

**CS 1200 Intraoral Camera**

**User and Installation Guide**

# Notice

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We recommend that you thoroughly familiarize yourself with this Guide in order to make the most effective use of your system.



**WARNING: We recommend that you consult the “Safety Sheet” and the “Safety and Regulatory Guide” before using the CS 1200 Systems.**

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

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# 1 Conventions in This Guide

## Conventions in this Guide

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



**WARNING:** Warns you to avoid injury to yourself or others by following the safety instructions precisely.



**CAUTION:** Alerts you to a condition that might cause serious damage.



**Important:** Alerts you to a condition that might cause problems.



**Note:** Emphasizes important information.



**Tip:** Provides extra information and hints.



# 2 CS 1200 Intraoral Camera Overview

The CS 1200 intraoral camera is an easy-to-use, simple-to-share, and high quality imaging system. It has three connection configurations based on which model you purchased:

- USB
- S-Video
- AV

When connected to a computer, it has the following functions:

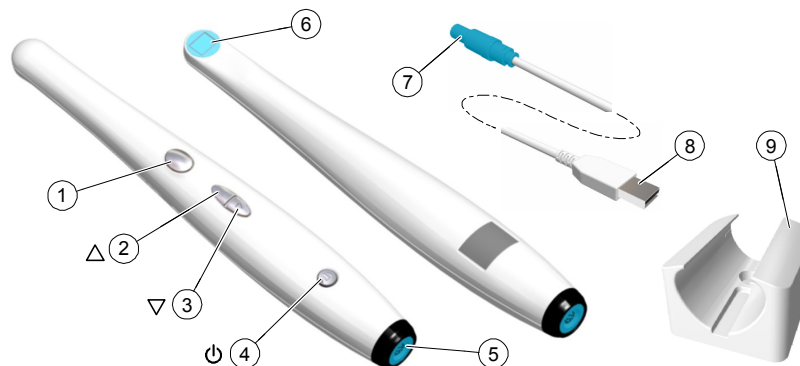
- Recording videos
- Capturing images
- Reviewing recorded videos and captured images



When connected to a monitor, it has the following functions:

- Capturing Images
- Reviewing images.

## Camera Overview

**Figure 1 Camera Components Overview**



- |                                |   |
|--------------------------------|---|
| 1 Capture button               | Press to capture an image.  |
| 2 Review button (backward)     | Press to view the previous image.   |
| 3 Review button (forward)      | Press to view the next image.   |
| 4 Power button (LED indicator) | <ul style="list-style-type: none"><li>• Press 3 seconds to power ON.</li><li>• Press 3seconds to power OFF.</li><li>• Press 1 second to turn OFF the LED of the lens window.</li><li>•  indicates the power is ON.</li><li>•  indicates the power is OFF.</li></ul> |

- 5** Cable connection
  - USB
  - S-Video
  - AV
- 6** Camera Lens
- 7** Push-pull connector
- 8** USB Connector
- 9** Camera holder



# 3 CS 1200 Software Overview

## Minimum Computer System Requirements

If necessary you must update your computer system configuration.

Item	Minimum System Requirement
<b>CPU</b>	1.8 GHz Intel Pentium IV
<b>RAM</b>	1 GB
<b>Monitor</b>	1024 x 768 minimum screen resolution - 32 bits color mode
<b>Operating system</b>	<ul style="list-style-type: none"><li>• Windows XP SP3 (32 bits)</li><li>• Windows Vista (32 or 64 bits)</li><li>• Windows 7 (32 or 64 bits)</li></ul>
<b>USB port</b>	USB 2.0 high speed port
<b>CD/DVD drive</b>	DVD-ROM drive is required to install the product.
<b>Video memory</b>	128M (integrated or dedicated)
<b>Video card driver</b>	Support OpenGL version 1.4 or higher

The computer should be situated in or close to the operating area, in the visual field of the practitioner when using the camera.



**Note:** The quality of images is affected by the quality of the monitor and monitor settings. See your monitor user's guide for information.

## General Software Overview

The CS 1200 intraoral imaging system operates with the following software:

- Imaging software
  - KODAK Dental Imaging Software
  - Imaging software using TWAIN interface
- CS1200 Acquisition interface

## KODAK Dental Imaging Software

The KODAK Dental Imaging Software is a user-friendly interface that was designed and developed as a common imaging platform for all our dental digital systems.

For more details, see the KODAK Dental Imaging Software online help.

## CS 1200 Acquisition Interface Overview

The CS 1200 **Acquisition** interface can acquire, review, and store videos and images of the oral cavity.

**Figure 2 Acquisition Interface Overview**



- 1 **Title Bar:** Displays patient's name.
- 2 **Toolbar:** See "[Toolbar Overview](#)" on page 8.
- 3 **View Screen:** Displays live video, selected captured image, or recorded video.
- 4 **Image Gallery:** Displays thumbnails of all captured images and recorded videos.

## Toolbar Overview

The **Toolbar** enables you to manage the following features:

- Live video recording, viewing, and managing features.
- Image capturing, viewing, and managing features.

### Video Toolbar

The video toolbar enables you to launch, record, and play the live and recorded video.



**Video record** button: Records the live video.



**Play** button: Plays the recorded video.



**Pause** button: Pauses the recorded video.



**Stop** button: Stops the recorded video.

### Image Toolbar

The image toolbar enables you to capture, view, and manage the still image.



**Capture** button: Captures images.



**Reset** button: Clears all changes made to the image.



**Rotation** button: Rotates the image 45°.



**Rotation** button: Rotates the image 90°.

### Common Video and Image Toolbar

The following buttons are shared between video and image screen.



