

CS Imaging

Version 7

Quick User Guide

Notice

This Quick User Guide contains information on what you need to get started with CS Imaging Version 7 as quickly as possible. It also provides a workflow to get you started once your software is up and running. For more details on any of the topics covered in this guide, see the online help.

CS Imaging Version 7 is intended to be used with Carestream's dental digital imaging systems by healthcare professionals to display, adjust, measure, print and store 2D digital images of the dento-maxillofacial region of the human anatomy to support image diagnosis.

The software also allows users to create patient records, to enhance images (for example, by zooming, cropping or adjusting sharpness) and to export 2D digital images.

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This document is originally written in English.

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CS Imaging Version 7 complies with Directive 93/42/EEC relating to medical equipment.



0086

Minimum Computer System Requirements

Item	Requirement
CPU	2.4 GHz Intel Duo Core or equivalent.
RAM	4 GB recommended, 2GB minimum.
Graphics card	512 MB video RAM.
Hard Disk	<ul style="list-style-type: none">• 1.2 GB for software installation• 40 GB free space to use the software.
Display	1024 x 768 minimum screen resolution - 32 bit color mode.
Operating system	<ul style="list-style-type: none">• Windows 7 32 bit or 64 bit• Windows 8 64 bit• Windows 8.1 64 bit• Windows10 64 bit.
CD/DVD	<ul style="list-style-type: none">• DVD-ROM drive to install the product• CD burner is also required.

See your computer documentation for details of your current hardware and display specifications.

To obtain maximum image quality and visual comfort, position the screen to avoid direct light reflections from internal or external lighting.

Always use Microsoft Windows Update to make sure that the latest security patches are correctly installed on your computer.




Note: CS Imaging Version 7 is not compatible with Windows 8 or 8.1 touch screen.

CS Imaging Version 7 Overview

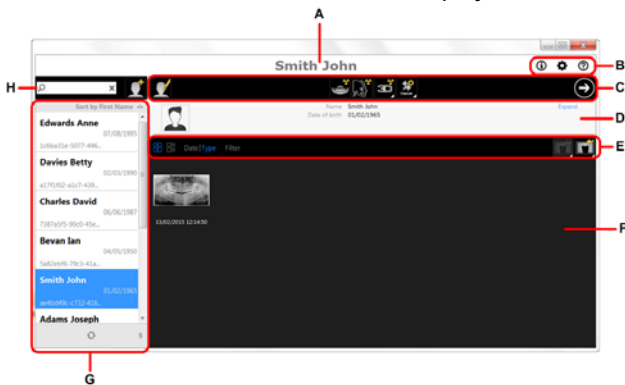
CS Imaging Version 7 was developed specifically to support image diagnosis. It is the common imaging platform for all our digital systems for dentistry.



Opening the CS Imaging Version 7 Software

To open the Imaging application, follow these steps:

- 1 On your desktop, double-click 

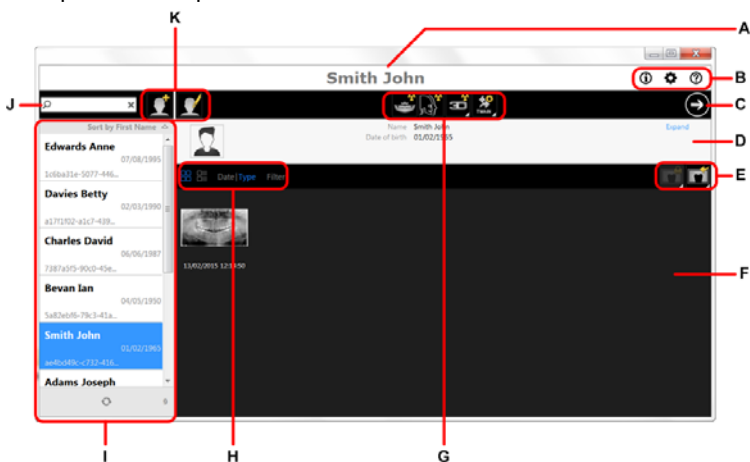
The Patient Browser window is displayed:



- 2 In the Patient Browser search field (**H**), start typing to search for a patient card.
OR click  alongside the search field to create a new patient card.
- 3 Once you have selected or created a patient card, in the Patient Browser toolbar (**C**) click  to open the Imaging application. The Patient Browser window remains open and the Imaging Window is displayed.

