









Notice

Congratulations on your purchase of the CS 8100 Family. Thank you for your confidence in our products and we will do all in our power to ensure your complete satisfaction.

The **Panoramic Modality User guide for CS 8100 Family** provides information on complete or segmented tomographic digital panoramic X-ray image modalities. We recommend that you thoroughly familiarize yourself with this guide in order to make the most effective use of your system.

For Cephalometric Modality, see the **Cephalometric Modality User guide** for CS 8100 Family and CS 8100 3D Family.

The CS 8100 Family includes:

- CS 8100: the complete Panoramic Modality.
- CS 8100 Access: the Panoramic Modality without the 2D+ radiological exam.
- CS 8100SC: the complete Panoramic and Cephalometric Modalities.
- CS 8100SC Access: the Panoramic Modality (without the 2D+ radiological exam modality) and the Cephalometric Modality (without the 26x24 FoV (Field of View)).

This document refers to all models as CS 8100 unless otherwise specified.



Important: We recommend that you consult the **CS 8100 Family Safety, Regulatory and Technical Specification User Guide** (SM785) before using the CS 8100 Family.

The information contained in this Guide may be subject to modification without notice, justification or notification to the persons concerned.

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The US Federal law restricts this device to sale by or on the order of a physician.

This document is originally written in English.

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The CS 8100 Family complies with Directive 93/42/EEC relating to medical equipment.



Contents

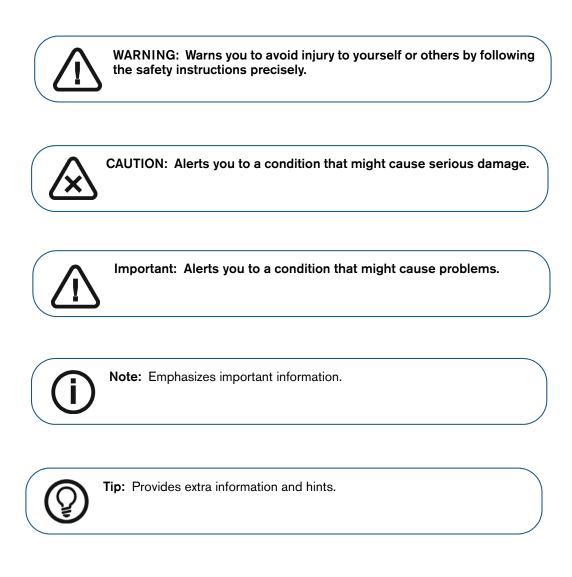
| Chapter 1 Conventions in This Guide | Conventions in this Guide |
|---|---|
| Chapter 2 CS 8100 Overview | Mobile Components.3General Functional Components4Head and Chin Rest.5Positioning Accessories6Positioning Panel7X-Ray Remote Control Overview8 |
| Chapter 3 Imaging Software Overview | Computer System Requirements9General Software Overview.9CS Imaging Software9Panoramic Acquisition Interface.9Panoramic Acquisition Interface Overview10Program Pane11Patient Pane13Parameter Pane14 |
| Chapter 4 Getting Started | Switching on the Unit |
| Chapter 5 Acquiring Images | Acquiring a Panoramic, TMJ x2, or Sinus Image for the Adult and Pediatric Patient.19Preparing the Unit and Setting the Acquisition Parameters19Preparing and Positioning the Adult and Pediatric Patient.23Launching the X-ray26Acquiring a 2D+ Image for the Adult and Pediatric Patient27Preparing the Unit and Setting the Acquisition Parameters27Preparing the Unit and Setting the Acquisition Parameters27Preparing and Positioning the Adult and Pediatric Patient29Launching the X-ray33Acquiring a TMJ x4 Image for the Adult and Pediatric Patient34Preparing the Unit and Setting the Acquisition Parameters34Preparing and Positioning the Adult and Pediatric Patient34Strap the Unit and Setting the Acquisition Parameters34Strap the Unit and Setting the Adult and Pediatric Patient35Launching the X-ray37X-Ray Dose Emission Information38 |

| Chapter 6 | Monthly |
|---------------------|-------------------------------------|
| Maintenance | Annually |
| | Controlling the Image Quality |
| Chapter 7 | Quick Troubleshooting |
| Troubleshooting | |
| Chapter 8 | Manufacturer's Address |
| Contact Information | Factory |
| | Authorized Representative |
| | |
| | Authorized Representative in Brazil |

1 Conventions in This Guide

Conventions in this Guide

The following special messages emphasize information or indicate potential risk to personnel or equipment:



2 CS 8100 Overview

The CS 8100 Family includes:

- CS 8100: the complete Panoramic Modality.
- CS 8100 Access: the Panoramic Modality without the 2D+ radiological exam.
- CS 8100SC: the complete Panoramic and Cephalometric Modalities.
- CS 8100SC Access: the Panoramic Modality (without the 2D+ radiological exam modality) and the Cephalometric Modality (without the 26x24 FoV (Field of View)).

This document refers to all models as CS 8100 unless otherwise specified.

The following figures illustrate the general overview of the CS 8100.

Mobile Components

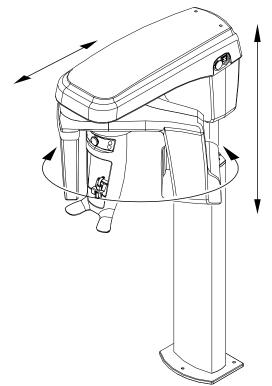
Figure 1 illustrates the:

- up and down movement of the unit
- rotation and translation movement of the rotative arm



Important: The patient can enter through either the left side or the right side of the unit.

