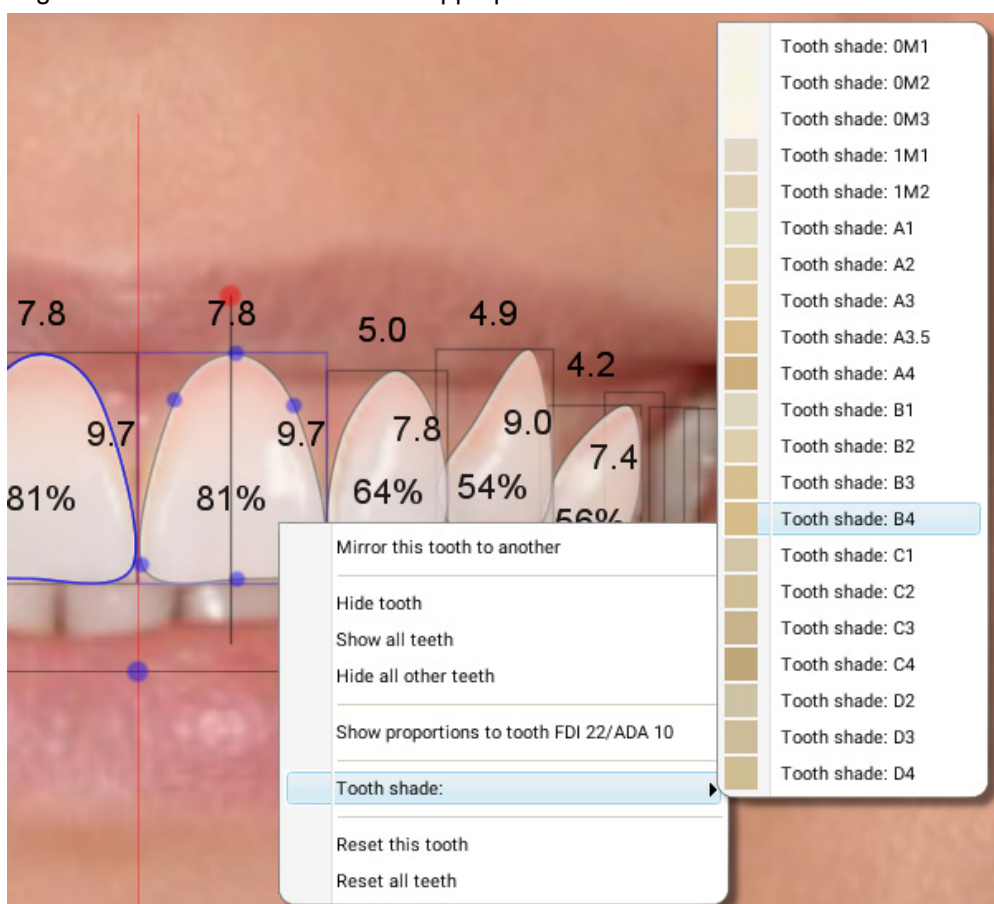
Select the desired shade from the Teeth shades menu in the vertical toolbar.

The available shades are as determined in the VITA Classical shades guide including bleached shade.



### 6.12.2 Selecting shade for single tooth

Right-click the tooth and select the appropriate shade from the menu.



### 6.12.3 Picking colour from existing tooth



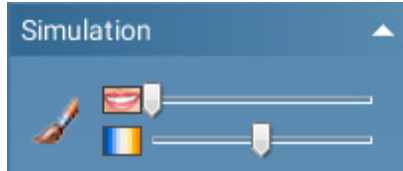
Click the **Pick colour** button and then click on the tooth with wanted teeth colour. The design is automatically adjusted to that colour.

## 6.13 Using photo-realistic simulation tools

### 6.13.1 Adjusting transparency and shade

The photo-realistic look can be added to teeth design by using the transparency slider (the upper one) in the *Simulation* tools group.

To adjust the shade from cold to warm use the lower slider.



### 6.13.2 Using Clone brush

#### NOTE

For more information on how to use this tool see also the demonstration video on <https://vimeo.com/147091693>



The clone brush can be used to make photorealistic changes in the image for example for adjusting the gumline. Also minor adjustments elsewhere in the image can be made.

1. To clone an area place the mouse cursor over the area you want to clone.
2. Right-click on the area.

The area you are about to copy shows as a dashed circle in the image.



The mouse cursor automatically turns to a continuous light-blue circle.

3. Move the cursor over the area where you want to clone the selected area and clone the area by clicking once the mouse left button.

To clone a larger area from around the area you are about to copy hold down the left mouse button while dragging.

In the example case below the tooth has been made shorter by cloning.



Before cloning

After cloning



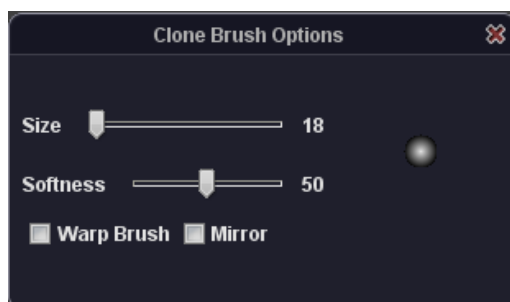
## Adjusting size and softness of the brush

To adjust the size of clone brush:

- Use the size slider in the dialogue box in the upper right corner of the image.
- or
- Hold down the right mouse button while dragging to up-left and down-right over the image.

