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Kodak Point-of-Care CR 120/140/260/360 Scanners Software Installation QC Version 3.0.0



When doing the procedures in this document, you must use safe work practices and wear the correct Personal Protective Equipment (for example, SAFETY EYEWEAR) according to your Company's Standard Operating Procedures.



Kodak QC Software Installation

Document Number 6H9811

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CE

Use of Manual

The *Kodak* Point-of-Care CR System is designed to meet international safety and performance standards. Personnel operating the unit must have a thorough understanding of the proper operation of the system. This manual has been prepared to aid medical and technical personnel to understand and operate the system. Do not operate the system before reading this manual and gaining a clear understanding of the operation of the system. If any part of this manual is not clear, please contact your Carestream Health representative for clarification.

Authorized European Representative

Carestream Health France LES MERCURIALES 40, rue Jean Jaures 93176 BAGNOLET CEDEX France

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Carestream Health, Inc. 150 Verona Street Rochester, NY 14608

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Section 1: Safety and Regulatory Information

Introduction

The information contained herein is based on the experience and knowledge relating to the subject matter gained by Carestream Health prior to publication. No patent license is granted by this information.

Carestream Health 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.

Document Conventions

In this document the Kodak Point-of-Care CR 120/140/260/360 System will be referred to as Point-of-Care CR.

Caution

Cautions point 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.



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.
- 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 Cautions, Importants, and Notes located throughout the manual.
- 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 unit and prevent any changes to it.
 - Immediately contact the service office, report the problem, and await further instructions.
- Use only legally marketed cassettes. Check periodically the quality of the cassettes, and replace if any defects are apparent.
- The images provided by this system are intended as tools for the trained user. They are explicitly not to be regarded as a sole 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 I continuous operated stationary equipment without applied parts and has one signal input/ output part.

Electrical Hazards



- 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

eCaution

- 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 of the unit or unplug it. Evacuate and ventilate the area before turning off the system.

Overheating

Do not block the 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 appropriate facilities for recovery and recycling.

Contact your local Carestream Health representative or refer to <u>http://recycle.carestreamhealth.com</u> or <u>http://www.carestreamhealth.com/go/recycle2</u> for additional information on the collection and recovery programs available for this product.

Device-Specific Safety Information

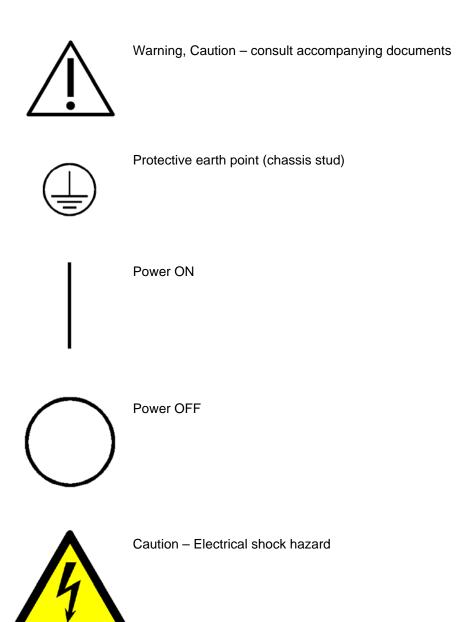


LIFTING HAZARD

The Point-of-Care CR 120/140/260 weighs 45 Kg (99 lb). The Point-of-Care CR 360 weighs 39 Kg (86 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.

IEC Symbols Used

The system may have labels with one or more of the following symbols. These symbols indicate the IEC standards to which the system conforms.



Laser Safety Instructions

Laser Warning

- The Point-of-Care CR 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 emission.
- During normal operation, do not remove the cover. Only a qualified technician may remove the cover to service this product
- Laser radiation when cover removed. Avoid direct exposure to beam. Class 3B laser inside.
- Do not operate the unit while the access door is open.

Regulatory Information

The Product conforms to the following safety standards: IEC 601-1 Medical Electrical Equipment General Requirements for Safety, EN60601-1-2 Medical Electrical Equipment Electro-Magnetic Compatibility Requirements and Tests, IEC 60825-1 Safety of Laser Products.