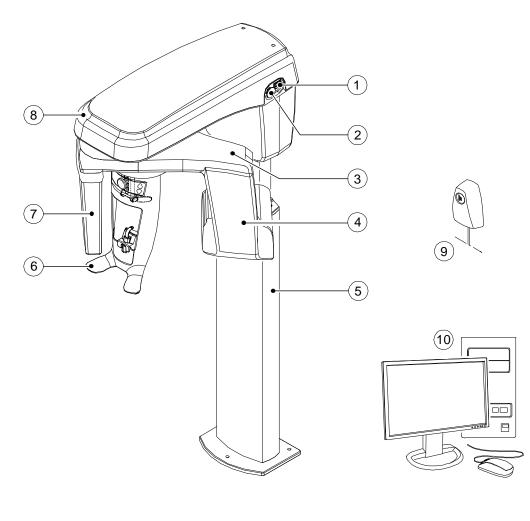
Figure 1 Unit Mobile Components



General Functional Components

Figure 2 illustrates the general functional components of the unit.

Figure 2 Unit Functional Components



- 1 ON/OFF button
- 2 Emergency stop knob
- 3 Unit rotative arm
- 4 X-ray source assembly
- 5 Unit column

- 6 Head and chin rest
- 7 Digital panoramic sensor
- 8 Unit head
- 9 X-ray remote control
- 10 PC hosting the imaging and the acquisition software

Head and Chin Rest

Figure 3 illustrates the functional components of the head and chin rest.

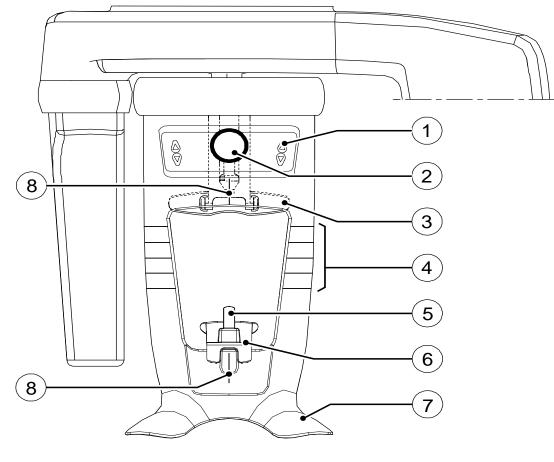


Figure 3 Head and Chin Rest Functional Components

| 1 | Positioning Panel | 5 | Bite block support |
|---|-----------------------------------|---|--------------------|
| 2 | Frontal head rest adjustment knob | 6 | Chin rest |
| 3 | Frontal head rest | 7 | Hand grips |

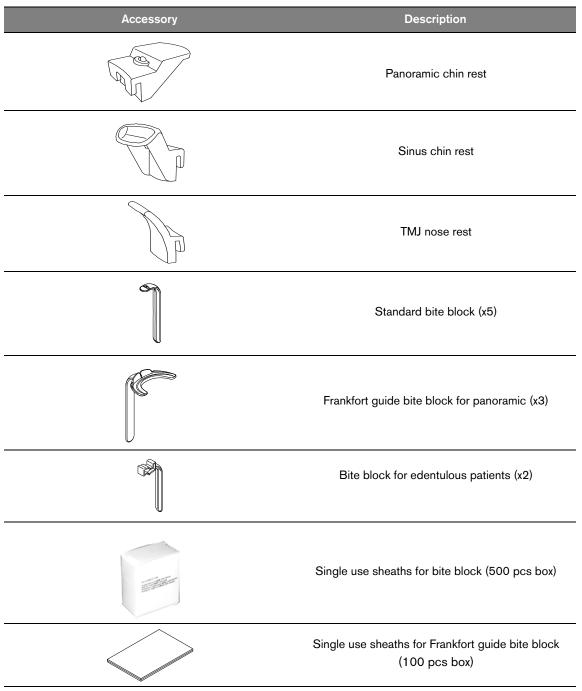
- Horizontal positioning indicators 4
- Hand grips
- 8 Vertical positioning indicators

Positioning Accessories

The following accessories are used when positioning a patient. They are delivered with the CS 8100.

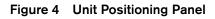
Table 1 lists the positioning accessories.

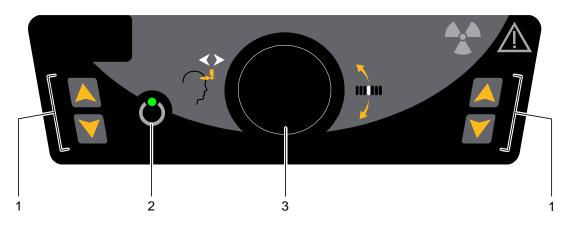
| Table 1 Positioning A | ccessories |
|-----------------------|------------|
|-----------------------|------------|



Positioning Panel

The positioning panel is a console on the head and chin rest that enables you to correctly position and align a patient before you acquire an image.





1 Height Adjustment buttons:

- Adjusts the height of the unit to the height of the patient.
- When the unit is not in use, places the rotative arm in a parallel position to the unit head, leaving more free space around the unit.

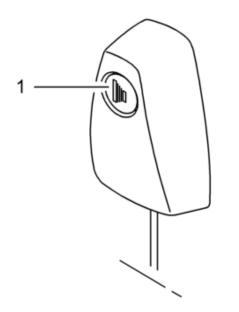
To do so, press and hold both buttons until the **Ready Indicator LED** switches off. When you release both buttons, the **Ready Indicator LED** will flash before the rotative arm turns to the parallel position.

- 2 Ready Indicator LED: Green indicates that the unit is ready for acquisition.
- **3** Frontal head rest adjustment knob: Positions the up or down inclination of the patient head by turning the knob.

X-Ray Remote Control Overview

The X-ray remote control enables you to launch a radiological image acquisition via the exposure button from outside the X-ray room. You must press and hold the exposure button until the end of acquisition. Premature release of the exposure button interrupts the acquisition.

