



VisiQuick Manual - EN

4.6 - rev. 3.0

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Introduction

You are now working with **VisiQuick**, dental imaging software for dentists, or other dental, orthodontic or medical specialists.

This manual will help you with the most frequently used functions.

For additional support, see the technical documentation, available from the help menu.

Safety first

First read our [safety information](#).

Definitions

Note: Important message to ensure efficient use of **VisiQuick**.

Warning: Important safety message.



Tip: Useful tip for working with **VisiQuick**.

Intended use

The intended use of **VisiQuick** is for receiving, storing, displaying and manipulating digital dental images. Intended use in the dental industry would include the following:

- Receiving and handling of digital radiographs and colour images.
- Viewing and manipulating for diagnostic assessment, including measurements based on the radiographs.
- Viewing for patient education and consultation including cosmetic imaging.
- Electronic transmission of images for consultation.

Intended user and intended patient group

The intended users of **VisiQuick** are trained dental professionals, such as dentists, implantologists, orthodontists, periodontologists, as well as dental lab personnel. For installation and maintenance, ICT professionals are intended users.

The intended patient group are all patients that are treated by the dental professional.

Product information

Product **VisiQuick V4.6**

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VisiQuick is a medical device, regulated by Medical Device Directive 93/42/EEC.



Manufacturer:
Citodent Imaging B.V.
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Read this manual before use.

Select and close patient

Always select the patient via the link of your practice management system.



Click  or key [Escape] if you want to return to the practice management system from **VisiQuick**. This function also deselects the patient.


Warning: When you activate **VisiQuick** using the taskbar it is not guaranteed that the correct patient is selected.




View and edit X-rays

After selecting a patient, the last opened images are displayed.

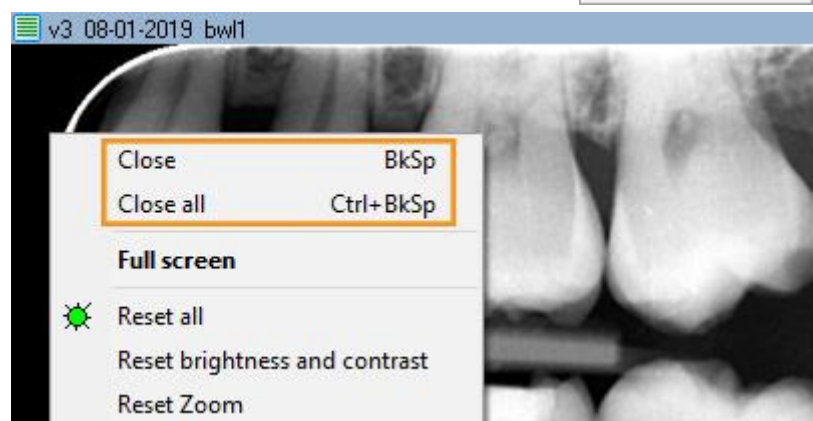
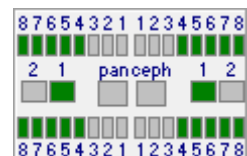
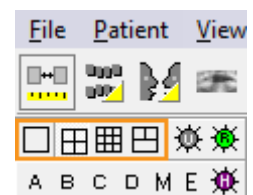
View images

The screen can be divided into boxes with  or by pressing [Ctrl + 1], [Ctrl + 2], [Ctrl + 3], [Ctrl + 4], after which selected thumbnail images will automatically be opened in the first free box.

With , or by pressing [Alt + Space], the most recent bitewings will be opened automatically.

At the bottom left is a small status panel in which some or all images of an element code or recording type can be opened by clicking with the left mouse button on a code or type.

To close an image, press [Backspace], or right-click the image and click [Close].

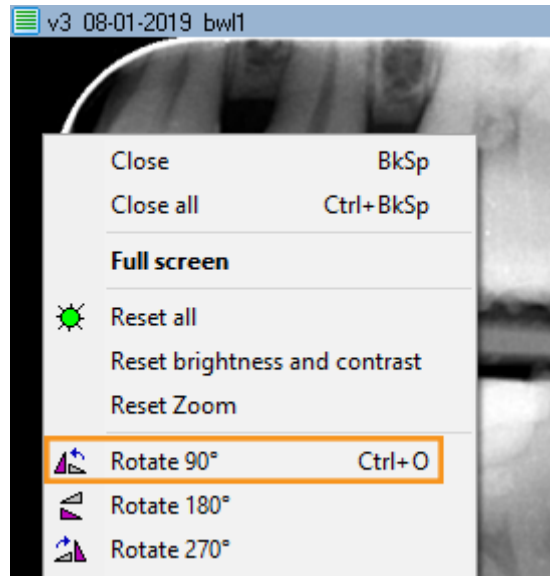



You can display a photo full

screen by double-clicking the photo. You close the full screen view by clicking or by pressing [Escape].