This device complies with 21CFR 1040.10.

CE Conformity

This product conforms to the requirements of council directive 93/42/EEC. The Point-of-Care CR is a Class I medical device. The Point-of-Care CR bears the following mark of conformity.



The name and address of the CE representative appears on the back of the front page of this manual.

Labelling Summary

| | Safety Labels |
|--------------------------|---------------------------------------|
| | Laser-emitting product |
| | Class 3B laser product inside unit |
| COANGERO HIGH VOLTAGE | High voltage |
| | Protective earth point (chassis stud) |

Definitions

| Term | Definition |
|----------|---|
| PC | Make sure that the PC you are using meets the requirements described in <u>"Computer Requirements" on Page 10</u> . |
| Kodak QC | The Software supplied with every Point-of-Care CR system. This software operates the CR system and is used for image acquiring and reviewing processes. |
| WIBU-KEY | License protection dongle. Without this dongle the <i>Kodak</i> QC application will not run. The dongle can be loaded with additional software options. |

Section 2: Packaging

The Point-of-Care CR is shipped in a custom designed box that protects the unit. If the Point-of-Care CR needs to be returned to Carestream Health or one of its dealers, the unit must be packed in its original box, and must include the software CD and the USB cable.

Closed Box



Use all the protective parts in the box to minimize the risk of damage to the unit.

Open Box



Section 3: Site Preparation

General

Inform the client about the site preparation requirements prior to installing the Point-of-Care CR scanner. Without these requirements being met, you cannot complete the installation, and the client's ability to use the Point-of-Care CR System properly cannot be guaranteed. It is recommended that you send the Pre-Installation form to the client prior to installation. See <u>"Installation Documentation" on Page 43</u>.

Computer Requirements

| PC: | | |
|--------------|------------------------|---|
| CPU | | Pentium 4 2.8 GHz minimum |
| RAM | | 1 GB (minimum) |
| Hard-Drive | | 80 GB |
| Operating \$ | System ^a | <i>Microsoft</i> Windows XP Pro + SP2, Vista Business + SP1 |
| Monitor: | | |
| Size | | 17 in. (minimum) |
| Resolution | | 1024 x 768 or 1280 x 1024 |
| Touch Scre | en is optional | |
| Ports: | | |
| 4 USB2 por | rts available | |
| Parallel por | ts | |
| Additional: | | |
| Network ad | lapter (for DICOM send | d) |

a. The Windows XP operating software must be installed according to the local language. (For Chinese and Japanese see <u>"Appendix A: Language Setting" on Page 45</u>)

Electrical Requirements

| Electrical requ | irements |
|--------------------------------------|----------------|
| Voltage | 100 - 240 V AC |
| Frequency | 50 - 60 Hz |
| UPS – Online | 700 V A |
| UPS connected to CR system, PC, Moni | tor |

Space Requirements

The Point-of-Care CR System should be positioned on a stable surface, with at least 20 cm (~ 8 in.) free space on every side of the unit. A USB cable will connect the Point-of-Care CR to the computer. The space requirements for the Point-of-Care CR Systems (including unit dimensions and additional space) are illustrated in the following figures.

Point-of-Care CR 360 System - Space Requirements



80 cm

Environmental Requirements

Temperature

Maintain the room temperature between 15° - 30°C (59° - 86°F); relative humidity 15 - 76% RH.