Figure 5 X-Ray Remote Control



1 Exposure button: launches image acquisition.



WARNING: X-rays can be harmful and dangerous if not used properly. The instructions and warnings contained in this guide must be followed carefully.

Computer System Requirements

For the minimum computer system requirements and configuration for the Imaging Software, see the CS 8100 Family Safety, Regulatory and Technical Specifications User Guide.



Important: It is MANDATORY to check that the computer system configuration is compatible with the computer system requirements for the CS 8100 software. If necessary you MUST update your computer system configuration.



Important: The unit MUST be connected to the computer via a point-to-point Ethernet link and not via a LAN.

General Software Overview

The CS 8100 operates with the following software:

- CS Imaging Software
- Panoramic Acquisition Interface

CS Imaging Software

The CS Imaging Software is a user-friendly working interface designed and developed specifically to support image diagnosis.

Panoramic Acquisition Interface

The **Panoramic Acquisition Interface** is a user-friendly image acquisition interface designed and developed specifically for the CS 8100 Family.

Panoramic Acquisition Interface Overview

The Panoramic Acquisition Interface provides you with panoramic image acquisition functions.

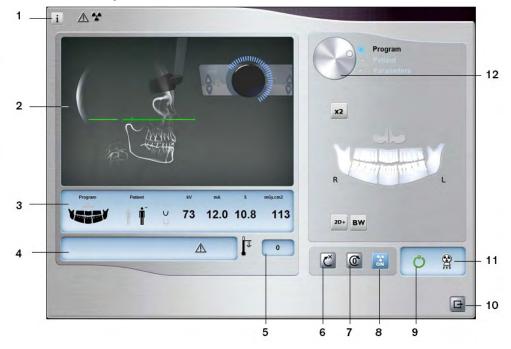


Figure 6 Panoramic Acquisition Interface

- 1 Information button:
 - Show versions ...: Identifies Software and Firmware versions.
 - Resetting Anatomy setting: Resets to the manufacturing parameter settings.
 - Memorize Anatomy setting: Memorizes the user preference settings for each patient type (kV, mA and seconds).
- 2 **Preview Screen:** Displays the acquired image after a few seconds.
- 3 Selected Parameter Display: Displays the current acquisition parameter settings.
- 4 System Status Screen: Displays various alert or warning messages originating from the unit.
- 5 **Generator Cooling indicator:** Indicates the automatic cooling time (mm:ss) required for the generator to reach 0 for a new acquisition.
- 6 **Reset button:** Resets the unit to the starting position to enable you to position a patient in the unit.
- 7 **Parallel position button:** Leaves more free space around the unit when it is not in use by placing the rotative arm in a parallel position to the unit head.
- 8 X-ray On/Off button: Enables or disables X-ray emission.
- 9 Ready Indicator LED
 - Green indicates the unit is ready to start acquisition.
 - Black indicates the unit is not ready to start acquisition.
- **10 Exit button:** Closes the Acquisition interface.
- 11 X-ray Emission indicator: Yellow, indicates the X-ray emission status.
- 12 Selector Button: Selects different acquisition setting options.
 - Click Program to select examination type options.
 - Click Patient to select patient type parameters.
 - Click Parameters to select exposure parameter options.

Program Pane

The **Program pane** enables you to choose different radiological exams. The diagram in the **Program pane** represents a jaw, with the **R** side of the diagram corresponding to the right side of the patient.

Figure 7 Program Pane



Radiological exam options:

Segmented panoramic acquisition:

Click on the following areas of interest that you want to examine:

- Posterior
- Anterior

The selected area of interest will highlight. Example (anterior exam):



Maxillary Sinus acquisition:

Click .

TMJ acquisition:



Full panoramic acquisition:

Click on all the areas of interest. Example:

Bitewing acquisition:

Click BW

Select one or both area(s) of interest



2D+ acquisition:



Click to examine a selected area of interest in 2D+ slices that can be moved in the buccal/lingual direction across a jaw.

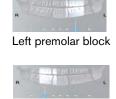
You can select 7 areas of interest:









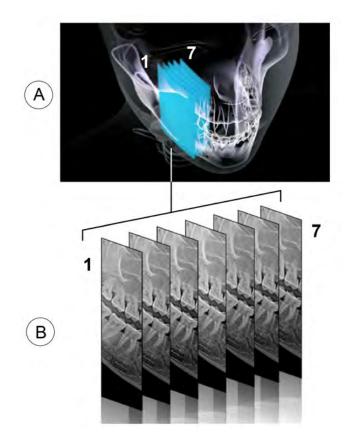


Right premolar block

Left molar block



The following figure illustrates a buccal to lingual block area of interest (A) and the 7 acquired 2D+ image slices (B) at different depths inside the jaw.





Note: The 2D+ feature is available for CS 8100 and CS 8100SC. It is not available for CS 8100 Access and CS 8100SC Access.

Patient Pane

The Patient pane enables you to choose and select the different patient parameters. The selected parameters for a patient influences the image quality because:

- The default KV and mA exposure settings are set for the selected patient mode. •
- The image is reconstructed according to the patient dental arch morphology.

The selected parameters must be based on the age and morphology of the patient .

Figure 8 Patient Pane

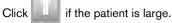
| Patient | |
|---------|-----|
| | _ 1 |
| | - 2 |



- Note: A selected patient mode sets the: kV and mA
 - jaw size

1 Patient type parameters:

| Pediatric mode: | | |
|----------------------------------|--|--|
| Click if the patient is a child. | | |
| Adult mode: | | |
| Click if the patient is small. | | |
| Click if the patient is medium. | | |





Important: See the CS 8100 Family Safety, Regulatory and Technical Specifications User Guide for information on radiation protection and recommendations when you select a patient type especially the pediatric patient.

| 2 | Patient dental arch morphology: |
|---|---------------------------------|
|---|---------------------------------|

| Click of a normal shape dental arch. |
|--|
| Click for a square dental arch. |
| Click for a sharp dental arch. |

Parameter Pane

The **Parameter Pane** enables you to choose exposure parameters for the radiological image acquisition. If the default parameter setting is not adapted to your patient type, you can manually adapt the parameter setting to the patient type and save this setting as the default setting.