To adjust the transparency of the border of the cloned area, drag the *Softness* slider in the dialogue box. The greater the softness value, the more transparent the cloned area. Minimizing softness produces a sharper cloning result.

The size and softness adjustments apply also for warp brush, see below.



## Warp brush

The warp brush can be used for stretching or moving tissues and for straightening teeth.

Warp Brush

To activate the tool check the *Warp brush* option. To stretch the image area inside the dashed line circle hold down the left mouse button while dragging.



Before warping

After warping

## Mirror

Mirror

The mirror option can be used with Clone brush (not with Warp brush). This option can be used to copy a mirror image of an area to another one for example for creating a symmetrical teeth and gumline on both sides of the teeth.



Before mirroring

After mirroring

## 6.14 Using viewing, measurement and drawing tools

### Viewing tools



Shows a comparison of the original imported image and of the current design. To exit the comparison view press any key on your keyboard or the mouse button. By pressing P you can print directly a before/after image as seen on the screen.



Fits images to viewing window



Moves image on the screen

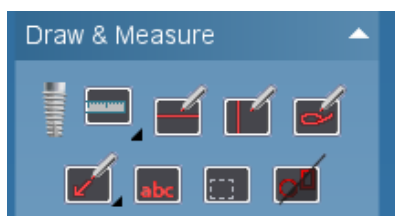
When enabled, holding down the right or middle mouse button allows brightness/contrast adjustment on top of the image.



Adjusts contrast and brightness.

When enabled, vertical movement affects contrast and horizontal movement brightness. Drag the sliders or move the mouse on the image while holding down the left mouse button.

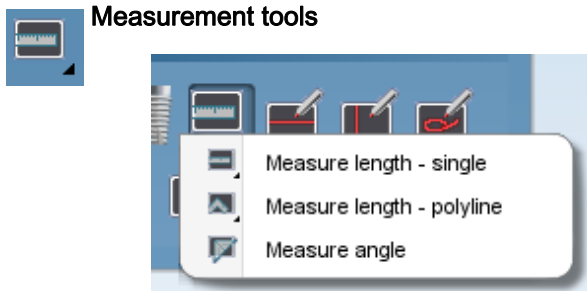
### Drawing & measurement tools



**Add implant**

Adds a generic implant to the image.

## Measurement tools



### ***Measure length - single***

For measuring length between 2 points (default). Draw the line by dragging with the left mouse button, release to finish the line.

### ***Measure length - polyline***

For measuring length between several points. Draw the line by dragging with the left mouse button, release to finish the line.

### ***Measure angle***

Measure angle by holding down the left mouse button, release to finish the angle.



**Draw horizontal line**

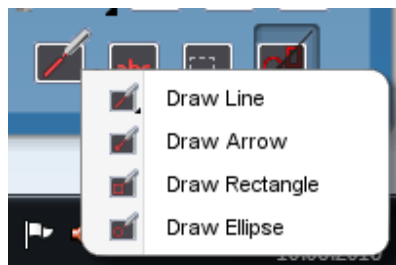


**Draw vertical line**



**Draw curve**

## Other drawing tools



**Draw line**

To draw a line between 2 points (default) hold down the left mouse button while dragging, release the button to finish.



**Draw arrow**



**Draw rectangle**



**Draw ellipse**



### Add text

Click this button and click with the mouse where you want to add the text.

Type the text to the opening window and click *OK*.

To edit the text later select the text with the *Select annotations* button (see below) and then double-click the text. Edit the text and click *OK*.



### Select annotations

The colour and line width of the annotations (line, arrow, circle, rectangle, curve) can be adjusted. Select and adjust the annotation as desired in the *Color* and *Width* menus.

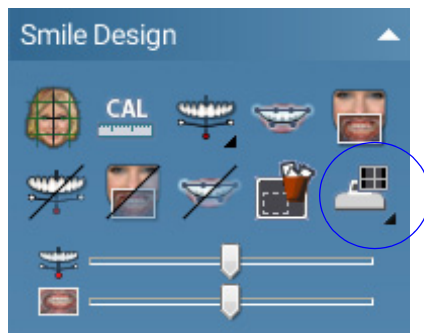


### Show / hide annotations or measurements

Shows and hides annotations. Note that even if the annotations are hidden they are still stored with the image.