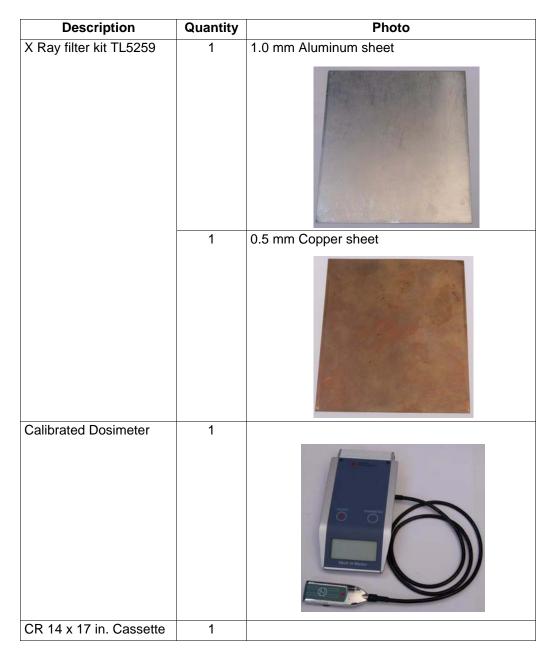
Light

The Point-of-Care CR is sealed and protected from light penetration. However, it is recommended to keep the Pointof-Care CR in standard room light, away from exposure to direct sunlight.

The Point-of-Care CR uses phosphor plates for acquiring images. The plates are sensitive to light, and therefore exposure to light should be kept to a minimum.

For optimal results, room light is recommended to be less than 1000 Lux.

Equipment Required



Section 4: Installation

This chapter explains the installation procedure of *Kodak* QC Version 3.0 Software for the Point-of-Care CR Systems. After completing the installation, fill out the Installation Report (See: <u>"Installation Report" on Page 44</u>.).

General

On-site installation of the *Kodak* QC Software should be performed by authorized technicians. Installation consists of the following steps:

- [1] Unpack the unit and position it in the desired location.
- [2] Verify the package contents matches the packing list and the order.
- [3] Install the Kodak QC Software.
- [4] Install the USB driver.
- [5] Test the system's functional operation.
- [6] Send a completed Installation Report to the Carestream Health service department. (See: <u>"Installation Report"</u> <u>on Page 44</u>.).

Note

The warranty will not be issued until the service department receives the installation report.

Installing Software

Installing Kodak QC Software

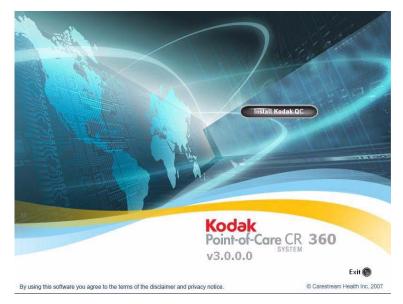
Note

It is recommended that any anti-virus software be disabled before installing the Kodak QC Software.

[1] Insert the QC Point-of-Care CD into the CD-Rom drive. The installation will start automatically.

Click on [Install Kodak QC].

Install Kodak QC



[2] Installation begins; the following message then appears: Click [OK].

Net Framework Installation Completed



[3] The InstallShield Wizard is now ready to install Kodak QC V3.0.0 on your computer. Click [Next] to continue.

InstallShield Wizard ready for installation



[4] Click [Next] to proceed.

Image file destination

| Kodak QC Point of Care 360 - InstallShield Wizard | |
|--|--------|
| Destination Folder | |
| Click Next to install to this folder, or click Change to install to a different folder | |
| Install Kodak QC Point of Care 360 to: | |
| C:\Program Files\Kodak\KodakQC\ | hange |
| Create Images Folder in: | |
| C:\Documents and Settings\All Users\Application Data\Kodak\KodakQC\Images\ | Change |
| | |
| | |
| tallShield | |
| < <u>Back</u> | Cancel |

[5] You can click [Back] to review your settings. Click [Install].

Click [Install]

| eady to Install the Program | | 1 | |
|--|----------------------|-----------------------------|--------------|
| The wizard is ready to begin installation | on. | | |
| Click Install to begin the installation. | | | |
| If you want to review or change any exit the wizard. | of your installation | n settings, click Back. Cli | ck Cancel to |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| allShield | | | |
| | | | |

[6] Set the following Configuration options:

(a) Select Table Top or Z-Cart according to whether the unit will be positioned on a flat surface or installed in a Z-Cart at 60°.

Note

If you are not sure what to select, select Z-Cart.

(b) Select the Setup Type. Full Kodak QC installation is the default setting.