**Live video** button: Launches the live video.





**Review** button: Reviews images and recorded videos.



**Tooth chart comment** button: Accesses the tooth chart dialog box to associate a tooth/teeth with the selected image and enables you to write comments in the **Comments** field.



**Select a format** button: Click  to access the last selected format. Click  to access **Select a format** dialog box to select a new display format.



**Mirror image and Video** button: Mirror the live video and the captured images.



**Full screen** button: Displays the live video, recorded video, and the captured images in full screen.



**Exit button:** Closes the acquisition interface.



**USB connection status icon:** Displays the camera USB connection status. If the icon is red, the USB is disconnected.



**Preference button:** Accesses the preference dialog box.



**Information button:** Accesses information on software version, firmware version, and camera serial number.



**Online help button:** Accesses the online help.

## Image Gallery Toolbar

The image gallery toolbar enables you to manage videos and images displayed in the image gallery.



**Scroll button:** Scrolls images and recorded videos in the image gallery.



**Delete button:** Deletes selected images and recorded videos.



**Delete all button:** Deletes all images and recorded videos in the image gallery.



**Restore button:** Restores the last deleted image or recorded video.

## Dialog Boxes Monitor Connection Overview

### Transfer Toolbar

The transfer toolbar enables you to transfer images from the camera to the **Acquisition** interface or to the computer. The transfer toolbar displays when the camera supports the monitor connection.



**Transfer to ACQ** button: Transfers images from the camera to the **Acquisition** interface.

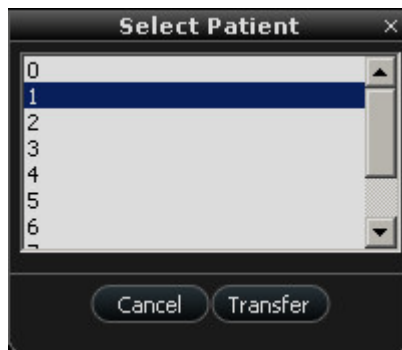


**Transfer to Hard Disk** button: Transfers images from the camera to the computer.

### Select Patient Dialog Box

The **Select Patient** dialog box enables you to transfer images of the selected patient number to the **Acquisition** interface.

Figure 3 Select Patient Dialog Box



# Dialog Boxes Overview

## Image Processing Dialog Box

The image processing dialog box enables you to manage the image contrast and brightness.

Figure 4 Image Processing Dialog Box



**Brightness** button: Adjusts the brightness of the image.



**Contrast** button: Adjusts the contrast of the image.



**Scroll** button: Increases or decreases the brightness and contrast of the image.



**Reset** button: Clears all brightness and contrast changes made to the image.

## Tooth Chart Dialog Box

The tooth chart dialog box enables you to select tooth numbers associated with the image or video.

Figure 5 Tooth Chart



**Date** field: Displays the current date.



**Comments** field: Enters comments to be associated with the image or video.



**Dental arch:** Click to select a tooth.



**Adult dental arch:** Enables tooth selection for an adult.



**Child dental arch:** Enables tooth selection for a child.



**Reset button:** Clears all tooth selections.



**Cancel button:** Cancels all tooth selections.

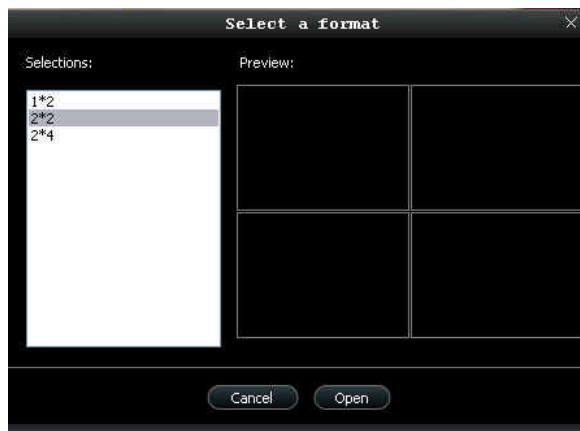


**Save button:** Saves tooth selections.

## Select a Format Dialog Box

The **Select a format** dialog box enables you to select the display format you want.

**Figure 6** Select a Format Dialog Box



**Selection** field: Enables you to select the display format you want.



**Preview** field: Enables you to preview the selected display format.



**Cancel** button: Cancels the format selection.



**Open** button: Opens the format selection.



## Preferences Dialog Boxes Overview

The preference dialog boxes enable you to select the camera and acquisition software settings. Set up your preferences before using the camera.

### General Preferences

Figure 7 General Preferences

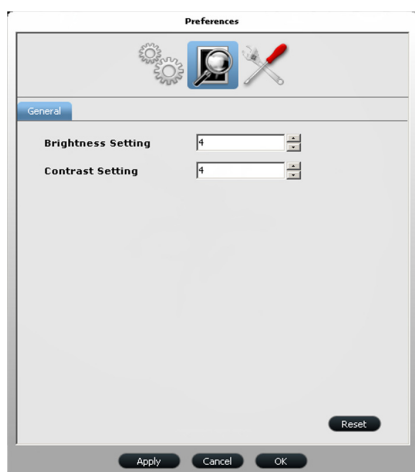


General Preferences enable you to:

- **Language:** Select the menu language.
- **Tooth numbering system:** Select the tooth numbering system.
- **Frequency setting:** Select the local electric frequency.
- **Power off automatically:** Enable/disable the camera's automatically power off feature.
- **Power on automatically:** Enable/Disable the camera's automatically power on feature for the cameras support monitor connection.
- **Capture sound:** Enable/disable the audio sound when an image is captured.
- **Record sound:** Enable/disable the audio sound when a video is recorded.