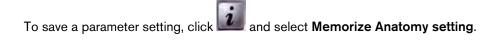
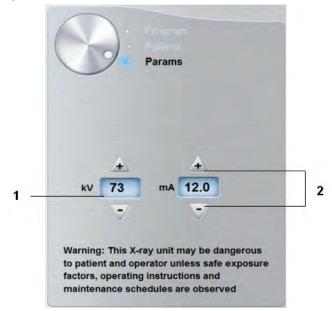


Figure 9 Parameter Pane



¹ Exposure setting options:



2 Fine-tuning buttons:

Click or to fine-tune the kV and the mA.

4 Getting Started

Switching on the Unit

Before switching on the unit, check that:

- The installation of the unit is complete.
- The computer is switched on.
- The imaging software is not opened.



Important: You must switch on the computer and wait for it to be ready for the connection before switching on the unit.

To switch on the unit, follow these steps:

- 1 On the unit column, press the **ON** button.
- 2 You must wait for a minute for the connection between the unit and the computer to be established. If you start the imaging software before the connection is established an error message is displayed. Click **OK**, close the imaging software and wait for the connection to be established.
- 3 You can now proceed to start the CS Imaging Software.

Increasing the operating life of the X-ray tube



Important: To increase the operating life of the X-ray tube, if the unit has not been used for a month, you must follow the following procedures before use.

To increase the operating life of the X-ray tube, follow these steps:

- 1 In the Panoramic Acquisition Window, select the Parameter pane.
- 2 Select the following series of parameter settings:
 - 70 kV 6.3 mA
 - 80 kV 10 mA
 - 85 kV 10 mA
- 3 Leave the X-ray room and close the door. For each parameter setting, from the X-ray remote control, press and hold the button to launch the X-ray

The unit is now ready to be used for acquisition.

Firewall or Network Settings

You will not be able to access the Acquisition Interface if you have not configured the firewall or network settings.

To configure the firewall or network settings, follow these steps:

On your desktop, double-click **W** to open the **CS Imaging Software**.

1

The Windows Security Alert dialog box displays. Select Private networks, Public networks, and click Allow access.

| Vindows Firewall | has blocked som | e features of SDK Modules on all public and private networks. |
|------------------|-------------------|--|
| | Name: | SDK Modules |
| | Publisher: | Trophy |
| | Path: | C:\program files (x86)\common files\trophy\acquisition \acq_process_win32.exe |
| low SDK Module | es to communicat | e on these networks: |
| Private ne | tworks, such as r | ny home or work network |
| | | ose in airports and coffee shops (not recommended ten have little or no security) |

2 Click Quit on the following dialog box:



- Close the imaging software. З
- On your desktop, double-click **W** to re-open the **CS Imaging Software**. 4



Note: See your firewall documentation for information on how to configure the firewall or network settings.

Accessing the Panoramic Acquisition Interface

To access the Panoramic Acquisition Interface, follow these steps:

1 On your desktop, double-click with to open the CS Imaging Software.



Important: If the Windows Security Alert dialog box opens to block the imaging software, you must configure the firewall or network settings. See "Firewall or Network Settings".

- 2 Find or create the patient record.
- 3 Select and double-click the patient card in the patient list. The imaging window is displayed.
- 4 In the imaging window, click

to access the Panoramic Acquisition Interface.

To launch an acquisition, see the following chapter:

Chapter 5–Acquiring Images

Acquiring a Panoramic, TMJ x2, or Sinus Image for the Adult and Pediatric Patient

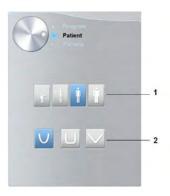
Before acquiring an image, check that you have:

- Reset the unit rotative arm to the start position for patient to enter the unit.
- Selected the patient record.
- Accessed the imaging window.
- Accessed the Acquisition Interface.

Preparing the Unit and Setting the Acquisition Parameters

To set the acquisition parameters, follow these steps:

1 Click the **Patient** button to access the **Patient pane**.



Select the patient:



Important: See the CS 8100 Family Safety, Regulatory and Technical Specifications User Guide (SM785) for information on radiation protection and recommendations when you select a patient type.

- Type (1):
 - Child
 - Adult: Small, Medium, Large
- Dental arch morphology (2)

2 In the Acquisition Interface, click the Program button to access the Program pane.



Click on one area of interest that you want to examine:

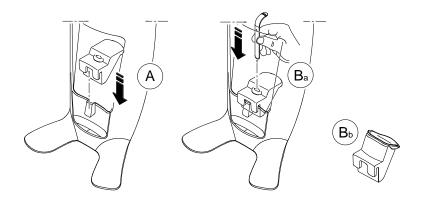
- Sinus:
- 3 **(Optional)** If the default parameter setting is not adapted to your patient type, click the **Parameter** button:



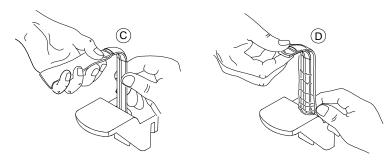
- Select the appropriate parameters.
- Click and select **Memorize Anatomy setting** to save the new parameter settings as the default settings.
- 4 Position and fix the panoramic chin rest (A). Fit the bite block to the panoramic chin rest (Ba). Make sure that you click it well into place. If needed, use the edentulous bite block or the sinus chin rest (Bb). You may if required use the **Frankfort guide bite block for panoramic** to help position the patient.