D Note

Light QC will also be operational with full version installation.

(c) Click [Next] to continue.

Configuration options

| Select from the option bellow: C Table Top C Z-Cart(60d) Select from the option bellow: | |
|---|--|
| C Z-Cart(60d) | |
| | |
| Select from the option bellow: | |
| | |
| C Full Kodak QC installation | |
| C Light QC installation | |

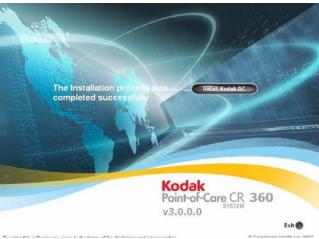
[7] Click [Finish] to exit the InstallShield Wizard

Exit the Setup Wizard



[8] Installation process completed. Click [Exit].

Installation process completed



Note

If Windows Vista operating system is being used, reboot the computer when prompted at the end of the installation.

Installing the System Driver

Connecting the Cables

- [1] Connect the power cable from the Point-of-Care CR to the power outlet.
- [2] Connect one end of the USB cable to the USB2 port of the PC, and the other end to the Point-of-Care CR.

Installing the Drivers

[1] Turn on the Point-of-Care CR. The system makes an initialization tone and the Installation Wizard Screen appears.

Choose No, not this time and then click [Next].

Found New Hardware Wizard screen

| Found New Hardware Wiz | ard |
|------------------------|--|
| | Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy Can Windows connect to Windows Update to search for software? |
| | ○ Yes, now and every time I connect a device ● No, not this time |
| | Click Next to continue. |
| | < Back Next > Cancel |

Note

If the Installation Wizard does not appear automatically, go to **Device Manager>Imaging Devices>USB Device>Update Driver** to initiate the installation procedure.

[2] Select Install from a list or specific location (Advanced), and then click [Next].

Choose installation source

| Found New Hardware Wiza | ard |
|--|--|
| | This wizard helps you install software for: Kodak Point of Care 120/140 If your hardware came with an installation CD or floppy disk, insert it now. What do you want the wizard to do? |
| | Install the software automatically (Recommended) |
| States and a state of the state | Install from a list or specific location (Advanced) |
| Sector Sector Sector | Click Next to continue. |
| | < <u>₿</u> ack <u>N</u> ext > Cancel |

[3] Select **Search for the best driver in these locations**, and click [Browse] to display your CD-ROM drive. Choose E:\Driver (where E: is the CD-ROM drive).

Choose the CD-ROM drive

| Found New Hardware Wizard |
|--|
| Please choose your search and installation options. |
| • Search for the best driver in these locations. |
| Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed. |
| Search removable media (floppy, CD-ROM) |
| ✓ Include this location in the search: |
| E:\PoC 140 2.5\Driver Srowse |
| O Don't search. I will choose the driver to install. |
| Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware. |
| |
| < <u>Back</u> <u>Next</u> Cancel |

[4] The following screen appears. Click [Continue Anyway].

Windows Logo testing warning



[5] Click [Finish] to complete the Driver installation.

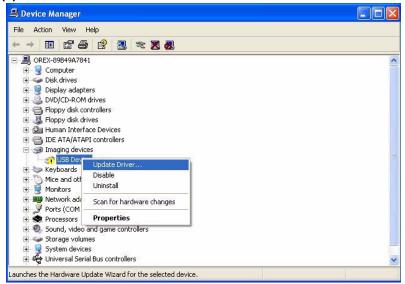
Hardware installation complete



Initiate Driver update (1)

| B Device Manager | |
|---|---|
| Eile Action View Help | |
| + → 🖬 🎒 😫 🔕 | |
| B- 🖳 OREX-89849A7841 | - |
| 🗄 😼 Computer | |
| 庄 🥪 Disk drives | |
| 🗄 💈 Display adapters | |
| 🗄 🙆 DVD/CD-ROM drives | |
| 🗄 📹 Floppy disk controllers | |
| 🗄 退 Floppy disk drives | |
| 🗄 🎰 Human Interface Devices | |
| 🗄 🚍 IDE ATA/ATAPI controllers | |
| 😑 🥪 Imaging devices | |
| USB Device | |
| 🕀 🦢 Keyboards | |
| Mice and other pointing devices Monitors | |
| 🗄 🧕 Monitors | |
| 🛨 🕮 Network adapters | |
| 🖭 🝠 Ports (COM & LPT) | |
| 🛨 🐲 Processors | |
| 🗄 🧐 Sound, video and game controllers | |
| 主 🥪 Storage volumes | |
| 😟 🖳 System devices | |
| 🗄 🚓 Universal Serial Bus controllers | |