Edit images


You rotate an image by pressing [Ctrl + O], or by right-clicking on the photo and choosing [Rotate].



With the  icon activated, you can adjust contrast and brightness by sliding the left mouse button over the photo.




By holding down [Ctrl] you can adjust density (gamma correction) by sliding the left mouse button over the photo ( is not necessary).

By holding [Shift] you can adjust contrast and brightness by sliding the left mouse button over the photo ( is not necessary).

The structure in a photo can be sharpened in varying degrees with

A B C D M E



You reset an image to its original appearance by clicking  or by pressing [Ctrl + Space].



Organize images

VisiQuick has different views. The compare view is most commonly used for side-by-side images and for editing and measuring.

The other views are specific to common use.

To switch between views, click

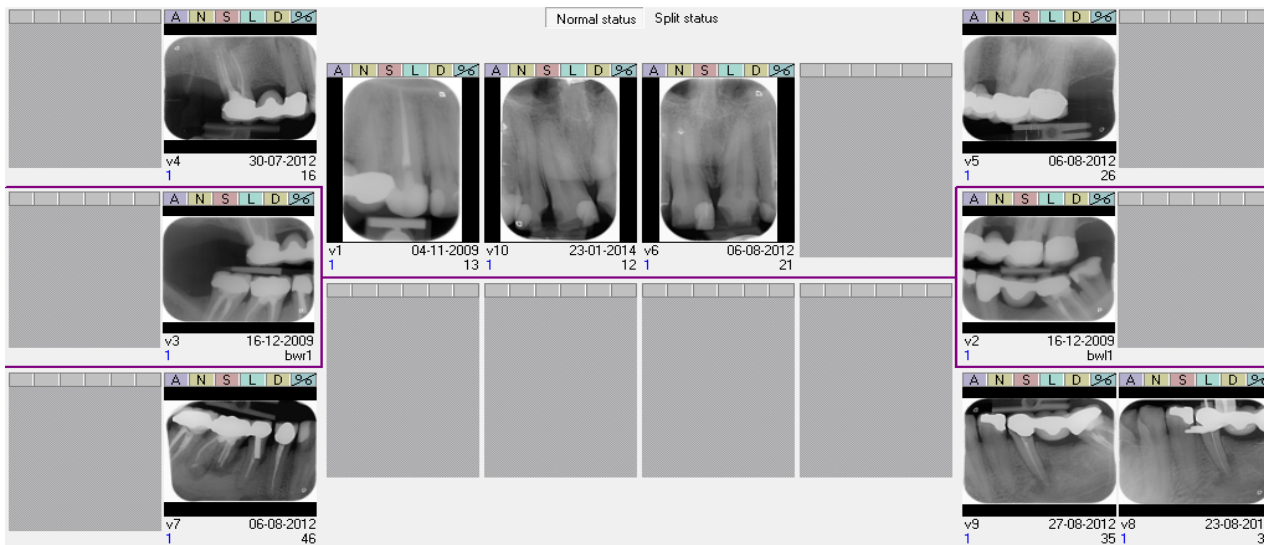


or key [Alt-1 to Alt-8].

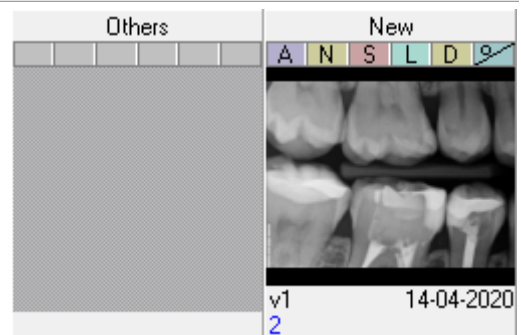


If there are images in a view, it is indicated by a yellow triangle.


Tooth position codes can be easily set in the X-ray status and color image status view; drag an image to the correct box; the code is set automatically.



Images without tooth position codes are on the bottom right.