Patient Browser Window Overview

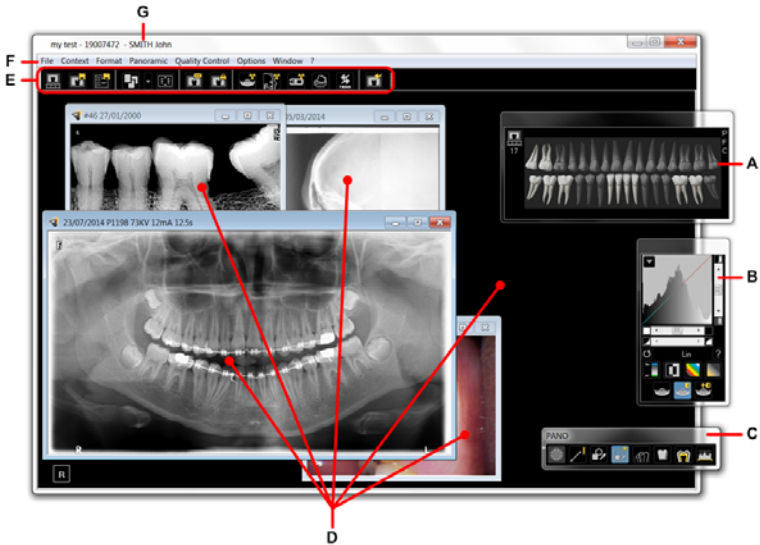
The Patient Browser window is the first window that appears when you launch CS Imaging Version 7 in stand-alone mode. This provides all patient card functions.




- A Title bar:** name of selected patient.
- B System icons:** About, Preferences and Online Help.
- C Imaging Software Button:** click to open the Imaging Window.
- D Patient Card:** information on the selected patient.
- E Image Management Tools:** contains import/export and print functions.
- F Patient History:** Displays thumbnails of acquired images and objects for the selected patient.
- G Acquisition Tools:** contains acquisition buttons for available acquisition devices.
- H Patient History Tools:** contains Patient History functions.
- I Patient List:** Displays the list of available patients
- J Patient Search:** Allows you to search the patient list.
- K Patient Management Tools:** contains create/modify patient functions.

Imaging Window Overview

The Imaging Window provides access to all imaging functions.



A Dental Arch filter: Filters Patient History as follows:

- Click **P**, **F** or **C** to display panoramic, FMS or cephalometric Patient History.
- Click  to open the Patient History window.
- Click on a tooth to filter by tooth number.
As you move your mouse pointer over the teeth in the Dental Arch filter, tooth numbers are displayed below the Patient History button:



B Control panel: specialized control panel for the selected image.

C Contextual toolbar: specialized toolbar for the selected image.

D Image windows: images are displayed in separate windows.

E Main toolbar: main Imaging Window functions.

F Menu bar: main Imaging Window functions.

G Title bar: displays software, practitioner and patient details.

Using the Toolbars

The Imaging window contains two different types of toolbars:

- **Main Toolbar.**
This is permanently displayed below the menu bar in the Imaging Window. This toolbar contains buttons that provide access to the main Imaging Window functions.
- **Contextual Toolbar.**
This is a dockable or floating toolbar that changes according to the type of image you have clicked on in the Imaging Window.
For example if you have clicked on a panoramic image (as shown on [page 4](#)), this toolbar contains buttons relevant to panoramic images.




Tip: Move your mouse pointer over a toolbar button to display a tooltip (short description).

For more information see the CS Imaging Version 7 online help.

