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1 Safety and Regulatory Information

The information contained herein is based on the experience and knowledge relating to the subject matter gained by Carestream Health, Inc. prior to publication. No patent license is granted by this information. Carestream Health, Inc. reserves the right to change this information without notice, and makes no warranty, express or implied, with respect to this information. Carestream Health shall not be liable for any loss or damage, including consequential or special damages, resulting from any use of this information, even if loss or damage is caused by Carestream Health's negligence or other fault.

Conventions used in this manual

⚠️ CAUTION:

Caution points out procedures that you must follow precisely to avoid damage to the system or any of its components, yourself or others, loss of data, or corruption of files in software applications.

---

Note

Notes provide additional information, such as expanded explanations, hints, or reminders.

Important

Important highlights critical policy information that affects how you use this manual and this product.
General Safety Guidelines

- This product is designed and manufactured to ensure maximum safety of operation. Operate and maintain it in strict compliance with the safety precautions and operating instructions contained in this manual.

- This product meets all the safety requirements applicable to medical equipment. However, anyone attempting to operate the system must be fully aware of potential safety hazards.

- There are no user serviceable parts in this system. The product must be installed, maintained, and serviced by qualified service personnel according to procedures and preventive maintenance schedules in the product service manual. If your product does not operate as expected, contact your Service Representative.

- Do not modify this product in whole or in part without prior written approval from Carestream Health, Inc.

- Personnel operating and maintaining this system should receive training and be familiar with all aspects of operation and maintenance.

- To ensure safety, read all user manuals carefully before using the system and observe all Caution, Important and Note callouts located throughout.

- Keep this manual with the equipment.

- Reading this manual does not qualify you to operate, test, or calibrate this system.

- Unauthorized personnel are not allowed access to the system.

- If the product does not operate properly or fails to respond to the controls as described in this manual:
  - Follow the safety precautions as specified in this manual.
  - Stop using the system and do not make or authorize any changes to it.
  - Immediately contact your Service Representative, report the problem, and await further instructions.

- Use only legally marketed cassettes. Periodically check the cassette quality and replace if any defects are apparent.

- The images produced by this system are intended as tools for the trained user. They are explicitly not to be regarded as the sole and incontrovertible basis for clinical diagnosis.

- Be aware of the product specifications and of system accuracy and stability limitations. Consider these limitations before making any decision based on quantitative values. If you have any doubts, consult your Sales Representative.

- This system is Class 1 continuously operated stationary equipment without applied parts and has one signal input/output part.
Electrical Hazards

⚠️ CAUTION:
Do not remove or open system covers or plugs. Internal circuits use high voltage capable of causing serious injury. Fuses blown within 36 hours of being replaced by a qualified technician may indicate malfunctioning electrical circuits within the system. Have the system checked by qualified service personnel. Do not attempt to replace any fuse. Fluids that seep into the active circuit components of the system may cause short circuits that can result in electrical fires. Therefore, do not place any liquid or food on any part of the system.

Explosion and Implosion Hazards

⚠️ CAUTION:
Do not operate the equipment in the presence of explosive liquids, vapors, or gases. Do not plug in or turn on the system if hazardous substances are detected in the environment. If these substances are detected after the system has been turned on, do not attempt to turn off the unit or unplug it. Evacuate and ventilate the area before turning off the system.

Overheating

Do not block air circulation around the unit. Always maintain at least 6 inches (15 cm) clearance around the unit to prevent overheating and damage to the system.

Recycling the Unit

In the European Union, this symbol indicates that when the last user wishes to discard this product, it must be sent to an appropriate facility for recovery and recycling.
Labeling Summary

Safety Labels
LASER
Laser-emitting product

CLASS 3B LASER PRODUCT INSIDE UNIT

HIGH VOLTAGE

CHASSIS GROUND STUD

IEC Symbols Used

The system may have labels with one or more of the following symbols.
Caution — consult accompanying documents

Power ON

Power OFF

Caution — Electrical shock hazard
Device-Specific Safety Information

LIFTING HAZARD
The Kodak CR 7400 digital radiography unit weighs 18 kg (39.6 lb). Do not try to lift the unit by yourself. Always seek assistance from another person. Lifting equipment that is too heavy may result in serious injury and/or damage to equipment.