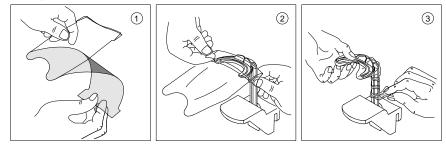
Note: Use the panoramic chin rest (A) for a panoramic or TMJ x2 image acquisition. Use the sinus chin rest (Bb) for a sinus image acquisition. Use the TMJ nose rest for a TMJ x4 acquisition.



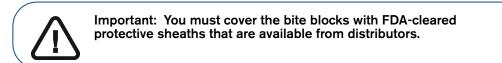
- 5 Insert a hygienic barrier over the bite block.
 - If you are using the standard panoramic bite block, fit the hygienic barrier as shown in (C) and (D).

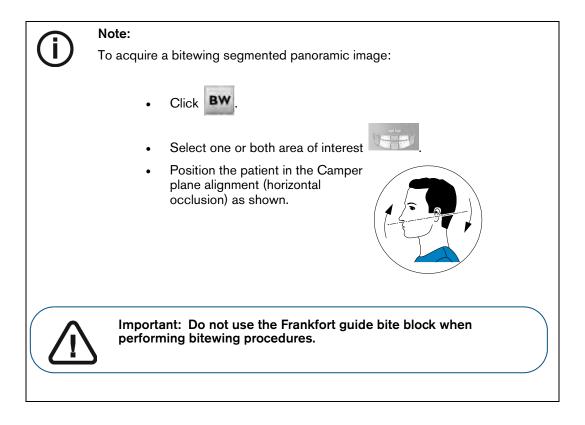


• If you are using the Frankfort guide bite block for panoramic, use the required single use hygienic sheath.



Make sure that you cover the bite block completely with the hygienic barrier.







Important: The acquisitions that you obtain using the bitewing segmented panoramic program are not equivalent to an intraoral bitewing examination.

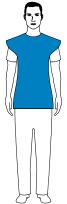
Preparing and Positioning the Adult and Pediatric Patient

To prepare and position the patient, follow these steps:

1 Ask the patient to remove all metal objects.

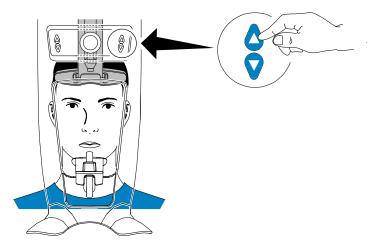


2 Ask the patient to wear a lead apron. Ensure that the apron lays flat across the patient's shoulders.

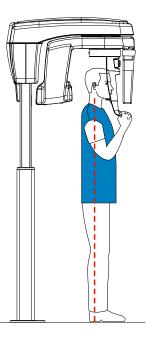


3 Ask the patient to enter the unit. On the **Positioning panel**, press and hold **1** to raise the chin rest to the height of the patient.

Note: If the patient is too tall, tell the patient to sit on a stool.



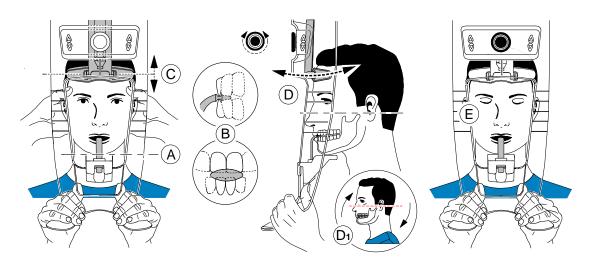
- 4 Ask the patient to:
 - Stand up straight (do not position the feet slightly forward).
 - Grip both the lower handles of the head and chin rest.
 - Relax and lower the shoulders for full motion of the unit rotative arm.



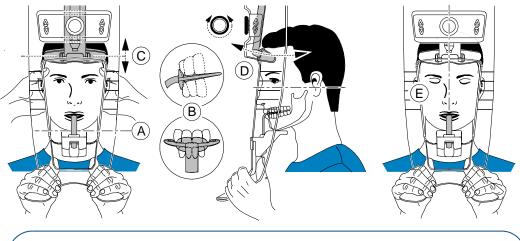


Note: By correctly positioning the patient, you can reduce the spinal column shadow that is transferred to the acquired image.

- 5 Ask the patient to place the chin on the chin rest support (A).
- 6 Ask the patient to bite on the bite block:
 - If you are using the standard panoramic bite block, ask the patient to bite into the groove of the bite block (B) as shown.



If you are using the Frankfort guide bite block for panoramic, ask the patient to bite on the **bite block** (B) as shown.



Important: If you are using the Frankfort guide bite block, make sure the patient bites on the complete block, and that the patient's occlusal plane inclination follows the angle of the bite block.

Adjust the frontal head rest (C) to the forehead. Make sure that the forehead is firmly fixed on the 7 frontal head rest.

Use your hands and the vertical positioning indicators as visual aids to align the head to the Sagittal plane.



Important: The spinal column and the nose of the patient must be aligned in a straight vertical line (E).

- Turn the frontal head adjustment knob (D). If you are using the standard panoramic bite block, 8 you can use the horizontal positioning indicators as visual aid to adjust the up or down inclination of the patient head (D₁) to obtain a Frankfort plane horizontal alignment.
- Ask the patient to: 9
 - Close the eyes (E).
 - Swallow.
 - Remain still.
 - Breathe through the nose.
 - Place the tongue on the palate.

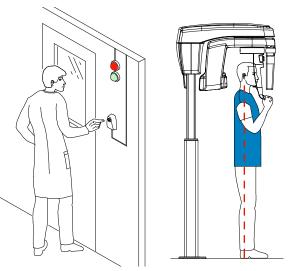
Launching the X-ray

To launch the X-ray, follow these steps:

1 Leave the X-ray room and close the door. You must keep visual contact with the patient during acquisition.



Important: To stop the acquisition, if there is any problem, release the exposure button of the remote control or press the red emergency stop button.