### Video Adjustment Preferences

Figure 8 Video Adjustment Preferences



Video Adjustment Preferences enable you to adjust the following settings:

- **Brightness Setting:** Select the video brightness setting.
- **Contrast Setting:** Select the video contrast setting.

## Tools Preferences

Figure 9 USB Configuration Tool Preferences

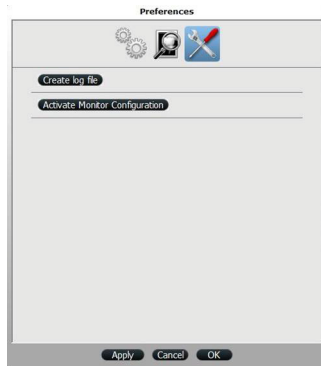
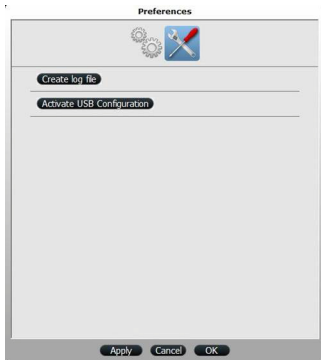


Figure 10 Monitor Configuration Tool Preferences



Tool Preferences enable you to

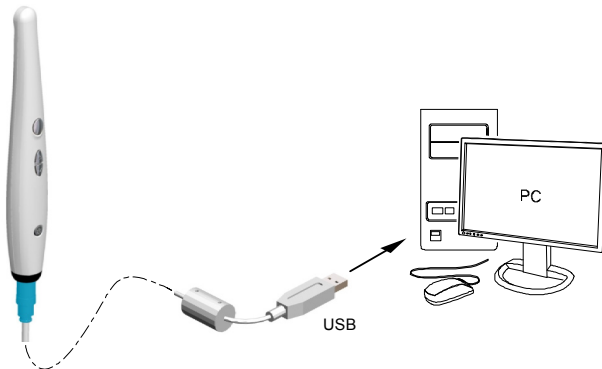
- **Create log file:** Save log files for service information.
- **Activate Monitor Configuration:** Input the activation code and activate monitor connection capability (for USB configuration).
- **Activate USB Configuration:** Input the activation code and activate USB connection capability (for Monitor configuration).

# 4 Setting Up the CS 1200 Intraoral Camera

## Connecting the Camera to a Computer

To connect the camera to a computer, follow these steps:

- 1 Connect the camera to the computer.



- 2 Install the imaging software on the computer:
  - To install the KODAK Dental Imaging Software,
    - U.S. users should see the proper installation guide.
    - Users outside of the U.S. should see the KODAK Dental Imaging Software Installation Guide.
  - To install imaging software using TWAIN interface, see your imaging software user guide.
- 3 Insert the Intraoral Camera Installation Wizard DVD.

Follow the on-screen instruction to install the **Acquisition** interface and set up the camera.



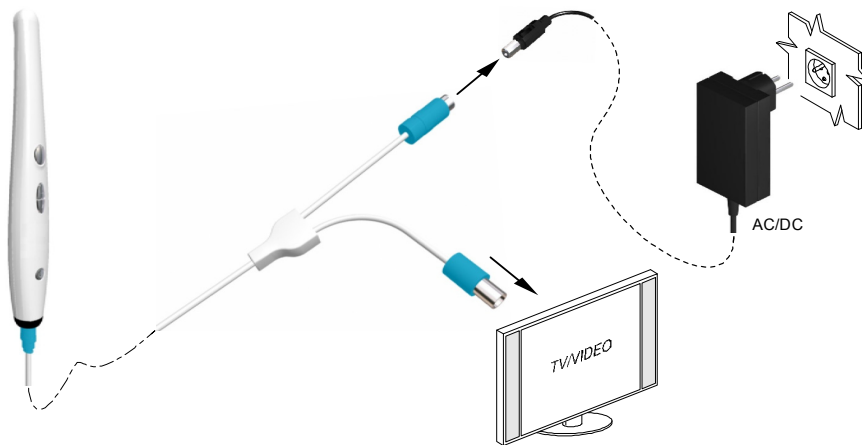
**Important: When you are prompted with the following pop-up, click Continue Anyway.**



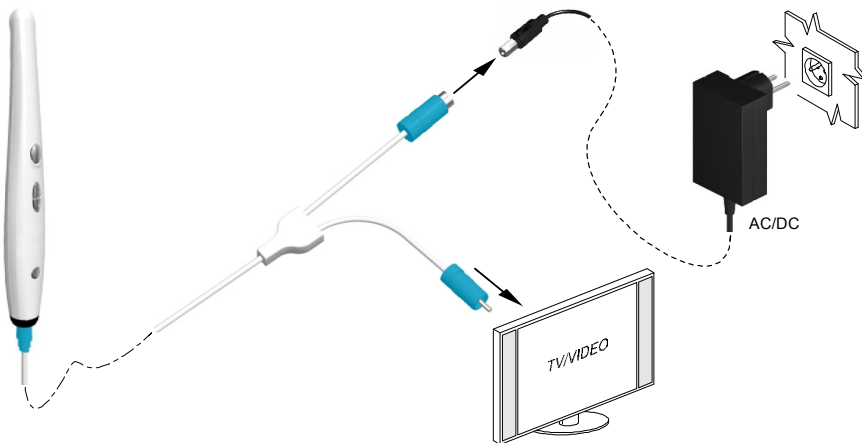
## Connecting the Camera to a Monitor

To connect the camera to a monitor, follow the instructions in the Figures below.