Laser Safety Instructions

⚠️ CAUTION:
The Kodak CR 7400 digital radiography system is a CLASS 1 Laser product.

- During normal operation, always keep the unit enclosed in its protective cover to prevent the outside area from being exposed to laser radiation.
- During normal operation, do not remove the cover. Only authorized service personnel may remove the cover.
- Do not operate the system while the access door is open.

⚠️ CAUTION:
Laser radiation when cover is removed. Avoid direct exposure to beam. Class 3B laser inside.

Regulatory Information


This device complies with 21CFR 1040.10. This device bears the UG mark.

CE Conformity

This product conforms to the requirements of EU Council Directive 93/42/EEC and meets UL standards and requirements.

The Kodak CR 7400 digital radiography system is a Class I medical device. The CR 7400 system bears the following mark of conformity:

Authorized European Representative:
Carestream Health Deutschland GmbH
Product Safety
Hedelfingerstr, 60
70327 Stuttgart, Germany
Telephone: 49-711-406-2993

This system has received FDA clearance for sale in the USA.
U.S. Regulations

⚠️ CAUTION:
US federal law restricts this device to sale by or on the order of a physician.
2 System Overview

The Kodak CR 7400 digital radiography system is designed for reading photostimulable phosphor (PSP) plates in dental, orthodontic, and oral surgery applications. The system is composed of two main parts:

- The Kodak CR 7400 unit
- The CR 7400 scanning program (user interface), which should be installed in the host computer that runs the unit. The user interface can be launched from other vendor software packages.

Unit Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Function</th>
</tr>
</thead>
</table>
| Unit access door | • Allows access to the drum  
                  • An automatic locking mechanism prevents the door from opening during operation |
| Status LED       | Three-color Light Emitting Diode (LED) indicates the status of the unit                    |
| **LED status**   | **Meaning**                                                                                 |
| Green            | Unit is idle and ready for use                                                               |
| Green blinking   | Scanning or erasing                                                                           |
| Orange           | Error is detected                                                                             |
| Orange blinking  | Unit is powering up                                                                           |
| Red              | Unit access door was opened while drum rotation motor was operating                         |
| Drum             | Holds the plate holders during scanning and erasing                                           |
| Latches          | Attach the plate holder to the drum                                                           |
KODAK CR 7400 System — front view

KODAK CR 7400 System — back view

KODAK CR 7400 System — drum view
3 Using the KODAK CR 7400 Digital Radiography System

This section provides instructions for reading a plate with the Kodak CR 7400 digital radiography system.

Scanning consists of:
- Verifying the prerequisites for scanning
- Attaching the plate holder to the drum
- Setting up the user interface
- Scanning the plate
- Ending the scanning process

Prerequisites

Before scanning, make sure that:
- The unit is positioned on a flat and stable surface.
- The USB cable connecting the computer to the unit is firmly attached.
- The unit is connected to an AC power source and powered on.
- The system driver was configured during installation.
- The drivers and the Kodak CR 7400 system user interface are installed.
- The status LED is green.
- The holder is properly positioned and latched.
- The unit access door is closed.
- An uninterrupted power supply (UPS) is installed to insure that images are not damaged or lost in the event of power failure.
Operating the System with a Panoramic or Cephalometric Holder

Taking the X-ray

Use the Kodak CR imaging plate in place of regular x-ray film.

⚠️ CAUTION:
The plate is reusable. Handle with care. See Section 6 for care and maintenance.

⚠️ CAUTION:
To prevent damage to the image, remove any intensifying screens from the cassette before inserting the plate. To prevent any damage to the plates, remove any glue.