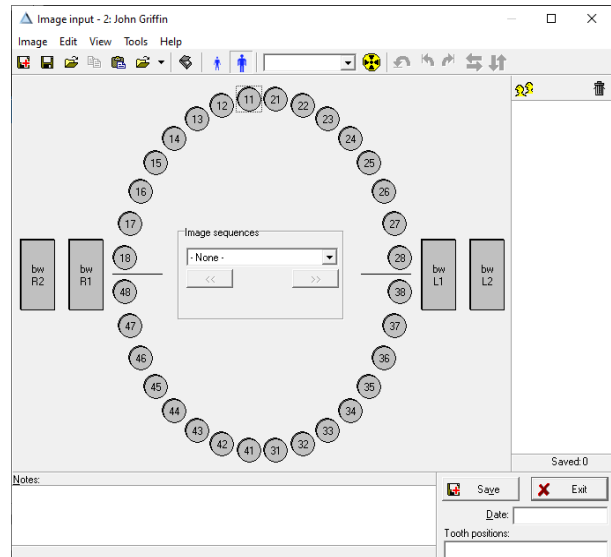



New X-rays

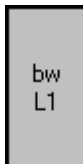
Click  to control an X-ray machine to take one or more new X-rays.



The Input window opens.



In the window, click a tooth position  or

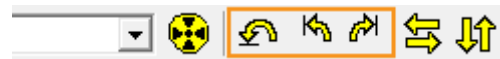


recording type for direct recording. For a phosphor scanner, click .

After reading in the image(s) you assign it to an tooth position or recording type (if necessary) and you can rotate it (if necessary).

You assign an image to a tooth position by dragging the photo to the icon of the position, or by clicking the icon before the image is read. You then enter notes (if necessary) and click [Save]. The image is saved and is no longer displayed.

Repeat these steps for the next image(s). Close the Input window when you are done.



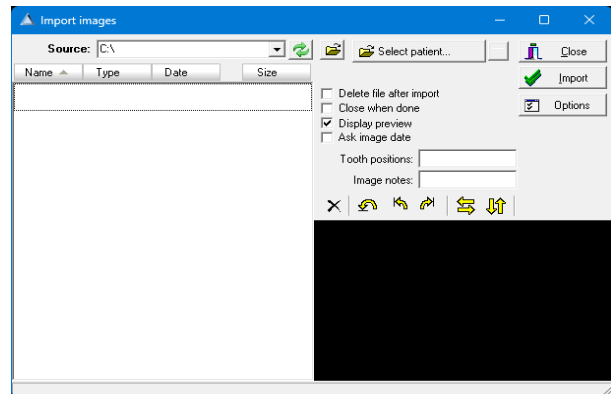
Warning: Calibration


If a warning about the lack of calibration is shown, subsequent measurements may show incorrect values.




Import image

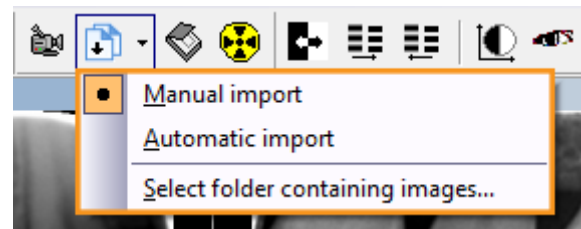
Click on the [Image / Import] menu or press [Ctrl + M] to open the Import images window.




Set the source folder with  if it is not already set.

All available images are imported by clicking [Import]; if necessary with automatic deletion.


Optionally, you can also have images automatically imported by setting . Then you can import and delete with a click, or even without a click.

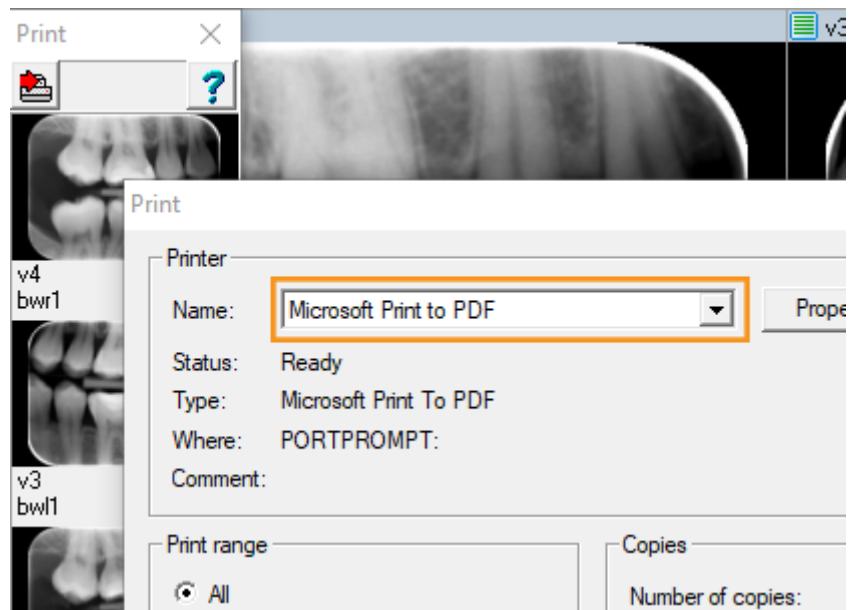


Export image as PDF

If your computer has a PDF printer (Windows 10 or higher), you can easily export one or more images to a PDF file. You drag the first image to the print button , and additional images to the print window now shown.