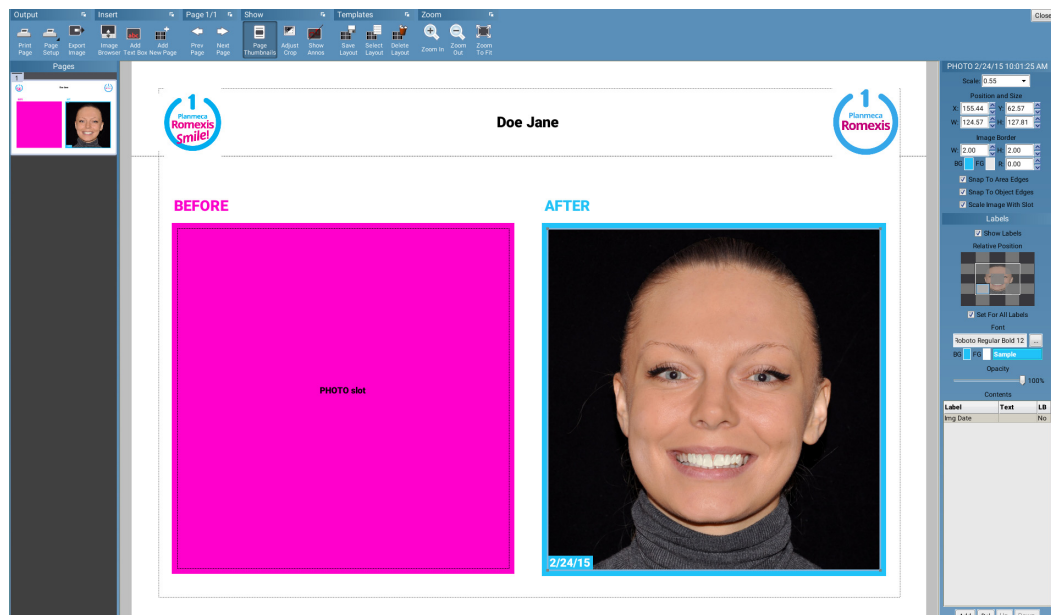
## 6.15 Printing smile design images

1. Open the image you wish to print. The image will be printed as it appears on the screen
2. Click the **Print editor** button in the *Smile design* group.

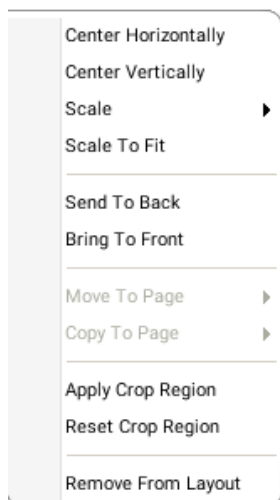


The image opens directly in the *Print editor*.

3. Select images to include in / delete from the printout.  
The images open in Print editor.



4. Adjust the layout of the pages by dragging and dropping the images as necessary.
  - To resize an image drag it from the corners.
  - To open a shortcut list for layout adjustments right-click the image.



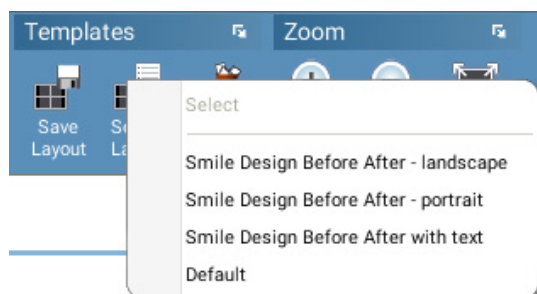
5. When finished with the adjustments click this button to start printing the pages.

### 6.15.1 Selecting print layout

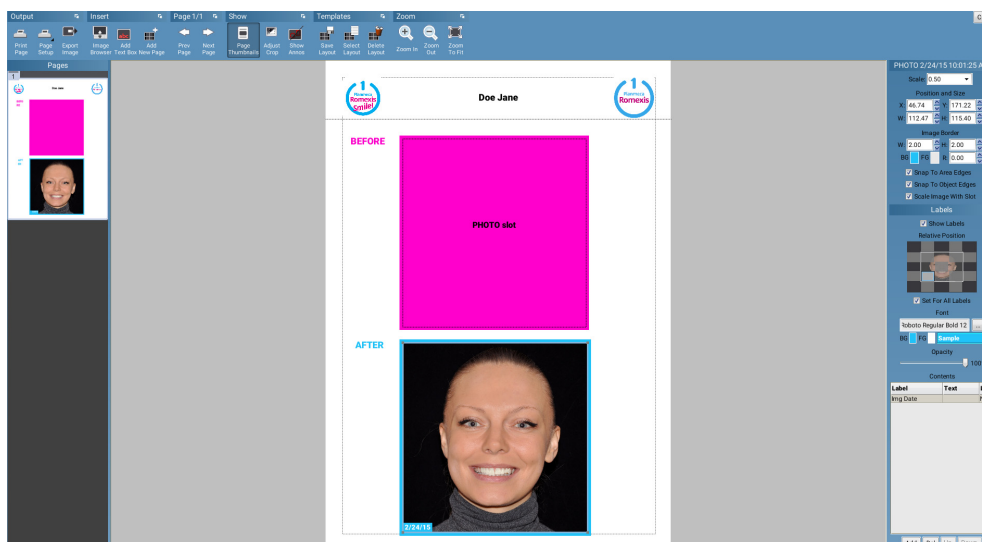


To select the print layout click the **Select layout** button.

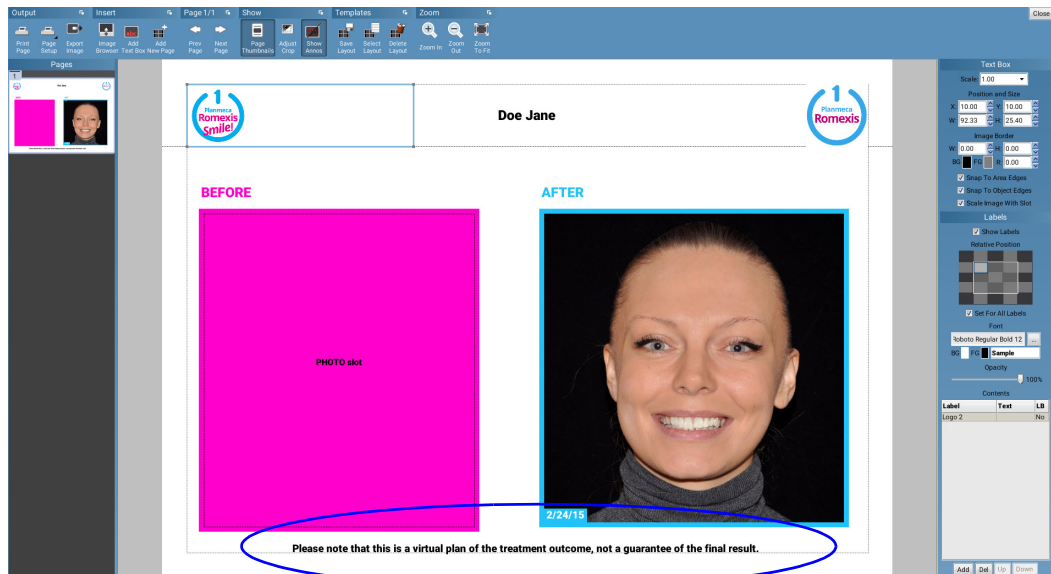
Select from three different ready-made print layouts:



- Before After - portrait



- Before After - landscape with or without text

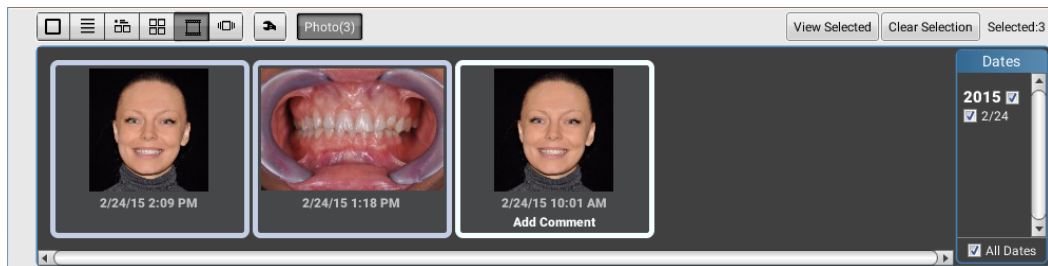


- Default

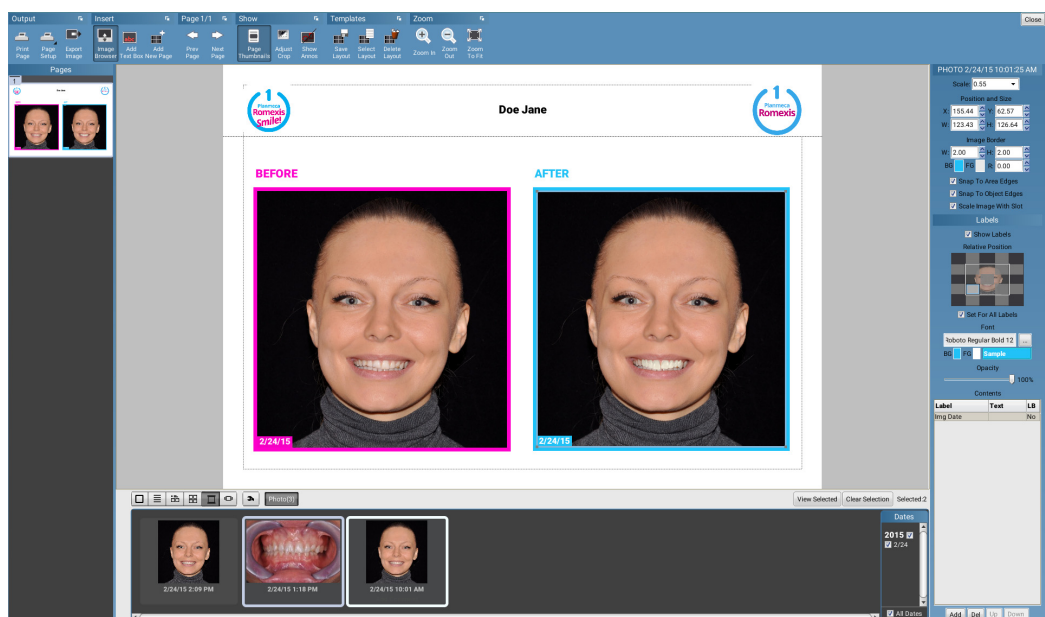


### Adding the before image to the layout

1. Open the image browser by clicking this icon on the top toolbar.
2. Double-click the image you want to add to the layout in the image browser.



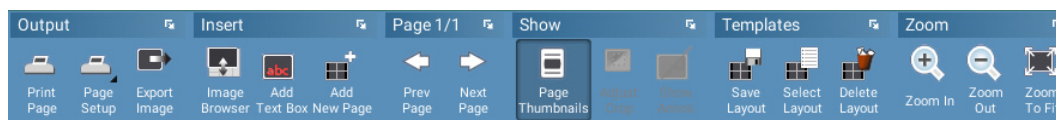
The original image is added to the *Before* slot.





## 6.15.2 Using Print Editor tools

The toolbar on top consists of tools for printing and viewing of print layouts.



1. To start page setup click this button.
2. In the following window you can
  - Browse for logos to be added to the printout
  - Hide or show the header and footer, set them editable and define their height
  - Define the page margins
  - Set the page orientation, size, and define the custom width and height of the pages.