1. Load the plate into the cassette as shown below. Note that the white side of the plate faces down.

Loading the plate into the cassette

2. Fold the black end tabs of the plate so that the printed side is facing you, and close the cassette cover. In this position, the phosphor side faces the x-ray machine aperture.

Folding the end tabs before closing the cassette

3. Load the cassette into the x-ray machine slot and take the x-ray exposure in the usual manner.
Loading the Extraoral Holder onto the Drum

**Note**

Do not expose the plate to any more light than necessary since excessive exposure to light will degrade the image.

**Note**

The unit access door cannot be opened while the unit is operating. Do not force the door open.

**CAUTION:**

Do not operate the unit without a plate holder.

1. After you expose the plate, open the unit access door.
2. Remove the plate holder from the cassette.
3. Push up the black latch on the drum with your thumb.
4. Place the hole in one end of the plate holder over the securing pin as shown below with the printed side of the black tabs facing up.

5. Release the latch.
6. Slowly rotate the drum upward.
7. Push the spring-loaded tab of the red latch upward and align the pin with the hole in the other end of the plate holder.

8. Manually rotate the drum slowly to make sure it rotates freely. Be careful not to scratch the plate.
9. Close the unit access door and perform the scan. (See Section 5.)
Operating the System with an Intraoral Holder

⚠️ CAUTION:
The plate is reusable. Handle with care. See Section 6 for care and maintenance.

Taking the X-ray

The intraoral plates are used like regular film and are supplied in the same sizes. To avoid contamination, be sure to change your gloves after you remove the barrier envelope.

1. Write the corresponding tooth number(s) on the white printed side of the light protection pouch with a permanent marker.
   - If using a Kodak intraoral #1 (10)-#2 (12) holder, number the #2 pouches from 1-12, and number the #1 pouches from 13-22.
   - If using a Kodak intraoral #2 (18)-#3 (4) holder, number the #2 pouches from 1-18, and number the #3 pouches from 19-22.

2. Insert the plate into the protective pouch.
   Make sure that the orientation mark and plate number imprinted on the plate are inserted to match the marks on the pouch.
   Make sure that the blue side of the plate faces away from the printed side of the pouch. The blue side must face the x-ray aperture.

3. Remove the protective tape from the sticky edge of the envelope and seal the envelope shut.

4. Position the plate in the patient's mouth with the orientation mark in the same manner as you position film.

5. Take the x-ray.
   - If taking a Full Mouth Series (FMS), the image in pouch #1 is displayed in box 1 in the FMS mount, the image in pouch #2 is displayed in box 2, and so on.

6. Tear open the clear envelope and drop the pouch on the tray. Remove any residue from the pouch. Do not remove the plate from the pouch. If you have multiple envelopes, repeat this step.

7. Remove your gloves.

8. Load the intraoral holder onto the drum as shown in the following section.
Loading the Intraoral Holder onto the Drum

Important
Use a holder that accommodates the size and number of plates being scanned.

⚠️ CAUTION:
Do not operate the unit without a plate holder.

1. Open the unit access door and push up the latch with your thumb.
2. Place the end tab of the unmarked black end of the holder over the securing pin. Make sure the tab is under the latch plate and the number side of the holder faces out.

3. Release the latch and slowly rotate the drum upward.
4. Push the spring-loaded tab of the red latch upward and align the pin with the hole in the other end of the holder.
5. Release the latch.
6. Manually rotate the drum slowly to make sure it rotates freely. Be careful not to scratch the plates.

7. Insert the plate into a holder while on the drum as shown in the following section.
Inserting a Plate into a Holder while on the Drum

**CAUTION:**
To ensure image quality, do not expose the plate to excess light.

1. After loading the holder onto the drum, remove the plate from the pouch and insert it into a pocket of the same size on a suitable holder.