### S-Video Connection



### AV Connection

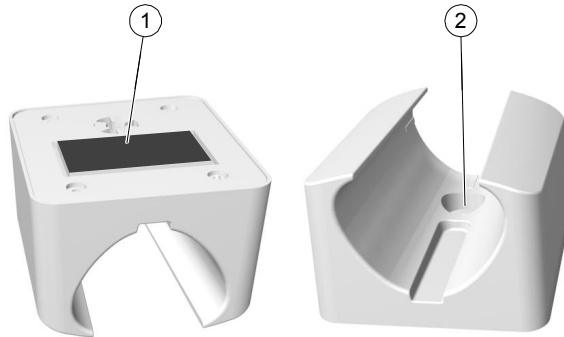


## Installing the Camera Holder

### Camera Holder Components Overview

Place the camera in the holder when you are not using the camera.

**Figure 11 Camera Holder Components Overview**

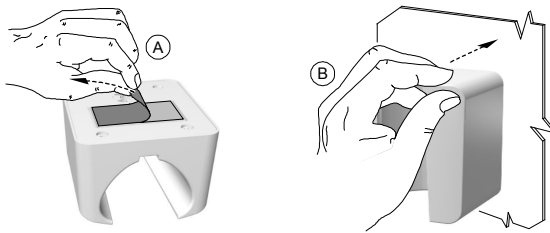


- 1 Adhesive tape
- 2 Opening to fasten the holder securely to the mounting surface using a screw

### Installing the Camera Holder

To install the camera holder, follow these steps:

- 1 Choose a clean area on the wall that you can access easily.
- 2 Clean the surface on which you are going to fasten the camera holder.
- 3 Remove the adhesive tape protection from the support (A).
- 4 Place the taped side of the camera holder on the clean surface (B) and press firmly several times for correct adherence. The maximum adherence is obtained after two hours.





**Important:** You must avoid all stress on the camera holder during the first 2 hours.



**Important:** If you use the adhesive tape to fix the camera holder, it may lose its adherence capability due to environmental and other factors. Check the adherence regularly to ensure that it is secure.



**Important:** Carestream Health is not responsible for accidents involving the camera dropping due to loosening of the adhesive tape.

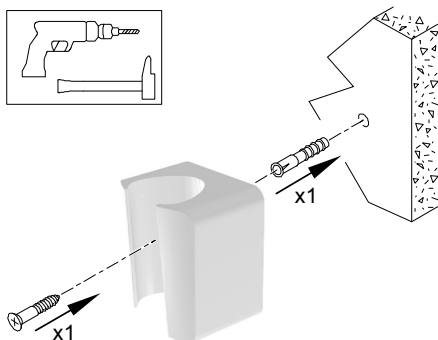


**Note:** The camera automatically goes into sleep mode when inserted into the camera holder or left idle for 1.5 minutes. To use it again, pick it up or press the Capture button.



**Note:** When the camera is idle for more than an hour, it powers off.


- 5 For places on which you cannot use the adhesive tape, insert a screw through the appropriate hole in the camera holder to fix it to a solid surface.



# 5 Getting Started





## Accessing the Acquisition Interface

To access the **Acquisition** interface, follow these steps:

- 1 In the **Imaging window**, click  and select your camera.  
The **Acquisition** interface is displayed.
- 2 Select your preference settings.

## Setting up Preferences

Set up your preferences before using the camera. To set up the preferences, follow these steps:

- 1 On the acquisition interface, click  to access the preferences dialog boxes. The preference dialog box is displayed.
- 2 Click  to set all the **General Preferences**.
- 3 Click  to set the **Video Adjustment Preferences**.
- 4 Click  to select the **Tool Preferences**.

You can now start capturing images or recording videos.

## Using Imaging Software with TWAIN



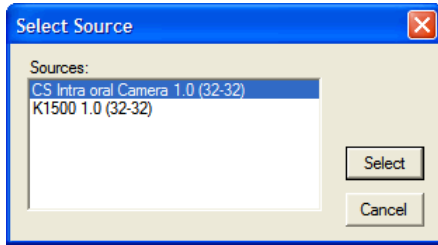
**Note:** This option does not apply to the KODAK Dental Imaging Software.

## Starting Imaging Software

To acquire an image using imaging software via TWAIN, follow these steps:

- 1 From your imaging software, such as Photoshop, open the **TWAIN** interface.  
For example, in Photoshop, go to **Import > Select Source**.

The **Select Source** window opens.




- 2 Select **CS Intraoral Camera 1.0 (32-32)**, then click **Select**.
- 3 Open the **Acquisition** interface using TWAIN interface; see the user guide of your imaging software.



**Note:** The software used for image acquisition must be compliant with TWAIN.



TWAIN has the following limitations:

- TWAIN does not support the video file or tooth comment within the **Acquisition** interface. The video file or tooth comment feature is disabled.
- After capturing images, click , to return to the imaging software interface. If the imaging software supports multiple image transfer, all images will be transferred. If the imaging software supports only one single image transfer, either the first or the last acquired image will be transferred.



**Note:** If the message “Camera setting changed, please restart your third party software.” appears, you must restart the software, then reopen the **Acquisition** interface.

## Setting Up Preferences

Set up your preferences before using the camera. To set up the preferences, see [“Setting up Preferences” on page 19](#).