Creating a Patient Card

You must create a patient card before you can start acquiring images.

To create a patient card, follow these steps:

- 1 In the **Patient Browser** toolbar (see [page 3](#)), click . The **Patient Card** window is displayed.




- 2 Enter patient information in the **Patient Card** window.



Note: **First Name**, **Last Name** and **Gender** are mandatory. All other fields are optional. Grayed out fields are not editable.

- 3 Click **OK** to save the **Patient Card**.
The **Patient Card** window closes, and the new patient appears in the patient list.

Once you have created a new patient card, you can either use the acquisition buttons in the Patient Browser toolbar (see [page 3](#)) to start acquiring images, or click  to open the Imaging Window.

You can also open the Imaging Window by double clicking on a patient in the patient list.



Note: For information on acquiring images, see your X-ray device documentation and the CS Imaging Version 7 online help.

Opening Acquired Images

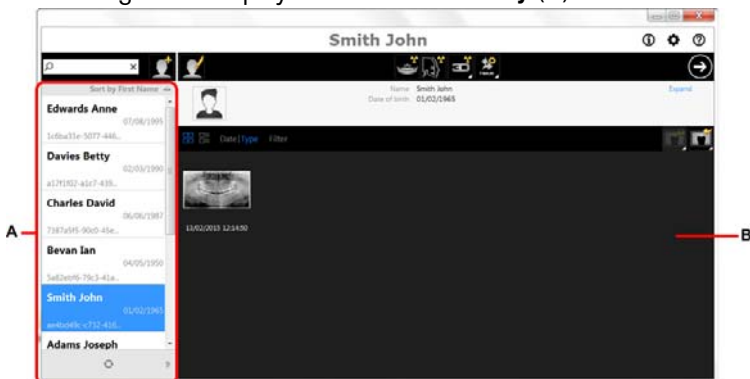


WARNING:

- For image review, take into consideration that patient orientation:
 - is not displayed on cephalometric oblique images and colored images
 - is indicated by tooth number on intraoral images (RVG, camera, CR)
 - must be checked for CR panoramic and cephalometric images, and corrected if necessary.
- When you acquire an image, make sure you have selected the correct patient in the Patient Browser.
- The CS Imaging Version 7 software cannot manage your device's acquisition settings.
- When you launch CS Imaging from CS SoftDent Cloud or CS PracticeWorks Cloud, and the available bandwidth between the Cloud server and the customer premises is poor, the image display may contain some artifacts. The software is an aide to diagnosis only. You must apply your professional training and judgment before deciding a course of treatment.

To open an acquired image, follow these steps:

- 1 In the **Patient Browser** window, click on a patient name (A).
If the selected patient card is linked to images, thumbnails of the images are displayed in **Patient History** (B):



- 2 Double-click on a thumbnail in **Patient History**.
The selected image is displayed in the **Imaging Window**.



Note: If the Patient History panel is empty, check that you have selected the correct patient.

For more information on image adjustment, see the online help.

Using Image Filters

In digital imaging, “filter” typically refers to a predefined set of controls that allow you to quickly change the appearance of an image.

In CS Imaging Version 7, filters are displayed as buttons in the **Control Panel** (see [page 4](#)). The range of available filters depends on image modality and the device used to acquire the image. For certain image types, **CS Adapt** filters and library management software are available.



Note: If a filter has been applied to an image, an **Fi** symbol appears in the top left corner of the image.

The best way to familiarize yourself with filters is:

- 1 open an image
- 2 apply a filter
- 3 note its effect on your image.

For more information, see the CS Imaging Version 7 online help.

Measuring an Image



WARNING:

- All image measurements are indicative only. Measuring and positioning tasks are carried out under your own responsibility.
- For accurate measurements, images must be calibrated using a reference object of known length.
- For Panoramic images, calibration and measurement is reliable only around the reference objects of known length.

Measuring an image means drawing a measuring line on the image to calculate distances between different points.