2 Launch the X-ray with the remote control.

The Release turns yellow and a warning sound is heard, indicating X-ray emission. Press and hold the exposure button until the end of the acquisition is indicated by the on-screen "Release Handswitch" message.

When the acquisition ends, the **Acquisition** interface disappears and the acquired image is automatically transferred to the **Imaging Window**.



- 3 Check the image quality.
- 4 Do the following when the acquisition is finished:
 - Release the patient.
 - Remove the hygiene barrier from the bite block.

Acquiring a 2D+ Image for the Adult and Pediatric Patient

Before acquiring an image, check that you have:

- Reset the unit rotative arm to the start position for patient to enter the unit.
- Selected the patient record.
- Accessed the imaging window.
- Accessed the Acquisition interface.

Preparing the Unit and Setting the Acquisition Parameters

To set the acquisition parameters, follow these steps:

1 Click the **Patient** button to access the **Patient pane**.



Select the Patient type and Dental arch morphology:



Important: See the CS 8100 Family Safety, Regulatory and Technical Specifications User Guide for information on radiation protection and recommendations when you select a patient type especially the pediatric patient.

- Type (1):
 - Child
 - Adult: Small, Medium, Large
- Dental arch morphology (2)
- 2 In the Acquisition interface, click the Program button to access the Program pane.

| Program Patient Parameters |
|------------------------------|
| x2 |
| R |
| 2D+ BW |

3 Click on and click on the area of interest that you want to examine. Example:



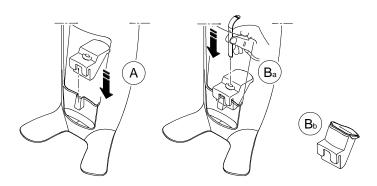
4 **(Optional)** If the default parameter setting is not adapted to your patient type, click the **Parameter** button:



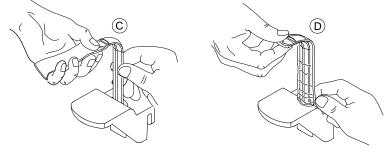
- Select the appropriate parameters.
- Click and select **Memorize Anatomy setting** to save the new parameter settings as the default settings.
- 5 Position and fix the panoramic chin rest (A). Fit the bite block to the panoramic chin rest (Ba). Make sure that you click it well into place. If necessary, use the edentulous bite block. You can use the **Frankfort guide bite block for panoramic** to help position the patient.



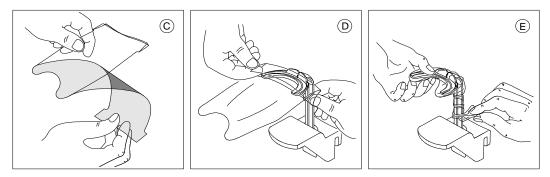
Note: Use the panoramic chin rest (A) for a panoramic or TMJ x2 image acquisition. Use the sinus chin rest (Bb) for a sinus image acquisition.



- 6 Insert a hygienic barrier over the bite block.
 - If you are using the standard panoramic bite block, fit the hygienic barrier as shown in (C) and (D).



• If you are using the Frankfort guide bite block for panoramic, use specially adapted single use hygienic sheaths.



Make sure that you cover the bite block completely with the hygienic barrier.



Important: You must cover the bite blocks with FDA-cleared protective sheaths that are available from distributors.

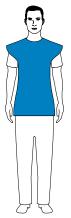
Preparing and Positioning the Adult and Pediatric Patient

To prepare and position the patient, follow these steps:

1 Ask the patient to remove all metal objects.



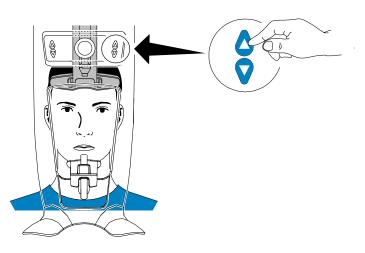
2 Ask the patient to wear a lead apron. Ensure that the apron lays flat across the patient's shoulders.



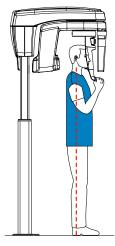
3 Ask the patient to enter the unit. On the **Positioning panel**, press and hold **1** to raise the chin rest to the height of the patient.



Note: If the patient is too tall, tell the patient to sit on a stool.



- 4 Ask the patient to:
 - Stand up straight (do not position the feet slightly forward).
 - Grip both the lower handles of the head and chin rest.
 - Relax and lower the shoulders for full motion of the unit rotative arm.

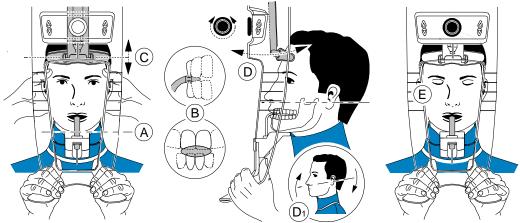


Note colu

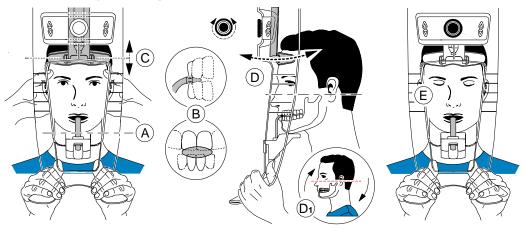
Note: By correctly positioning the patient, you can reduce the spinal column shadow that is transferred to the acquired image.

- 5 Ask the patient to place the chin on the chin rest support (A).
- 6 Ask the patient to bite on the bite block (A), (B).
 - If you are using the standard panoramic bite block, ask the patient to bite into the groove of the bite block (A), (B) as shown.