You can now start capturing images.



# 6 Recording Video and Capturing Images on a Computer

## Preparing for Acquisition

### Preparing the Camera

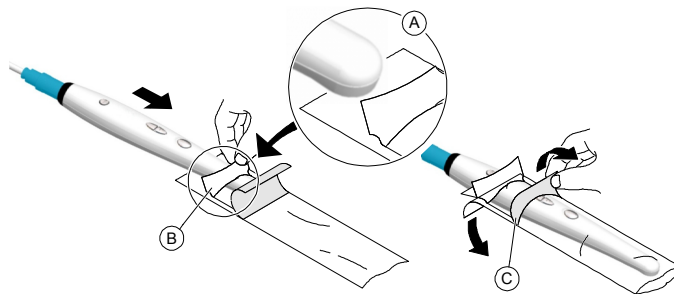
The protective sheath covers the camera and provides a sanitary shield for the patient. **Use a new protective sheath with each patient. Always discard the protective sheath after each use.** For additional protective sheaths, contact your dealer or the protective sheaths manufacturer.



**Important:** Only use the protective sheaths designed specifically for this camera.

To prepare the camera, follow these steps:

- 1 Make sure the window is clean by wiping it with a moist lint-free cloth or lens tissue.
- 2 Place the protective sheath, paper side down, on a flat surface.
- 3 With the camera window facing down (A), insert the camera all the way into the protective sheath between the protective sheath's white tab and paper backing (B).



- 4 Hold the protective sheath in place on the camera by gently pressing the white tab against the camera with your thumb or finger.
- 5 Pull the blue tab on the front of the protective sheath straight down away from the camera (C) until the paper backing is pulled away. Discard the paper backing, leaving the clear plastic protective sheath on the camera.
- 6 Adjust the protective sheath if necessary. The end should be tight to prevent fogging or blurring of the image.




**Note:** Installing the sheath incorrectly has a negative effect on image quality.

## Acquiring Live Video or Images

### Accessing the Acquisition Interface

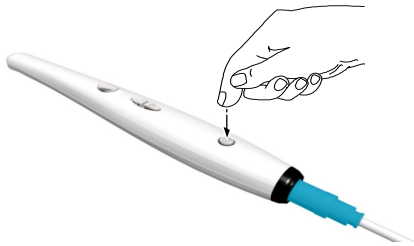
To access the **Acquisition** interface,


- If you use the KODAK Dental Imaging Software, click  in the **Imaging Window** of the KODAK Dental Imaging Software and select your camera.
- If you use imaging software via TWAIN interface, see the user guide of your imaging software to open **Acquisition** interface.

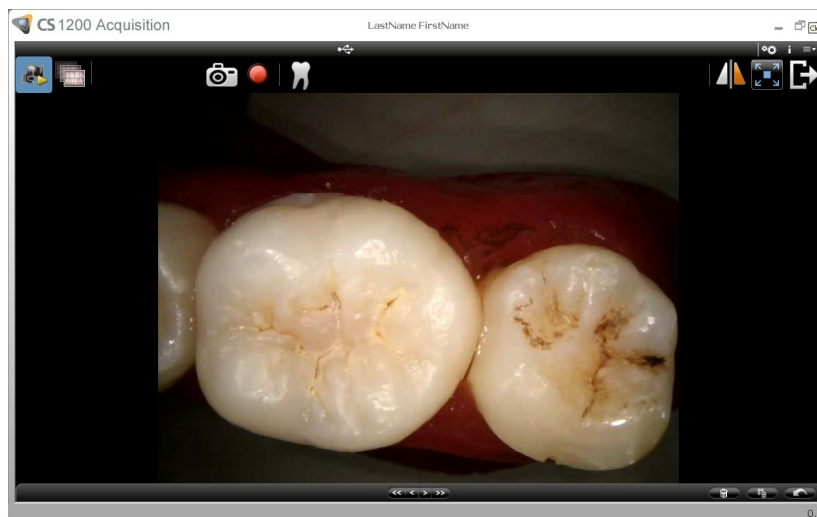
### Recording or Viewing a Video

To record or view a video, follow these steps:

- 1 Press the ON/OFF button 3 seconds to power on the camera.




- 2 Hold the camera over the area you want to view. Live video appears on the **Preview** screen.
- 3 To record the video, on the **Acquisition** interface, click  to record and click again to stop the recording.



The **Preview** screen of the **Acquisition** interface shows the video recording.

- 4 Use the video toolbar to view the recorded video (see ["Video Toolbar" on page 8](#)).
- 5 Use the image gallery toolbar to navigate, save, or delete the recorded video (see ["Image Gallery Toolbar" on page 9](#)).

- Click  to close the **Acquisition** interface and return to the imaging software interface.

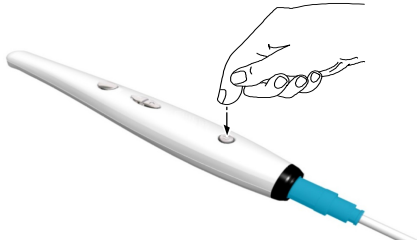
The recorded video will be permanently saved and displayed in the **Patient history**.

- Remove and dispose of the protective sheath.

## Capturing and Viewing Images

To capture or view an image, follow these steps:

- Press the ON/OFF button 3 seconds to power on the camera.