2. Hold an intraoral plate by its edge, insert it into the appropriate cutout in the holder, making sure that it is seated securely. *Make sure that the blue side faces outward and the orientation mark is on the top.*

   If taking a FMS, line up the numbered pouches so they correspond with the numbered pockets on the holder and load the plates onto the holder pocket with the corresponding number. Load the holder onto the drum.

3. Load all the plates that you want to scan.
   Make sure the printed side is facing down.

4. Inserting a plate into a holder

   4. Close the unit access door.

   5. Perform the scan as described in “Performing a Scan”.

**Important**
To maintain the balance of the rotating drum, insert at least 12 plates into holders #1-#2 and #2-#3, filling up at least two rows. If you do not take this many exposures, use unexposed plates to fill the holder. For other holders, fill as few as one plate.
4 Plate Holders and Available Scans

Extraoral Holders

- **Cephalometric 8" x 10"
  - Description: Holds one plate

- **Cephalometric 18 x 24 cm
  - Description: Holds one plate

- **Panoramic 5" x 12"
  - Description: Holds one plate

- **Panoramic 15" x 30"
  - Description: Holds one plate
Intraoral Holders

Intraoral #0(2) - #1(2) - #3(2) - #4(2)

Description: Holds two plates each of #0, #1, #3, and #4
Available scans: One plate each of #0, #1, #3, or all plates at once

Intraoral #0(6) - #2(6)

Description: Holds six plates each of #0 and #2
Available scans: Up to six #2 plates, six #0 plates, or all plates at once
Important

When using the holders below (2+3 and 1+2), you must insert a minimum of 12 plates, filling two rows, to insure that the rotating drum remains balanced.

Intraoral #2(18) - #3(4)

Description: Holds eighteen #2 plates and four #3 plates
Available scans: Twelve #2 plates; eighteen #2 plates; all plates at once

Note

Must load a minimum of 12 plates.

Intraoral #1(10) - #2(12)

Description: Holds twelve #2 plates and ten #1 plates
Available scans: Twelve #2 plates; twelve #2 and five #1 plates; all plates at once

Note

Must load a minimum of 12 plates.
5 Scanning

Performing a Scan

Access the user interface from the dental imaging software.

1. In the Kodak dental imaging software, click CR. The Acquisition window is displayed. Click Room.
   The room selection buttons appear, showing the available rooms in the clinic.
2. Select the x-ray room that was used.
   The room button lights up and the room appears on the selection screen to the left of the buttons.

Note
To acquire a FMS, select a FMS template, then click CR.

3. Choose an image type: Intraoral or Extraoral. The types of holders appear in the row.

Note
For Panoramic or Cephalometric plate holders, select Extraoral.
For a FMS, select Intraoral.
4. Select the holder.

5. The available scans appear in the row below the holders. Select a scan from the available scans. Be sure to select the correct scan in accordance with the loading plates on the holder. See Section 3.

6. Select a resolution. **High Resolution** scans at a lower speed; **High Speed** scans at a lower resolution.

7. Press the **Scan** button. You can see the progress of the scan on the **Preview** screen. The plates are scanned and the images are transferred to the dental imaging software.

After the scan is complete, the plates are automatically erased and are ready to be used again. While the plates are being erased, the unit door cannot be opened. The settings you used for this scan are saved and will appear the next time the user interface is opened.
Removing the Holder

Note
If you are scanning another image, leave the holder on the drum until you are done scanning images.

1. Open the unit access door.
2. Remove the plates from the holder and place them in new pouches.
3. Release the second (red) latch.
4. Pull the holder gently to rotate the drum.
5. Remove the holder from the unit.
6. Extraoral only - store the plate holder in its original cassette for later use.
6 Care and Maintenance

System

- Protect the unit from excessive heat, cold, and humidity.
- Place the unit on a level and stable surface at a comfortable height for use.

⚠️ CAUTION:

To prevent electrical shock to personnel or damage to the unit, always turn off and unplug the unit before cleaning it.