Initiate Driver update (2)



Installing the License Dongle

Kodak QC software in Full Kodak QC installation requires operating the WIBU Key software. WIBU Key contains the license to run Kodak QC on the computer.

Caution

You can plug in only one WIBU Key of this type to the computer. Two WIBU Keys together will cause erratic system behavior.

In Light Kodak QC (Kodak QC Software for Application Integrator) installation the WIBU Key is not required unless the site includes one of the following features:

- Kodak Image Processing Software
- Total Quality Tool Software
- Kodak Long-Length Imaging Software

Installation

- [1] Plug the WIBU Key into a USB outlet port.
- [2] A new hardware wizard popup message appears. Choose Install the Software automatically (recommended) and click [Next].

WIBU Key Wizard



[3] Click [Finish] to close the Hardware wizard.

Found New Hardware



Note

Before starting to use the system, check in the **Settings> Setup** tab that the **Z-Cart** or **Table Top** option is set correctly according to the way the system is set up at your location.

Section 5: Setup and Configurations

DICOM Settings

DICOM Settings

When working with the HIS/RIS PACS services in an imaging facility you must configure the DICOM Settings tab in order to enable the use of the DICOM Services.

- [1] Go to the Kodak QC setting screen.
- [2] Choose the Setup tab.
- [3] Click DICOM Settings.
- [4] Choose the **Settings** tab, and fill in the necessary fields.

Settings Tab

| DICOM Settings | | |
|--------------------------------|---|--|
| Settings Destinations | | |
| 144L | DECOM send source | |
| Modelky Work List | "Send Flies" interval 1 Sec. Patries 2 | |
| Host name / IP amond | Source AE tote CSH | |
| Port 2250 | "Send Files" timeout: | |
| AE title | Traled Field Retry 60 Sec. 300 Sec. | |
| Station name | | |
| Called AE title | | |
| Colling AE tote | | |
| Modality Work Query | | |
| Query since Gil Today | DICOM dwar set Def aut | |
| Other: days before today | | |
| Modelity ce p days efter today | Institution name | |
| Query al patient ID | Manufacturer Corestream Health, Inc. | |
| | Manufacturer model name yoodal: Pont-of-Care CR 360 5 | |
| Query all accession number | Images Storage query 50 Sec. | |
| Query all patient name | Station Name | |
| QueryTimetat IS | Cancel Save | |
| Network query time | Use Same Series (10) for all study images | |
| | | |
| Keyboard Start Service | Close | |
| Start Service | | |

Settings Tab Fields

| # | Title | Description |
|---|---------------------|---|
| 1 | Modality Work List | Information obtainable from local network administrator for IP, port, AE title, other fields use default values |
| 2 | Modality Work Query | Determines how many days patient lists are retained |
| 3 | DICOM Send Source | Use default values |
| 4 | Clear Images | Determines max number of images saved in archive. Default recommended. |

DICOM Destinations

This tab is used to list PACS stations and DICOM or local printers.

- [1] Go to the Kodak QC configuration screen.
- [2] Choose the Setup tab.
- [3] Click DICOM Settings.
- [4] Choose the **Destinations** tab, and fill in the required fields, starting at #1.