 A screenshot of the 'Page Setup' dialog box. It has several sections:
 

- Updating Print Logo Files:** Three text boxes labeled 'Logo 1', 'Logo 2', and 'Logo 3', each with a 'Browse...' button.
- Header:** Checkboxes for 'Visible' (checked) and 'Editable', a 'Height (mm)' field set to 25.40, and a 'Reset' button.
- Footer:** Checkboxes for 'Visible' and 'Editable', a 'Height (mm)' field set to 25.40, and a 'Reset' button.
- Margins:** Four text boxes for 'Top Margin (mm)', 'Bottom Margin (mm)', 'Left Margin (mm)', and 'Right Margin (mm)', all set to 10.00.
- Page Size:** A dropdown for 'Orientation' set to 'Landscape', a dropdown for 'Page Size' set to 'A4', and two text boxes for 'Custom Page Width (mm)' (210.00) and 'Custom Page Height (mm)' (297.00).

 At the bottom are 'OK' and 'Cancel' buttons.


After defining print settings in *Page Setup* window click this button to start the printing. The layout can be exported as a regular image to the hard disk as follows:



1. Click this button.
2. Select screen resolution, image format, print resolution and export folder and enter file name.
3. Click **OK**.

 A screenshot of the 'Export' dialog box. It has the following elements:
 

- Choose Export Resolution:** Two radio buttons: 'Screen Resolution (120 DPI)' (selected) and 'Print Resolution (300 DPI)'.
- Image Format:** A dropdown menu currently showing 'jpeg'.
- Folder:** A text box with a browse button (three dots).
- Filename:** A text box.

 At the bottom are 'OK' and 'Cancel' buttons, with the 'OK' button circled in blue.



To add images into the layout click this button and double-click the desired image in the browser.



Click this button and point with the mouse where you want to add the text. Type the text to the opening window and click *OK*.

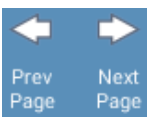
To edit the text later select the text with the *Select annotations* button (see below) and then double-click the text. Edit the text and click *OK*.

- *Add Free Text Box to Layout*– Add freely editable text box.



To add new pages to the layout click this button and add

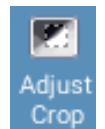
- an empty page with no predefined image slots
- a copy of the current page and its predefined image slots e.g. to create multiples pages with same layout.



Move to previous or next page in a multi-page layout.



Show/hide page thumbnails



To crop images in the printout, select the desired image and click **Adjust crop** tool. Draw the crop region with mouse and apply crop from the right-click menu. To cancel cropping right-click the image and select *Reset crop region*.



Show / hide annotations from the print out by clicking this button.



The layouts can be saved for future use as *Named* or *Default* template.

The default layout will open every time the Print editor is opened whereas the named layout can be restored from the layout list. The image is inserted into an template slot for the respective image type if existing in the layout.



A saved layout can be opened by clicking this button and selecting the layout from the list. To add images into template double-click the images from image browser.



Click this button and select the layout to be deleted from the list.



The print layout can be zoomed in and out by using the **Zoom In** and **Zoom Out** buttons.



To fit the image to the view to view click this button.



### 6.15.3 Adjusting images on the layout

The vertical toolbar can be used to adjust the size, position and labels of the images. As the adjustments in the vertical tool bar are image specific it only shows when an image is selected.

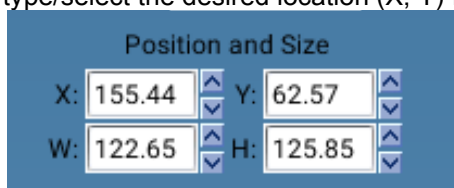
#### Scale

To scale the image select the appropriate scale value from the drop-down menu.



#### Position and size

To change the position of an image on the layout drag the image to a suitable position or type/select the desired location (X, Y) from the *Position and Size* menus.



#### Image border

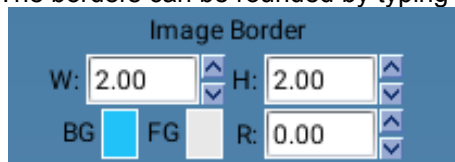
Borders can be added to each image in the print layout.

To change the border size type or select the desired width (W) and height (H).

To change the border fill colour click **BG** and select the desired colour.

To change the border edge colour click the **FG** field.

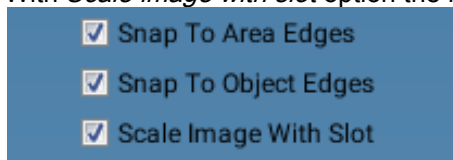
The borders can be rounded by typing / selecting the desired radius (R).



#### Moving images in the layout

By selecting *Snap to area / or object edges* the image is attached to its nearest edges on the print area.

With *Scale image with slot* option the new image is automatically scaled with the slot.



#### Labels

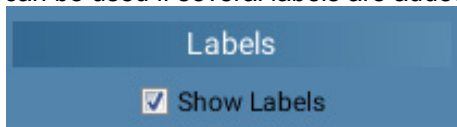
The labels can be hidden by deselecting the *Show Labels* option.

Image labels can be added, edited and deleted from the *Contents* table.

To add a button to a new label row click the **Add** button and select the label type from the drop-down menu.

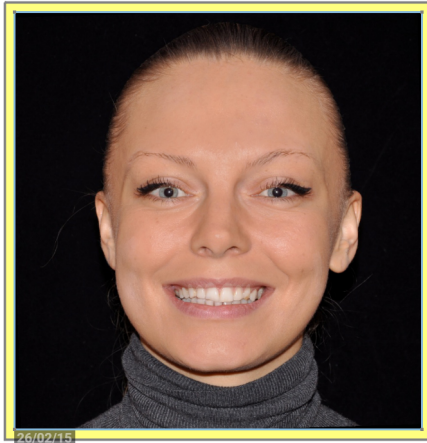
The text field includes text that is added to the layout after the image property data of the selected label. I.e the text field of the label *Img Exp mA* adds the string "mA" after the image exposure mA, e.g. "10 mA".