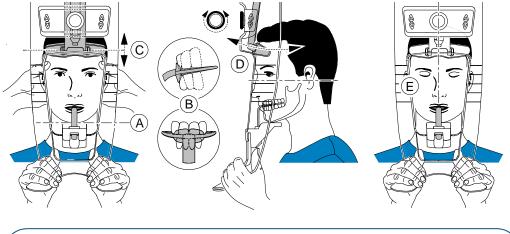
Camper Plane positioning



Frankfort Plane positioning



• If you are using the Frankfort guide bite block for panoramic, ask the patient to bite on the bite block (B) as shown.



Important: If you are using the **Frankfort guide bite block for panoramic,** make sure the patient bites on the complete block, and that the patient's occlusal plane inclination **follows the angle** of the bite

7 Carefully position the patient:

- If you are using a standard bite block, turn the frontal head adjustment knob (D) and use the horizontal positioning indicators as visual aid to adjust the patient head (D₁) for a Camper plane or Panoramic plane alignment.
- If you are using the Frankfort guide bite block for panoramic, make sure the patient bites on the complete block, and that the patient's occlusal plane inclination follows the angle of the bite block.
- Adjust the frontal head rest (C) to the forehead.
 Make sure that the forehead is firmly fixed on the frontal head rest.
 Use your hands and the vertical positioning indicators as visual aids to align the head to the Sagittal plane.



Important: The spinal column and the nose of the patient must be aligned in a straight vertical line.

- 9 Ask the patient to:
 - Close the eyes (E).
 - Swallow.
 - Remain still.
 - Breathe through the nose.
 - Place the tongue on the palate.

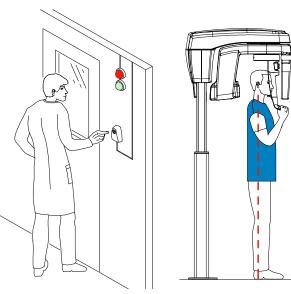
Launching the X-ray

To launch the X-ray, follow these steps:

1 Leave the X-ray room and close the door. You must keep visual contact with the patient during acquisition.



Important: To stop the acquisition, if there is any problem, release the exposure button of the remote control or press the red emergency stop button.

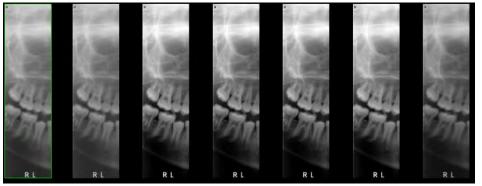


2 Launch the X-ray with the remote control.

The 😫 turns yellow and a warning sound is heard, indicating X-ray emission.

Press and hold the exposure button until the end of the acquisition is indicated by the on-screen "Release Handswitch" message.

When the acquisition ends, the **Acquisition** interface disappears and the acquired image is automatically transferred to the **Imaging Window**.



- 3 Check the image quality.
- 4 Do the following when the acquisition is finished:
 - Release the patient.
 - Remove the hygiene barrier from the bite block.

Acquiring a TMJ x4 Image for the Adult and Pediatric Patient

Before acquiring an image, check that you have:

- Reset the unit rotative arm to the start position for patient to enter the unit.
- Selected the patient record.
- Accessed the imaging window.
- Accessed the Acquisition interface.

Preparing the Unit and Setting the Acquisition Parameters

To set the acquisition parameters, follow these steps:

1 Click the **Patient** button to access the **Patient pane**.



Select the patient:



Important:

See the CS 8100 Family Safety, Regulatory and Technical Specifications User Guide for information on radiation protection and recommendations when you select a patient type especially the pediatric patient.

- Type (1):
 - Child
 - Adult: Small, Medium, Large
- Dental arch morphology (2)
- 2 In the Acquisition interface, click the Program button to access the Program pane.



3 Click 22. The selected are of interest will highlight:



- 4 Double click *****². *****⁴ appears for a TMJ x4 acquisition.
- 5 **(Optional)** If the default parameter setting is not adapted to your patient type, click the **Parameter** button:

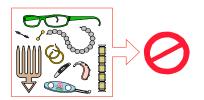


- Select the appropriate parameters.
- Click and select **Memorize Anatomy setting** to save the new parameter settings as the default settings.
- 6 On the head and chin rest, remove or v, fit the TMJ nose rest v and cover it with a hygienic barrier.

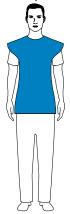
Preparing and Positioning the Adult and Pediatric Patient

To prepare and position the patient, follow these steps:

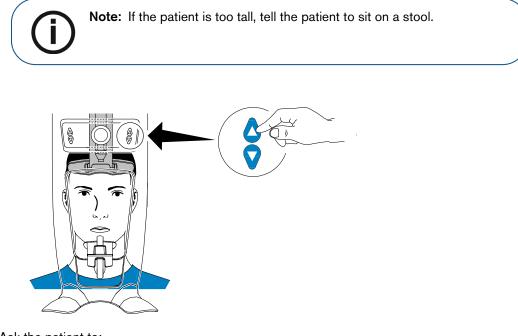
1 Ask the patient to remove all metal objects.



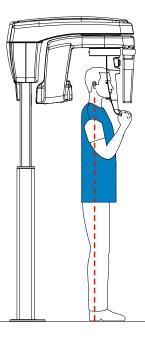
2 Ask the patient to wear a lead apron. Ensure that the apron lays flat across the patient's shoulders.



3 Ask the patient to enter the unit. On the **Positioning panel**, press and hold **1** to raise the chin rest to the height of the patient.



- 4 Ask the patient to:
 - Stand up straight (do not position the feet slightly forward).
 - Grip both the lower handles of the head and chin rest.
 - Relax and lower the shoulders for full motion of the unit rotative arm.