DICOM Destinations

| E | NOOI | I Settings | | a de la | | 1 CASE | |
|----|------------|----------------|------|-----------|-----------|-------------------------------------|-----|
| S | ettings | Destinations | s | | | | 4.4 |
| -0 | ICOM Store | Destination | | | | Storage Commitment | |
| | Active | Host Name / IP | Port | AE Title | Name | | |
| | v | 192.168.3.30 | 104 | PACS | PACS | | |
| | | 192.168.3.32 | 104 | CD Burner | CD Burner | Host name / IP 192.168.3.34 | |
| | | | | | | Port 104 | |
| | | Add | Мо | dify | Delete | AE little STORAG | |
| | | | | | | Name STORAGE | |
| | | | | | | Associated destination 192.168.3.32 | |
| | | | | | | Add / Update | |
| | Keyl | board | Sto | p Service | | Close | |

Destinations and Printers Tab Fields

| # | Title | Description |
|---|-----------------------------------|---|
| 1 | DICOM Destination | List of PACS stations. IP, port, AE title obtainable from network administrator. Select store for PACS. |
| 2 | Add, Modify and Delete buttons | Add, modify or delete a station or printer to the list. |
| 3 | Storage Commitment | Enters information for DICOM destination when "store" is selected |
| 4 | Add/Update | |
| 5 | Keyboard | Activates virtual keyboard on screen |
| 6 | Start/Stop Service button | Stop and then restart DICOM service to apply changes that have been made. |
| 7 | Close | Close the DICOM Settings screen |

DICOM Printers

Pre-requirements

A DICOM Printer can be installed after the Point-of-Care CR System has been successfully installed. The PoC software installation should automatically install the Kodak Printer Driver software.

A DICOM printer must be accessible on the network during the printer installation as the AddDicomPrinter Wizard queries the printer for information before loading the appropriate driver for the printer.

Multiple installations of DICOM Printer Driver application on the same system is not allowed. If attempted the Installer will simply replace the previous installment. Therefore, if a version of Windows DICOM Printer Driver is installed on a workstation, you need to un-install it first. To do so go to **Control Panel>Add/Remove Programs>Carestream DICOM Printer Driver and click [Remove].**

The Printer Driver installation process prompts for automatic startup of the Add Printer Wizard and the Printer Status Monitor when the installation is complete. The installation will create shortcuts for the driver's "Add DICOM Printer Wizard" and DICOM Printer Status Monitor" programs under **DICOM_Printer_Driver in the Start Programs menu.** (See Path to DICOM Printer Wizard below)

Data that you will need to enter during the procedure: (see Step 4 below)

- Printer's Internet Address (IP)
- DICOM Application Entity Title (AE)
- Printer's Port Number

Adding a DICOM Printer

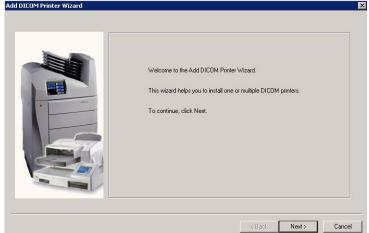
[1] Go to Start>Program>Carestream>DICOM_Printer_Driver>Add_DICOM_Printer_Wizard

Path to DICOM Printer Wizard

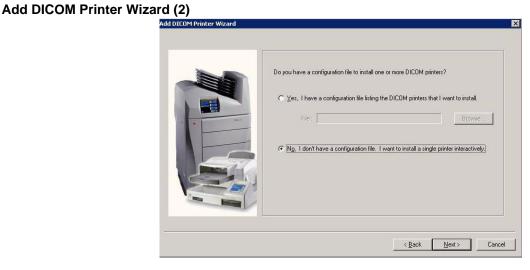


[2] Add DICOM Printer Wizard Screen opens; click [Next].

Add DICOM Printer Wizard (1)
Add DICOM Printer Wizard



[3] Select No, I don't have a configuration file. I want to install a single printer interactively, and then click [Next].



[4] Enter the IP Address, AE Title and Port number, then click [Next].

Enter Configuration data

| Enter printer configuration data. |
|--|
| C Network Printer Name : C IP Address : 172 . 19 . 200 . 224 |
| Printer AE []tle : Dreystar3000 |
| |

[5] Click [Install] to verify the printer information.