Important

Do not use powdered gloves when handling the unit, holders, pouches, or plates, or when cleaning the unit.

- Clean the outside of the unit with a damp paper towel or soft cloth using a mild, non-abrasive household cleaner.
- Do not spray cleaner directly onto the unit.
- Do not use cleaner on the inside of the unit.
- Do not allow cleaner to drip into the unit.
- Allow the unit to dry completely before plugging it in.

KODAK CR Imaging Plate Care and Handling

If used with care, Kodak CR imaging plates may be used repeatedly. However, the plates will show some wear over time due to regular use. Inspect the plates regularly and replace them if they show signs of scratches or excessive wear.

Handling and Storage

- Store plates in their original package or in an x-ray cassette when not in use.
- Do not expose the plates to light for long periods as this can degrade quality.
- Do not fold, crease, or bend the plates.
- Avoid touching the phosphor side of the plate.
- Do not drag the phosphor side of the plate across any surface to avoid scratching it.
- Do not leave the plates where they can become damaged by liquid or chemical spills.

Disposal

This plate, when discarded, is considered to be hazardous waste (EPA waste code D005) under the Resource Conservation and Recovery Act (RCRA) due to the leachability of barium. Hazardous waste must be managed and transported in accordance with federal, state, and local regulations. Contact your local authorities for more information. For further information concerning these products, inside the United States call Carestream Health, Inc. at 1-800-242-2424 or if outside the United States, write to Carestream Health, Inc. in your country.
Warranty

Kodak CR imaging plates will be replaced within 30 days only if found to be damaged upon receipt and if box seals are intact.

Cleaning

- Use Kodak MIN-R screen cleaner wipes to clean the plates.
- Do not soak in disinfectant solutions. Do not autoclave; autoclaved plates must be discarded.

⚠️ CAUTION:
Read and follow the instructions in the Kodak MIN-R screen cleaner wipes Material Safety Data Sheet (MSDS) prior to use.

For disinfecting the CR imaging plate, a wide range of commercially available intermediate level disinfectants (towelettes/sprays) are acceptable, and include those which may contain the following active ingredients:

- Isopropanol (<35%), and/or ethanol (<15%) with quaternary ammonium salt (<1%)  
- Parachlorometaxylenol (PCMX 0.2%)  
- Hydrogen peroxide (<1.5%)  
- Phenol based (<1.6% phenolic compounds)  
- Sodium hypochlorite towelettes (<0.52%) or dilute bleach/water solutions (<1%)

⚠️ CAUTION:
Read and follow the instructions in the Material Safety Data Sheet (MSDS) for commercially available intermediate level disinfectants prior to use.

Envelopes and Pouches

- Do not re-use envelopes. Discard after each use.
- Do not re-use pouches. Discard after each use.
- To ensure the best quality results, always enclose imaging plates in a white pouch and transparent envelope before placing it in a patient’s mouth.
  - The white pouch protects the plates from light.
  - The transparent envelope protects the plates from contamination.
7 Troubleshooting

System

If the system or user interface does not operate, check:
• Power cord connection
• USB cable connection
• Power switch is on
• Software is properly installed

System Information

For information about the system and user interface:
1. Open the user interface.
2. Click the Info icon.
3. Select About.

Error Messages

If the recommended action does not solve the problem, or a different error message appears, contact your Service Representative.

<table>
<thead>
<tr>
<th>Error Message</th>
<th>Recommended Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Close the unit door</td>
<td>Make sure the door is closed.</td>
</tr>
<tr>
<td>Door not locked</td>
<td>Make sure the door is closed.</td>
</tr>
<tr>
<td>Attach holder to the drum</td>
<td>Do not try to operate without a holder attached to the drum. If a holder is attached, remove the holder and attach it again.</td>
</tr>
<tr>
<td>Error Message</td>
<td>Recommended Action</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------------------------------------------------------</td>
</tr>
<tr>
<td>Holder sensor is not working.</td>
<td>If a holder is attached, remove the holder and attach it again.</td>
</tr>
</tbody>
</table>
# Technical Information and Specifications

Visit [www.kodakdental.com](http://www.kodakdental.com) for the latest hardware specifications for the Kodak CR 7400 digital radiography system and related components.