To add a line brake after the label row click the *LB* field on the label row. The line brakes can be used if several labels are added to the same area on the layout.



To delete a row select it and click **Del**.

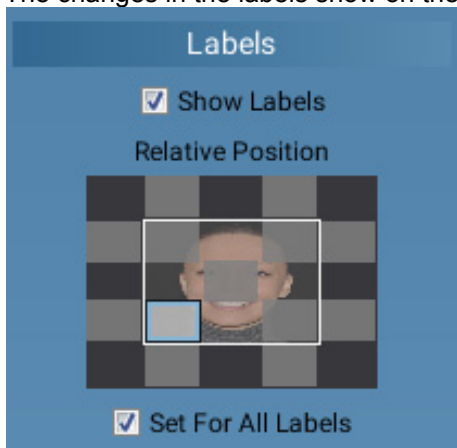
To move a row up and down in the table select the row and click **Up** or **Down**.



When the label is selected from the *Contents* table, its opacity, background (BG) and foreground colour (FG), text font and relative position in the layout can be defined.

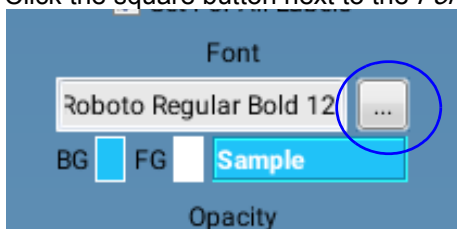
To select the relative position in the layout click on the grey fields of the layout preview.

The changes in the labels show on the print editor layout.

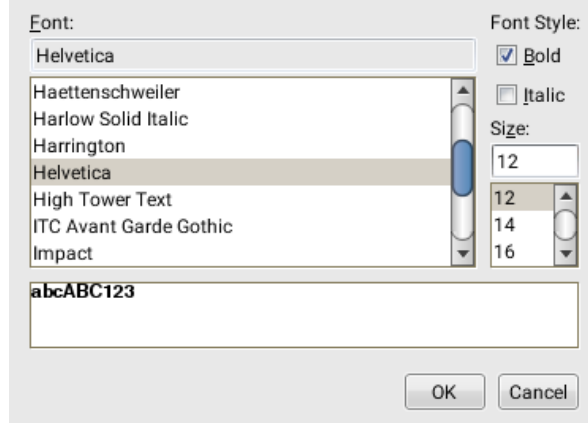


## Editing font

Click the square button next to the *Font* field.



Select the suitable font, font style and size and click **OK**.



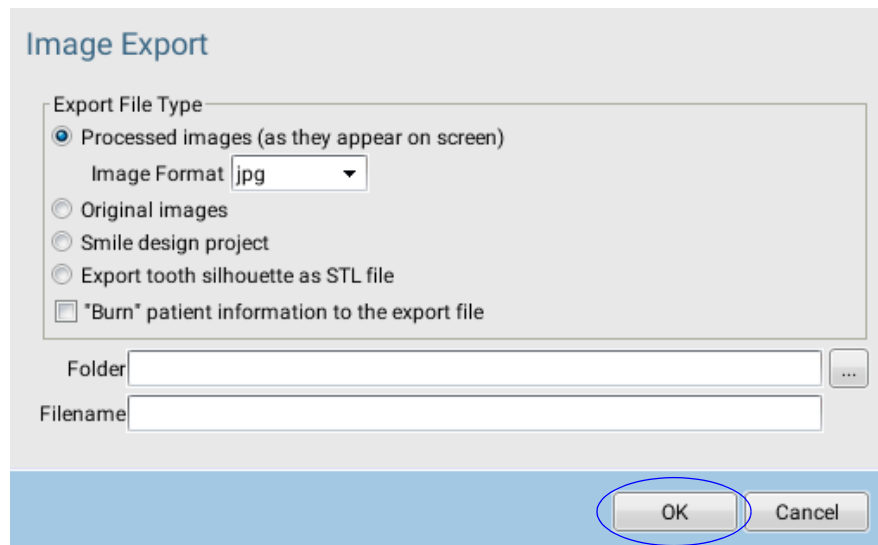
## 6.16 Exporting smile designs

### 6.16.1 Image export

1. Click the **Image export** button in the lower left corner of the screen.



2. Select from the export options described in detail in the following and click **OK**.



### Export options

#### Export file type

- Processed images  
Export image(s) in 8 bit with all enhancements applied.  
Select the appropriate image format from the drop-down menu.
- Original images  
Export original image(s) (8 or 16 bits, depending on the original capturing mode).
- Smile design project  
Export smile and retractor images with teeth design

A zip-file, which can be imported to other Planmeca Romexis Smile Design workstation, will be created.

- Export tooth silhouette as STL file
- “Burn” patient information to the export file.  
Attach the image information directly on the exported image.

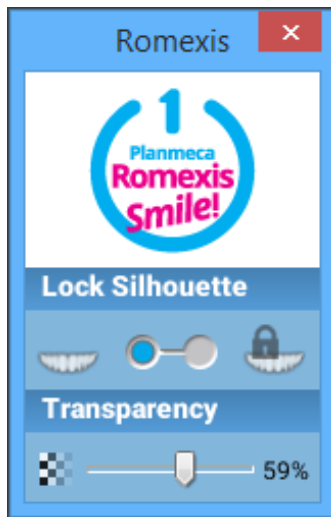
### 6.16.2 CAD/CAM export

To export the designed teeth design and overlay on top of any software click the **CAD/CAM Export** button.