Verify printer information (Kodak)

| Please verify printer information. | |
|---|----------|
| PRINTER #11 IP Addres: 149 38 00.94 AE Title: DV8900 Port #: 5040 | |
| I To install these printers, press Install. Press Back to modify printer information. | <u>×</u> |

If you are installing a printer that is not a *Kodak* printer, you may be asked to identify the model once the Printer Wizard identifies the brand of printer that you are connecting to. If so, select your printer type from the drop-down list, then click [[OK] and [Install].

Note

Select only the model to which you are connecting. If your printer is not listed abort the installation and check to see if there is an updated version of the DICOM Printer Drivers software. Selecting a model that you do not have may cause image quality issues. Each printer has its own print parameters and by selecting an incorrect driver could cause true size printing problems or other problems.

Verify printer information (non Kodak))

| * | Please verify printer information | 192.168.2.30-104-Dry1 | |
|---|--|--|--------|
| | PRINTER #1 | | ОК |
| | AE Title: Drystar3000 Port #: 104 | Select a printer to install: | Cancel |
| | To install these printers, press I Press Back to modify printer inf | Agfa Dystar 5300 Compatible Agfa Dystar 5302 Compatible Agfa Dystar 5500 Compatible Agfa Dystar 5500 Compatible Agfa Scopix LR 5200 Compatible | |

[6] The Install Wizard finds the correct driver and issues a warning message. Click [Continue Anyway].

Wizard message



[7] DICOM printer driver installation is complete. Click [Finish].

Printer has been installed successfully



Kodak Point-of-Care CR System is ready for DICOM print after a DICOM printer is successfully added. The printer information appears in **Start>Setting>Printers and Faxes**.

Set-up the defaults for the DICOM Printer

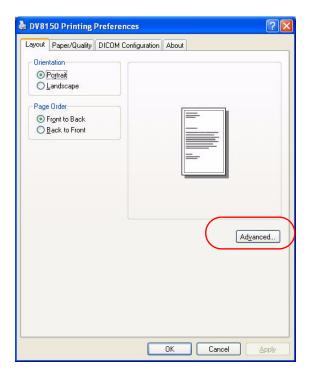
- [1] Go to Start>Settings>Printers and Faxes.
- [2] Right click on the icon of the DICOM Printer that you have just added and select Properties.
- [3] Select General tab>Printing Preferences.

Printer General tab

| Color Manageroent | Security | Device Settings |
|---|------------------|-----------------|
| General Sharing | Ports | Advanced |
| DV8150 | | |
| ocation: | | |
| omment: | | |
| odel: Kodak Dryview 8150 |) 12 | |
| Features | | |
| Color: Yes | Paper available: | |
| | | |
| Double-sided: No | 35x43cm (EK HG | 8150) 🔗 |
| | 35x43cm (EK HG | 8150) 🔗 |
| Double-sided: No Staple: No Speed: Unknown | 35x43cm (EK HG | 8150) 📩 |
| Staple: No | 35x43cm (EK HG | 8150) |
| Staple: No Speed: Unknown Maximum resolution: 325 dpi | | 8150) |
| Staple: No Speed: Unknown Maximum resolution: 325 dpi | 35x43cm (EK HG | 8150) |

[4] Select [Advanced].

Printing Preferences dialog



[5] In the Advanced Document Settings dialog:

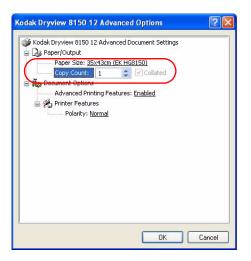
(a) Open the Paper Size dialog and select your default setting.

Advanced Document Settings

| Paper/O | w 8150 12 Advanced Document Settings |
|-----------|--------------------------------------|
| | r Size: 35x43cm (EK HG8150) |
| 1000000 | Count: 11×14in (EK HG8150) |
| Documer | r Ontion 35x35cm (EK HG8150) |
| Adva | nced Pril 35x43cm (EK HG8150) |
| 🖃 💏 Print | |
| | olarity: Normal |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

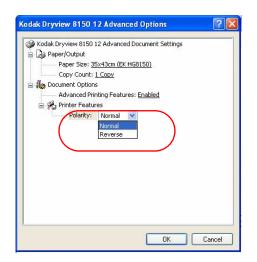
(b) Set your application default Copy Count value

Set Copy Count value



(c) Set your application default Printers Features>Polarity value.