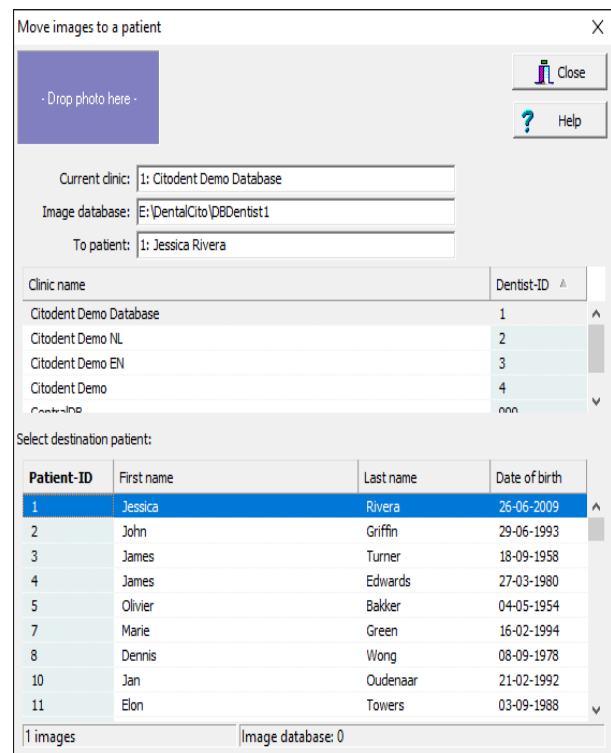
When the correct images have been collected, click  and select the PDF Printer from the list.




Move image

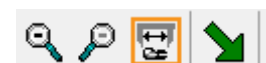
If you want to move an image to another patient, click the [Tools / Move images to a patient] menu; this will open the move dialog:

In this dialog you first select the patient to which the photo (s) should be moved. To do this, you can scroll through the list or enter the first letters of the last name to search. When the correct patient has been selected, you can drag one (or more) photos to the [purple box]; thus it is moved.



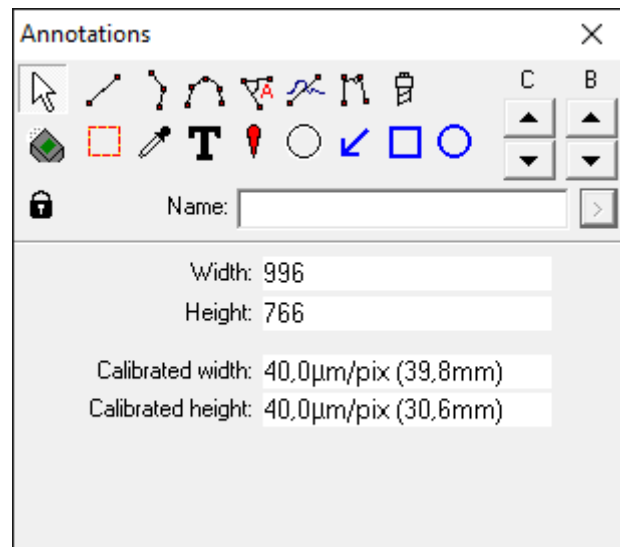
Annotations

Open and close the Annotations dialog by clicking  or by pressing [m].

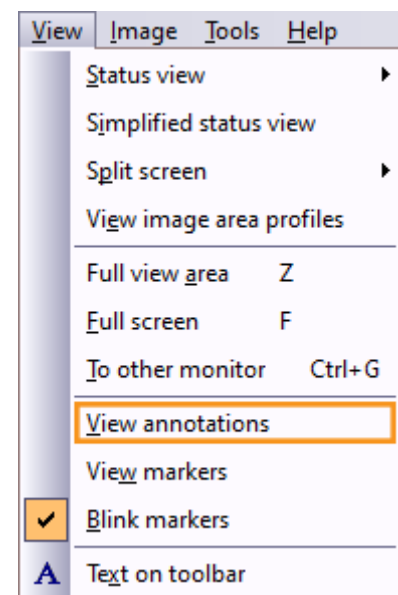


In the Annotations dialog you can, among other things, place texts on the photo, measure endo file lengths or draw figures.