The opening dialogue contains the following tools:

- A button for locking the design so that it cannot be scaled, translated, rotated or edited
- A transparency slider for adjusting transparency of the design



To close the design control dialogue click the red close button on the top right corner of the window.

### 6.16.3 Cloud export



Planmeca Romexis Cloud is a subscription based service integrated into Planmeca Romexis that can be used to transfer images and documents from Planmeca Romexis users to others. All transfers between accounts are encrypted so the users cannot see the cases of other users.

To use the cloud export, user account is required.

For more information visit: <http://online.planmeca.com>.

#### NOTE

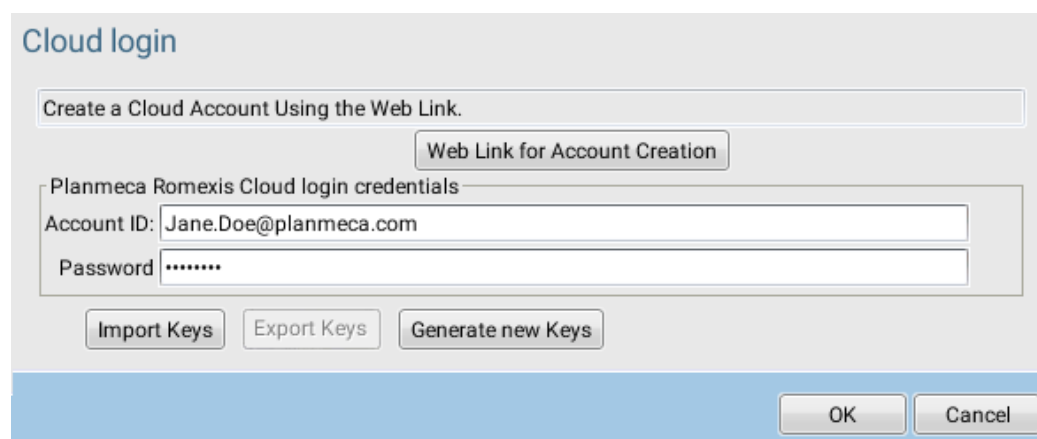
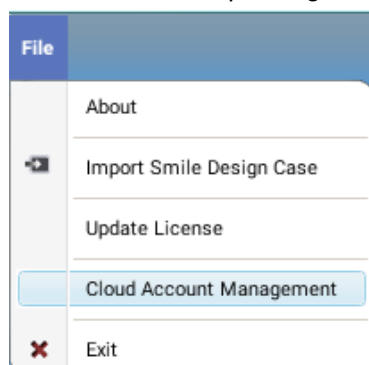
**Planmeca Romexis Cloud is not an image storage or archival service.**

With Cloud Export image(s) and documents can be sent to a recipient who may or may not have Planmeca Romexis installed.

## Setting up a Cloud account

When starting to use Cloud export for the first time the following account setup dialogue appears.

To access the setup dialogue later select **Cloud account management** from the *File* menu.



## Sending smile designs using Planmeca Romexis Cloud service

Sending cases requires an active Planmeca Romexis Cloud subscription or a recipient who accepts reverse charges to this subscription.

1. Open the design you want to send.

To send a document from the patient's attachments click on the button while no images are open.

2. Click this button.



- Enter the recipient's e-mail address in the *Send to* field or click **Select contact** to select recipient from *My Contacts*.

When sending a case to a new recipient, the recipient's contact information will be automatically saved to *My Contacts* list under *Contacts* tab.

- Select from the following sending options:

- *Send images as shown on screen* - with this option selected a single image in PNG format as shown on screen is sent
  - *Send image(s) with smile design project...* - with this option selected the entire project with images is as a zip file.
- In the *Case description* field enter the any case related information, such as a referral message or indication of urgency, for the user to see before download.

The *Package size estimate* field shows the amount of data to be sent and counted towards your subscription quota.

- When finished click the **Send** button.

The case will be uploaded to the cloud for the recipient for later download. An automatic e-mail will be sent to the recipient when there is a new case available for download.

The case being uploaded in the background you can continue working in Planmeca Romexis. You can check the status of the transfer and open the uploaded cases in the *Additional* tab.

## Deleting sent cases

Select the case on the list under the *Additional* tab and click **Delete**.

Patient Name	Status	Receiver	Creation Date	Creation Time	Download
Doe John	Uploaded		28.2.2013	11:47	
Fracture Left Molar	Downloaded		6.2.2013	15:27	6.2.2013
Korhonen Eira	Uploaded		19.2.2013	16:16	

## Reverse charge send option

If the recipient has accepted reverse charges sending option in Planmeca Online account settings, the **Reverse charge send** button becomes active and the case to be sent is automatically counted towards the recipient's transfer quota instead of the sender's.

This option can be enabled on the Planmeca Online My Account management page at <http://online.planmeca.com/> by checking the *Accept reverse charges...* option.

## Account Details

Publish this account in contact listings and searches

Accept reverse charges to this account's quota

**BACK** **CONTINUE**

## Viewing additional information

Click the *Additional* tab

**New Case** **Additional** **Contacts**

**User Account**

User  Account usage

**Case History**

Patient Name	Status	Receiver	Creation Date	Download Date	File Size (KB)	Notes

### User account

The Planmeca Online account attached to the currently logged in Planmeca Romexis user. The used and total quota are also shown.