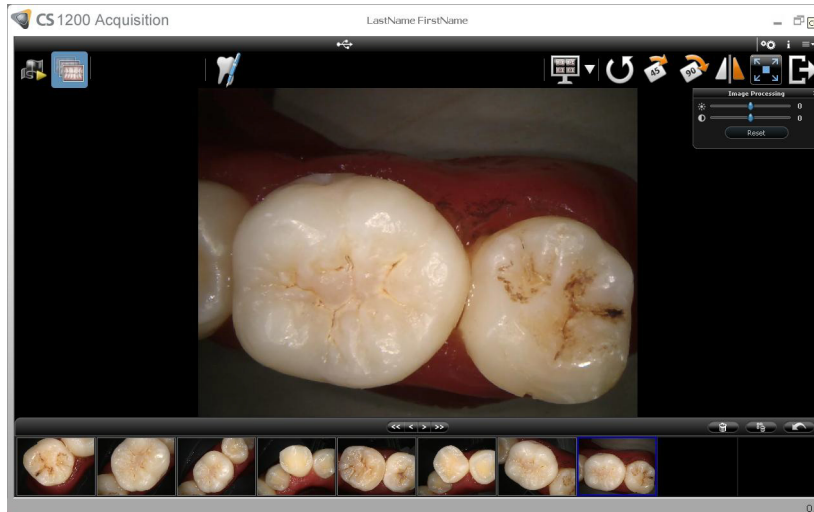



- Hold the camera over the area you want to view. Live video appears on the **Preview** screen.
- To capture an image:  
Press the Capture button on the camera.

OR

Click  on the **Acquisition** interface.

The **Review** screen of the **Acquisition** interface, shows the image.



- Click  to access the **Tooth Chart** dialog box and select the relevant tooth and write comments in the **Comments** field (see [“Tooth Chart Dialog Box”](#) on page 11).


The selected images are displayed and saved temporarily in the image gallery.

- Use the toolbar to view the image (see [“Image Toolbar”](#) on page 8).

- 6 Press the review button on the camera to review the images.

**OR**

Use the image gallery toolbar to navigate, save, or delete the images (see [“Image Gallery Toolbar” on page 9](#)).

- 7 Click  to close the **Acquisition** interface.

The images will be permanently saved and displayed in the **Patient history**.

- 8 Remove and dispose of the protective sheath.



**Note:** The camera automatically goes into sleep mode when inserted into the camera holder or left idle for 1.5 minutes. To use it again, pick it up or press the Capture button.



**Note:** When the camera is idle for more than an hour, it powers off.

# 7

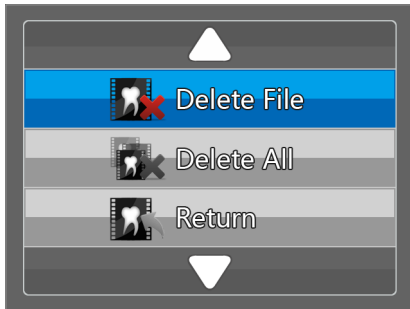
## Capturing Images on a Monitor and Transferring Images to a Computer

### Monitor Interface Overview

#### Delete File Dialog Box

The **Delete File** dialog box enables you to select delete options for the current image.

Figure 12 Delete File Dialog Box



**Delete File** button: Enables you to delete the current image.



**Delete All** button: Enables you to delete all images stored in the camera.

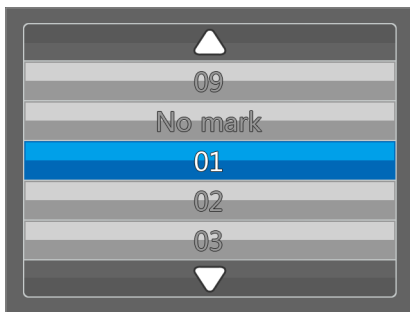


**Return** button: Returns to the review mode.

#### Patient Number Dialog Box

The **Patient Number** dialog box enables you to assign a number to each patient. The selected number is displayed on the monitor and on each image of that specific patient. At the same time, you can have a total of 9 patients.

Figure 13 Patient Number Dialog Box



## Preparing for Acquisition

### Preparing the Camera

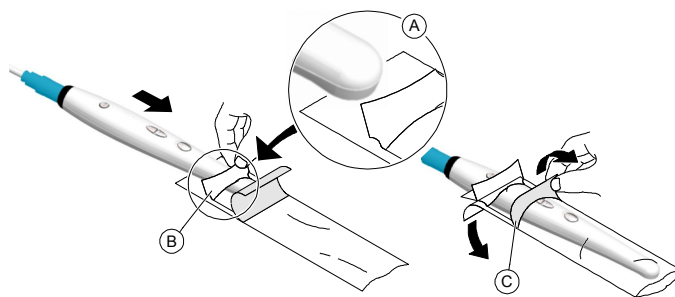
The protective sheath covers the camera and provides a sanitary shield for the patient. **Use a new protective sheath with each patient. Always discard the protective sheath after each use.** For additional protective sheaths, contact your dealer or the protective sheaths manufacturer.



**Important:** Only use the protective sheaths designed specifically for this camera.

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- 1 Make sure the window is clean by wiping it with a moist lint-free cloth or lens tissue.
- 2 Place the protective sheath, paper side down, on a flat surface.
- 3 With the camera window facing down (A), insert the camera all the way into the protective sheath between the protective sheath's white tab and paper backing (B).



- 4 Hold the protective sheath in place on the camera by gently pressing the white tab against the camera with your thumb or finger.
- 5 Pull the blue tab on the front of the protective sheath straight down away from the camera (C) until the paper backing is pulled away. Discard the paper backing, leaving the clear plastic protective sheath on the camera.
- 6 Adjust the protective sheath if necessary. The end should be tight to prevent fogging or blurring of the image.