Tip: By holding down the "Ctrl" key you can enter multiple annotations in succession.



In the [View / View annotations] menu you can set whether annotations are always visible, or only when the Annotations window is open (default).



Calibration

All length and angle estimations are dependent on correct image calibration. The procedure to verify and correct image calibration is different between existing images and new images.

Warning: Calibration

If a warning about the lack of calibration is shown, subsequent measurements may show incorrect values.



Calibrating new images

New images are calibrated by configuring the acquisition window. First the calibration of the acquisition system is verified and, if needed, corrected.

Verifying calibration

The calibration only needs to be verified once, after major changes, such as new installation or updating device drivers. When calibration is verified, new images will be correct. The procedure describes calibrating a PAN but is also valid for CEPH.

Requirements

Newly acquired image with a visible object having a known size. For instance a Panoramic X-ray having a 6 mm bullet visible, or a Cephalometric X-ray with a scale visible.

Procedure

1. Open the Acquisition window and acquire a new Panoramic X-ray with an object visible, and save it.
2. Select the saved image and open the Annotations window.
3. Click on the Length Estimation tool and draw a line along the length of the visible object.
4. Compare the displayed length with the actual object length.
5. The calibration is verified when the comparison indicates an acceptable difference.

Acceptable difference

The structure being measured determines the required accuracy. If this is unknown, less than 5% difference is normally acceptable.

Correcting the calibration

If the verification fails, the acquisition system must be recalibrated.

Procedure

1. Open the image created above having the measurement.
2. Open the Acquisition window and open the Properties of the PAN button (or CEPH button).
3. Click on the Correction button and enter the object length in the Known length field and press enter.

Note: *The image used for verification of the calibration is not calibrated yet. To do so, read [Calibrating an existing image](#).*

Calibrating an existing image

If it is estimated that the calibration of an existing image is incorrect, it needs to be corrected. In order to recalibrate an existing image calibration data is required.

Requirements

Either an object with a known length is visible in the image,
Or the calibration information of an image from the same device can be used.

Procedure, when a known length is available

1. Select the image and open the *Annotations* window.
2. Click on the Length Estimation tool and draw a line along the length of the visible object.
3. Click on the Calibrate button and enter the length of the known object in the Real length field and press enter.

4. The image is now recalibrated and all its measurements are recalculated.

Procedure, when calibration from another image is used

1. Select the image which is correctly calibrated and open the *Image properties* window.
2. Open the Image tab and select and copy the Pixel width value (the Pixel height is usually the same).
3. Select the image that you want to calibrate and open the *Image properties* window.
4. Open the Image tab and paste in the Pixel width and height fields and press enter.
5. The image is now recalibrated and all its measurements are recalculated.

Tips and useful information

Tip: If you cannot find a photo, it may be that it has been stored with the wrong patient. Once it has been found, you can [automatically move the photo](#) to the correct patient.

Safety information

These warnings must be read for normal and safe working with **VisiQuick**:

Warning: Incorrect patient



Always select the patient via the practice management program to prevent a new image from being saved with the wrong patient.

Before acquiring a new image, always ensure that the displayed patient name is correct. The patient is normally displayed in the window's caption of the acquisition window.

Do not activate **VisiQuick** using the taskbar, because then you cannot guarantee that the correct patient is selected.

Warning: Measurements



Always verify the calibration of the acquisition system before use because measurements results are dependent on image calibration.

Warning: Unintentionally deleting data



If a photo is accidentally deleted, it can be recovered from the computer on which it was taken using the "Load backup images" function. Photos older than a month cannot be recovered like this.

Older images can only be reloaded if a full data backup is available.

Warning: Unnecessary exposure of X-rays



Should the database server be unreachable during image acquisition, the acquired image can be reloaded using the Load backup images function, after the database connectivity has been restored.

Warning: Low quality monitor

Only use high quality monitors, for the best X-ray diagnosis, as stated in the system requirements.



Warning: Incorrect computer time

VisiQuick uses the system time on your computer for setting the date and time of a new image. An incorrect computer time will cause the new images to be ordered incorrectly. Always verify the computer time before using the system.



Warning: Data backup

To prevent data loss, always have a working backup system. Verify that "Previous Versions" is enabled on the database server.