### Case history

A list of cases sent using the Planmeca Online account shown under User Account above.

- Patient name
- Status

The current status of the case (being uploaded, waiting for download or downloaded by the recipient).

- Receiver  
Who was the case referred to.
- Notes  
The case description entered while sending.

## Searching Planmeca Online users

1. Click the *Contacts* tab.

The screenshot shows the 'Contacts' tab in the Planmeca Online interface. It features a search section with the following fields: Name (containing 'John'), Surname (containing 'Doe'), Email, Company, and City. A 'Search' button is located to the right of the City field. Below the search fields is a table with the following columns: Name, Email, Company, City, and Accept reverse charged. An 'Add to My Contacts' button is positioned at the bottom right of this section. The 'My Contacts' section below it has a similar table structure and a 'Remove Contact' button at the bottom right.

For the users to be visible in searches for other Planmeca Online users they must publish their account by browsing to Planmeca Online My Account page at <http://online.planmeca.com/> and check this option.

## Account Details

The screenshot shows the 'Account Details' page. A checkbox labeled 'Publish this account in contact listings and searches' is checked and circled in blue. Below it is another checkbox labeled 'Accept reverse charges to this account's quota' which is unchecked. At the bottom are 'BACK' and 'CONTINUE' buttons.

2. Enter the search criteria in the *Search Contacts* field and click **Search**.

Add to My Contacts

3. Add the returned contact(s) to your contacts by clicking this button.

The added contact(s) will now show in the *My Contacts* field.

After sending a case to a new recipient the recipient will be automatically added to *My Contacts* list.

The contacts are tied to the Planmeca Online user account shown under *Additional* tab > *User Account*. If multiple Planmeca Romexis users are using the same account, they will share the account's *My Contacts* list.



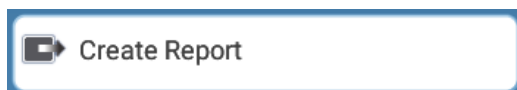
## 6.16.4 Creating and saving Smile Design reports

This section describes how to create a standard smile design case report in PDF format.

### NOTE

To create custom reports see section 6.15 "Printing smile design images" on page 34.

1. Click the **Create report** button.



2. Type the case information in the fields of the dialogue box.
3. Click the **Browse** button.

**Create Smile Design Report**

Clinic	Patient
Name: Smile Clinic	Name: Ana Smile
Clinic Email: smile@clinic.com	ID: 546547
Contact Name: Dr. Smile	Age: 31
	Gender: Female

Comments

type here any comments

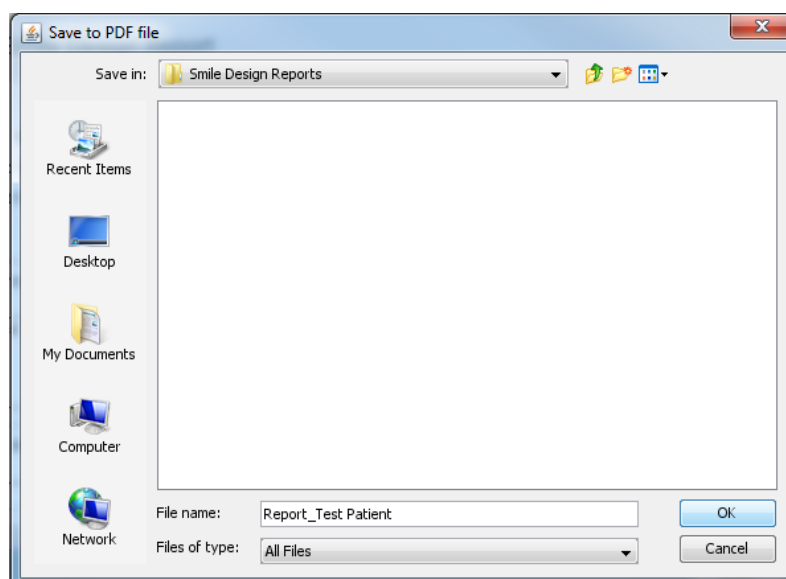
Save Smile Design Report to file

Browse

Save Cancel

4. Select the appropriate destination folder and enter the name for the new report file in the *File name* field.

Click **OK**.



5. Click **Save**.

The report is saved in the selected folder and will automatically open.

## Smile Design Report

26.11.2015 15:34



### PATIENT

Name Ana Smile  
 ID 546547  
 Age 31  
 Gender F

### CLINIC

Name Smile Clinic  
 Contact Name Dr. Smile  
 Clinic Email smile@clinic.com

### COMMENTS

type here any comments

### BEFORE AND AFTER IMAGES



### TOOTH MEASUREMENTS

Tooth No.FDI	Length	Width	Ratio Width/Height	Shade
13	10,30 mm	5,81 mm	56 %	Picked Color
12	9,63 mm	5,66 mm	58 %	Picked Color
11	11,06 mm	8,09 mm	73 %	Picked Color
21	11,06 mm	8,09 mm	73 %	Picked Color
22	9,63 mm	5,66 mm	58 %	Picked Color
23	11,06 mm	5,89 mm	53 %	Picked Color



# PLANMECA

Planmeca Oy | Asentajankatu 6 | 00880 Helsinki | Finland  
tel. +358 20 7795 500 | fax +358 20 7795 555 | sales@planmeca.com | www.planmeca.com