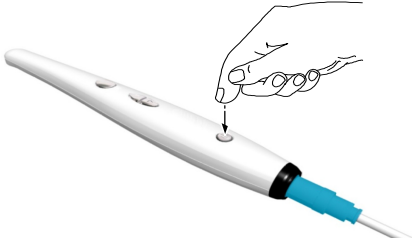


**Note:** Installing the sheath incorrectly has a negative effect on image quality.

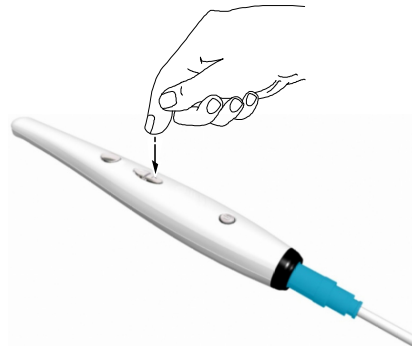
## Capturing, Viewing and Deleting Images

### Assigning a Number to a Patient

- 1 Press the ON/OFF button 3 seconds to power on the camera and the live video mode displays.



- 2 Press the review button for 3 seconds. The **Patient Number** dialog box is displayed.
- 3 Press the review button to assign a number to the patient.



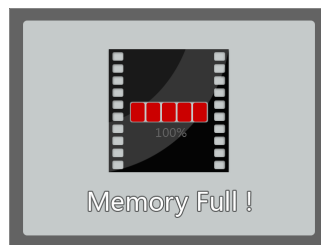
- 4 Press the Capture button to confirm the selection. The live video mode is displayed.

### Capturing Images

To capture an image, follow these steps:

- 1 Hold the camera over the area you want to view.
- 2 Press the Capture button on the camera to capture an image.

If you are prompted with the following message, you have to either delete images or transfer images to the computer.



For how to delete images, see [“Deleting Images” on page 29](#). For how to transfer images to the computer, see [“Transferring Images” on page 29](#).



**Note:** The camera can store up to 300 images.

- 3 Remove and dispose of the protective sheath when you have finished with the current patient.



**Note:** The camera automatically goes into sleep mode when inserted into the camera holder or left idle for 1.5 minutes. To use it again, pick it up or press the Capture button.

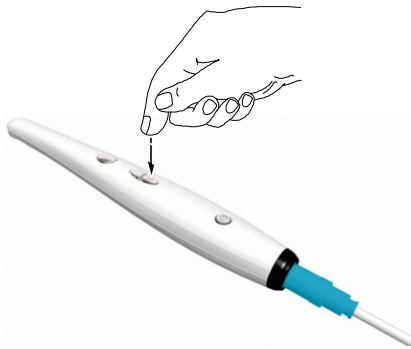


**Note:** When the camera is idle for more than an hour, it powers off.

## Viewing Images

To review images stored in the camera, follow these steps:

- 1 Press the Capture button to access the review mode.
- 2 Press the review button to review one by one all the stored images.



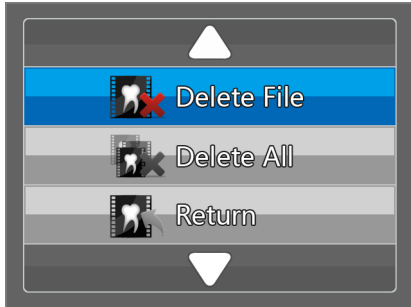
- 3 Press the Capture button again to return to the live video mode.



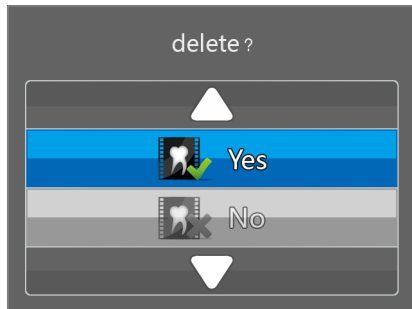
## Deleting Images

To delete images stored in the camera, follow these steps:

- 1 In the review mode, press the Capture button for 3 seconds. The **Delete File** dialog box is displayed.



- 2 Use the review button on the camera to select **Delete File** or **Delete All**, and press the Capture button. The **Delete** dialog box is displayed.




- 3 Select the **Yes** button, and press the Capture button on the camera.  
After deleting the image(s), the screen returns to the review mode.

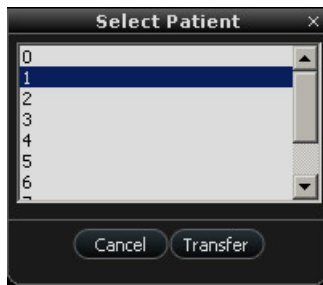
## Transferring Images

### Transferring Images to Acquisition Interface

To transfer images from the camera to the **Acquisition** interface in the computer, follow these steps:

- 1 Press the ON/OFF button 3 seconds to turn off the camera.
- 2 Disconnect the camera from the monitor and connect it to the computer which has the **Acquisition** interface.  
To connect the camera to the computer, see [“Connecting the Camera to a Computer” on page 15](#).
- 3 Press the ON/OFF button 3 seconds to turn on the camera.
- 4 In the **Imaging window**, click  and select your camera. The **Acquisition** interface is displayed.

- 5 On the **Acquisition** interface, click  **Transfer to Software** button. The **Select Patient** dialog box displays.



- 6 Select the patient number and click **Transfer**.

After the transferring is completed, the images are deleted automatically from the camera.