<table>
<thead>
<tr>
<th>Theoretical Resolution</th>
<th>Panoramic/Cephalometric</th>
<th>&lt;10 lp/mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Intraoral</td>
<td>&lt;20 lp/mm</td>
</tr>
<tr>
<td><strong>True Image Resolution</strong></td>
<td>Panoramic/Cephalometric</td>
<td>Standard resolution – 4.5 lp/mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High resolution – 6 lp/mm</td>
</tr>
<tr>
<td></td>
<td>Intraoral</td>
<td>Standard resolution – 8 lp/mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High resolution – 10 lp/mm</td>
</tr>
<tr>
<td><strong>Plate Size</strong></td>
<td>Panoramic</td>
<td>5&quot; x 12&quot; / 15 cm x 30 cm</td>
</tr>
<tr>
<td></td>
<td>Cephalometric</td>
<td>8&quot; x 10&quot; / 18 x 24 cm</td>
</tr>
<tr>
<td></td>
<td>Intraoral</td>
<td>#0 - 21 x 31 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#1 - 24 x 40 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#2 - 31 x 41 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#3 - 27 x 54 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>#4 - 57 x 76 mm</td>
</tr>
<tr>
<td><strong>Scan Time</strong></td>
<td>Panoramic</td>
<td>74 seconds</td>
</tr>
<tr>
<td>Time may vary based on number of plates scanned</td>
<td>Cephalometric</td>
<td>95 seconds</td>
</tr>
<tr>
<td></td>
<td>Intraoral - High Resolution</td>
<td>67 seconds (average 10.2 seconds per image)</td>
</tr>
<tr>
<td></td>
<td>Intraoral - High Speed</td>
<td>40 seconds (average 6.7 seconds per image)</td>
</tr>
<tr>
<td></td>
<td>FMS - High Resolution</td>
<td>Up to 255 seconds</td>
</tr>
<tr>
<td></td>
<td>FMS - High Speed</td>
<td>Up to 135 seconds</td>
</tr>
<tr>
<td><strong>Plate Erasing</strong></td>
<td>Automatic - built-in erase lamps (manual erase available)</td>
<td></td>
</tr>
<tr>
<td><strong>Plate Type</strong></td>
<td>Kodak CR imaging plates for intraoral/extraoral</td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions (W x D x H)</strong></td>
<td>18.9&quot; x 15&quot; x 9.5&quot; (48 cm x 38 cm x 24 cm)</td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>39.6 lbs. (18 kg)</td>
<td></td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>100-240 VAC / 50/60 Hz 2 A; external surge protector UPS strongly recommended</td>
<td></td>
</tr>
<tr>
<td><strong>Environmental Operating Conditions</strong></td>
<td>Temperature: 18 - 30°C, 64 - 86°F</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Relative Humidity: 85% (max) non-condensing</td>
<td></td>
</tr>
<tr>
<td><strong>Storage Conditions</strong></td>
<td>Temperature: 15 - 60°C; 59 - 140°F</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Relative Humidity: 80% (max) non-condensing</td>
<td></td>
</tr>
<tr>
<td><strong>Daylight Operations</strong></td>
<td>Avoid keeping unit near windows or direct light source</td>
<td></td>
</tr>
</tbody>
</table>
| Embedded Laser Specifications | Visible Light Output: 635-650 nm (class 3b)  
|                             | Output Power: up to 20 mW |
| PC Requirements             | Carestream Health, Inc. has designed the system to interface with most standard PC computer models. However, since actual setups may include various hardware and software components, it is recommended to have computer selection authorized by a network service provider or authorized service provider. Visit www.kodakdental.com for the most recent hardware specifications. |