Note: By correctly positioning the patient, you can reduce the spinal column shadow that is transferred to the acquired image.

Launching the X-ray

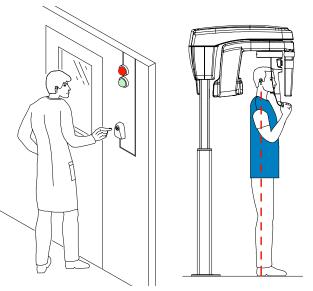
To launch the X-ray, follow these steps:

1 Tell the patient to remain still, eyes closed, and mouth closed. Leave the X-ray room and close the door. You must keep visual contact with the patient during acquisition.





Important: To stop the acquisition, if there is any problem, release the exposure button of the remote control or press the red emergency stop button.



2 Launch the X-ray with the remote control to acquire an image.

The 😫 turns yellow and a warning sound is heard, indicating X-ray emission.

Press and hold the exposure button until the end of the acquisition is indicated by the on-screen "Release Handswitch" message.

When the acquisition ends, the **Acquisition** interface disappears and the acquired image is automatically transferred to the **Imaging window**.

3 Tell the patient to stay in the same position but with mouth opened. Repeat Step 2 to acquire another image with the mouth opened.



- 4 Check the quality of the images.
- 5 Do the following when the acquisition is finished:
 - Release the patient.
 - Remove the hygiene barrier and the \Im from the head and chin rest.

X-Ray Dose Emission Information

Compliance with EURATOM 97/43 Directive

You can right-click on each image to display the estimated emitted dose received by the patient. You can use this information to calculate the effective dose received by the patient for the image.

The radiation emission dose is expressed in mGy.cm². This dose is measured at the primary collimator outlet. The dose is accurate to +/-30%.



Perform the following maintenance activities on your CS 8100 and CS 8100 Access.



IMPORTANT For information on cleaning and disinfecting, see the CS 8100 Family Safety, Regulatory and Technical Specification User Guide (SM785).

(For information on carrying out maintenance activities on CS 8100SC and CS 8100SC Access, see the relevant Cephalometric Modality documentation).

Monthly

Wipe the outer covers of the unit with a soft and dry cloth.

Annually

We recommend a general inspection of the unit carried out by an authorized service technician.

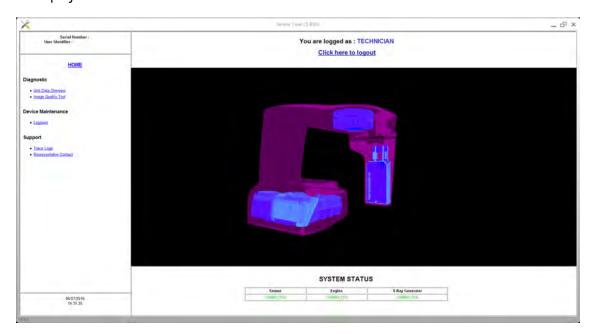
Controlling the Image Quality

To maintain optimum image quality, the image quality must be controlled once a month. To control the image quality, follow these steps:

displayed.



1. On your desktop, double-click categories. The CS 8100 Technician Tools window is



2. In the left pane, double-click **Image Quality Tool**. The **Image Quality Control** window is displayed.

| <u> </u> | Surversi (odis C5 8100 | D, | | | |
|--|--|----|--|--|--|
| Serial Number : User Identifier : | Imaging Quality Control Software The Imaging Quality Control Software enables you to control the Image quality of your connected device according to your country's requirements. | | | | |
| HOME | Start a new test: 1. Clock test options: each time you need to modify the default test procedure. Especially, for the first time, you must select your test procedure for your commuted device. | | | | |
| Quality assurance tool procedure | 2 Click Start a new less, to thek the image quality of your connected deep. | | | | |
| Getting started Start a new text View previous reports | Year provides reports: when you need to view, compare or delete previous reports | | | | |
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3. Select the desired test and follow the on-screen instructions.

Troubleshooting

Quick Troubleshooting

Occasionally, malfunctions can occur during use in the event of an incorrect action. An error message is displayed on the popup on the **Acquisition** interface **System Status Screen**.

The following table lists the information messages, their description and the action to take:



IMPORTANT

If an Error Code message is displayed, the malfunction persists or more serious conditions occur, contact a qualified technician. When you call the qualified technician have the following information ready:

- Model Serial Number
- Error Code Message

Table 2 Error Code Message

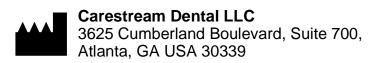
| Error Code | Error Message | Description | Action |
|------------|---------------------|-----------------|---|
| | released before the | exposure button | Relaunch the acquisition and hold the exposure button until the end of the acquisition cycle. |

Table 3 Quick Troubleshooting

| Message | Description | Action |
|--|-------------------------------|---|
| X-ray tube cooling | Cooling in progress. | Wait until the Generator Cooling Indicator on the Acquisition interface reaches zero. |
| Thermal security | Cooling in progress. | Wait until the Generator Cooling Indicator on the Acquisition interface reaches zero. |
| Release handswitch | The acquisition has ended. | Release the exposure button of the x-ray remote control. |
| Start the acquisition The acquisition has been launched. | | Keep pressing and holding the exposure button. |
| Upgrade of the firmware | The system is being upgraded. | Wait for completion of the upgrade. |



Manufacturer's Address



Factory

Trophy

4, Rue F. Pelloutier, Croissy-Beaubourg 77435 Marne-la-Vallée Cedex 2, France

Authorized Representative

European Authorized Representative



TROPHY 4, Rue F. Pelloutier, Croissy-Beaubourg 77435 Marne la Vallée Cedex 2, France

Authorized Representative in Brazil

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