## Transferring Images to the Computer Hard Disk

To transfer images from the camera to the computer hard disk, follow these steps:

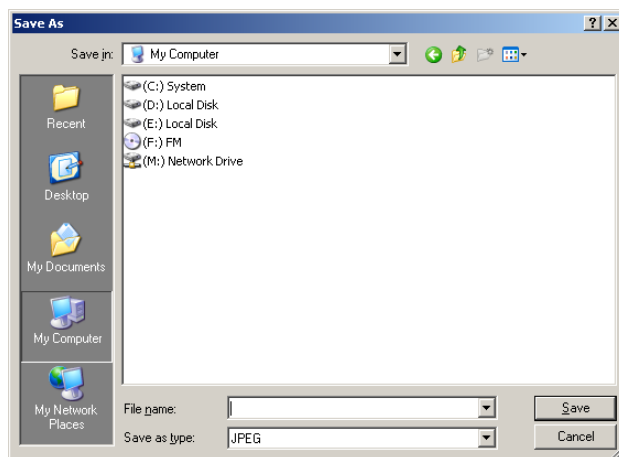
- 1 Press the ON/OFF button 3 seconds to turn off the camera.
- 2 Disconnect the camera from the monitor and connect it to the computer which has the **Acquisition** interface.

To connect the camera to the computer, see [“Connecting the Camera to a Computer” on page 15](#).

- 3 Press the ON/OFF button 3 seconds to turn on the camera.

- 4 In the **Imaging window**, click  and select your camera. The **Acquisition** interface is displayed.

- 5 On the **Acquisition** interface, click  **Transfer to Hard disk** button. The **Save as** window is displayed.



- 6 Select a folder or create a new folder to save the images. Click **Save**.

After the transferring is completed, the images are deleted automatically from the camera.

# 8 Maintenance

Perform the following maintenance activities on your camera and accessories regularly.

The camera is not delivered in disinfected condition. To ensure maximum hygienic safety for the patient, carefully follow the instructions to disinfect the camera before use (see [“Cleaning and Disinfecting the Camera”](#) ).



**Important:** Before following the maintenance instructions, make sure that you have read the **Safety Sheet** and the **Safety and Regulatory guide**.

## Cleaning and Disinfecting the Camera

### General Warnings



#### **WARNINGS:**

- Read and follow the warnings and personal protection instructions provide in the Material Safety Data Sheet (MSDS) of the disinfectant before use.
- The disinfectant should be approved by the applicable competent authority for use on a dental medical device.
- You must wear gloves while handling and using the camera.
- Always protect the camera with a hygienic barrier sheath before use.
- The camera must be disinfected with an EPA-registered intermediate-level disinfectant solution with tuberculocidal activity between patients.
- **DO NOT** use a disinfectant containing phenolics or iodophors, doing so will damage the surface coating of the camera.
- Never put the camera in a sterilizing device or immerse it completely.
- Excessive fluids can damage the camera.
- Not protected against water spray.

## Cleaning the Camera

If the camera is visibly contaminated with blood and/or body fluids, you must clean the camera before disinfecting it.

To clean the camera, follow these steps:

- 1 Dampen (**not soaked**) a lint-free cloth with lukewarm water.
- 2 Remove the blood and/or body fluids with the dampened lint-free cloth.

## Disinfecting the Camera

Before each patient, the camera must be thoroughly disinfected.

To adequately disinfect the camera, follow the disinfectant manufacturer's instructions for the appropriate contact time.



**Important:** If the camera is visibly soiled, it must be thoroughly cleaned prior to disinfecting, see [“Cleaning the Camera”](#).

To disinfect the camera, follow these steps:

- 1 Remove the protective sheath.
- 2 Remove all visible soil (see [“Cleaning the Camera”](#)).
- 3 Dampen (**not soaked**) a lint-free cloth with 0.525% sodium hypochlorite or use a 1/10 dilution of 5.25% sodium hypochlorite or household bleach (for example, if in the USA, use GLUCO-CHLOR wipes).
- 4 Wipe thoroughly all surfaces of the camera.



**WARNING:** Do not rinse.

- 5 Allow to dry in the open air for a minimum of 5 minutes.

## Visually Inspecting the Camera for Damage

Visually inspect the camera for signs of deterioration, such as the buttons or the cable. If damage is noted, do not use the camera and contact your representative.

# 9

## Technical Specifications

### Manufacturer

Carestream Health, Inc.  
150 Verona Street  
Rochester,  
New York - USA 14608

### Model

CS 1200 Wired

### Technical Specifications

Components	Technical Specifications
<b>Camera</b>	
Sensor technology	<ul style="list-style-type: none"><li>1/2.5 inch CMOS</li><li>Effective pixels: 5 M</li></ul>
Resolution	<ul style="list-style-type: none"><li>image: 1024 x 768 pixels</li><li>Video: 640 x 480 pixels</li></ul>
Lighting	<ul style="list-style-type: none"><li>White LEDs</li></ul>
FOV	80°
Focus range	3 mm - 25 mm
Connecting cable length	3 m
Connection: Computer	USB 2.0 high speed
Connection: Monitor	S-Video; AV
Output impedance	75 ohm
Dimension	207 x 29x 22 mm
Weight of camera without cable	60 g
<b>Environment</b>	
Operating temperature	+5 ~ +40 °C
Transportation and storage temperature	-10~60 °C
Operating Relative humidity	10 ~ 85% RH
Transportation and Storage Relative Humidity	10 ~ 95% RH
Operating Atmospheric pressure	700-1060 hPa
Transportation and Storage Atmospheric Pressure	600-1060 hPa