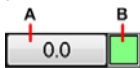
To measure an image, follow these steps:

- 1 Open an image in the **Imaging Window** and then maximize the **Imaging Window**.

- 2 In the **Contextual Toolbar** (see [page 4](#)), click .

The selected image is displayed in the **Measurements** window.

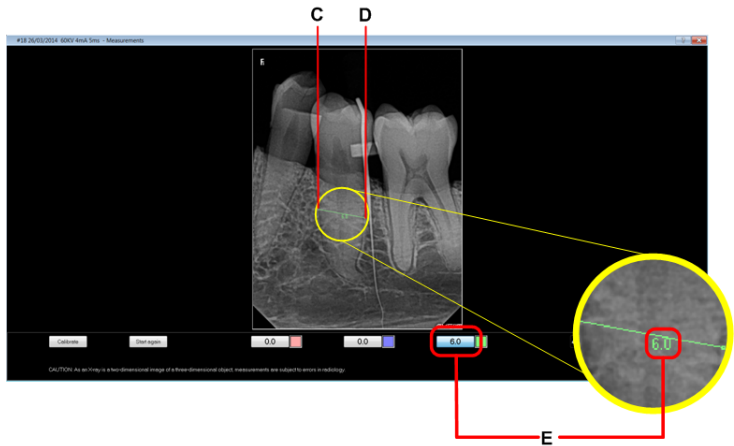
- 3 At the bottom of the **Measurements** window, click a measurement button (**A**) next to the color picker box (**B**) that you want to use.



If you want to select a custom line colour, click the color picker box (**B**).

- 4 In the **Measurements** window, click and hold on the image to set the start point of the measuring line (**C** below).

- 5 Drag the mouse pointer to the end point (**D**) and release the mouse button. A straight line is drawn on the image. The indicative calculated length (see **WARNING** above) of the line relative to the image is shown alongside the line and on the selected measurement button (**E**).



Note: Units of measurement are Standard International (SI) units - millimeters (mm) for length and degrees (°) for angles.

- 6 If you want to set additional points, keep clicking on the image. New segments are drawn between the new points. Segment length is displayed alongside each new section. Total line length is displayed on the button (**A**).

- To undo a segment, click . To re-do, click .
- To delete all lines, click .
- To save all measurement lines, click .
- To delete the current line and start drawing it again, click **Start Again**.

See the online help for details on calibration and measurement.

Printing Images

Before printing your image, make sure you have selected a printer in Print Preferences.


Setting Print Preferences

To set your Print Preferences, follow these steps:

- 1 In the Imaging Window, select **Options > Preferences** in the Menu bar (see [page 4](#)).
The **Preferences** window is displayed.
- 2 In the **Preferences** window, click on the **Print** tab, and select a printer.
- 3 Click **Ok**.

Printing an image

To print an image, follow these steps:

- 1 In the **Imaging Window**, with an image open click .
The **Print preview** window is displayed.
- 2 If the print preview is satisfactory, click **Print**.
Your image is printed.




Warning: Printed image dimensions will vary according to print settings. Do not take measurements from a printed page.

Exporting Images

This section describes the most common method of exporting images from CS Imaging Version 7.


To export images, follow these steps:

- 1 In the Patient History panel, click to select the thumbnails you want to export. Use click and drag or CTRL+click to select multiple thumbnails. Blue frames are displayed around the thumbnails you have selected.
- 2 In the Patient History toolbar, click . The **Export to folder** dialog box is displayed.
- 3 In the **Export to folder** dialog box, click the **Browse** button to select which folder you want to export your image to.
- 4 Click the **Export** button to export the image.



Note: To locate an image file on your computer, right click on the image and select **Localize image**.

Exiting the Imaging Window

To exit the Imaging Window, EITHER click  in the **Main toolbar** OR select **File > Exit**. in the **Menu bar** (see [page 4](#)).

Backups

Both the patient and image databases should be backed up regularly. For information on backing up and restoring your data, see the online help.

For more information on using CS Imaging Version 7, see the online help.

Contact Information

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