Set Printer features



- [6] Go to DICOM Configuration tab and set the following items to your application default settings:, and then click [OK] and [Apply]. (Leave all other settings at default.)
 - a. Print Priority
 - b. Magnification Type
 - c. Border Density

DICOM Configuration tab

| DV8150 Printing Prefe | erences | | | | ? 🔀 |
|------------------------------|----------------------------------|---------------|-------|-----|-------|
| Layout Paper/Quality DICC |)M Configuratio | n About | | | |
| DICOM Printer Driv | | DICOMPrint | D.i | | |
| | Driver AE Title: | | | | |
| | mentation UID: entation Name: | 1.2.840.113 | | | |
| Impleme | entation in ame: | NUUAKWED | VI.U | | |
| Target Printer | | | | | |
| Printer AE Title: | DV850 | | | | |
| | IP Address: 192.168.3.16 | | | | |
| Network Name: | | | | | |
| Port Number: | 5040 | | | | |
| | Print Priority: | Medium | | - | |
| Magr | nification Type: | Cubic Splin | e | - | |
| _ | Border Density: | White | - | | |
| | | Luminance | | | |
| uraysca — Image Density — | le Pixel Space: | Launuarice | | - | |
| Min: 21 | | Max | 399 | - | |
| | | Hua. | 1000 | | |
| Viewing Conditions | | | 10000 | - 1 | |
| | | Illumination: | 2000 | _ | |
| F | ilm Reflected A | mbient Light: | 10 | | |
| | Paper | Illumination: | 150 | | |
| F | ilm Reflected Ai | mbient Light: | 0 | | |
| | | | | | |
| | F | ОК | Canc | | Apply |
| | L | | Lanc | | |

D Note

For more information about configuring *Kodak* DICOM Printers, see <u>"Recommended Configuration for Kodak</u> <u>Printers" on Page 32</u>

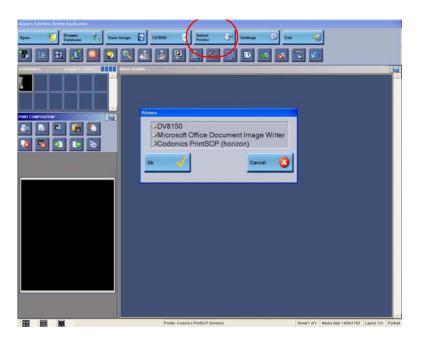
[7] In the General tab, click **Print Test Page to check your DICOM connection.** If you do not receive a test print on the printer that you just set up, you may have selected the wrong printer model. Please be sure that the printer is ON and that it is the correct model.

Performing a Trial Print from the User application

[1] To perform a trial print send an image from Kodak QC to the DICOM printer:

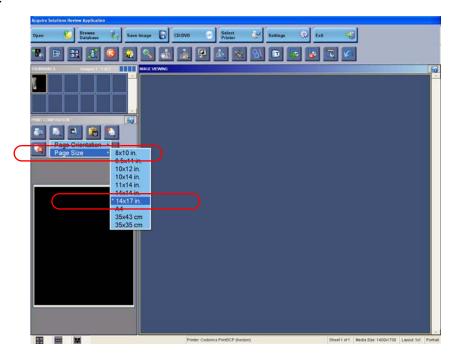
- (a) Login to Kodak QC software.
- (b) Open the Viewer.
- (c) Click on Select Printer icon on the main toolbar to select the DICOM printer.

Select Printer



(d) Choose the Page (film) size in Print Composition pane.

Select Page Size



(e) Click [Browse Database] to open the database, select an image and print it. (See Print an Image in the Viewer section of the Kodak QC Version 3.0 User Manual)

Select an Image

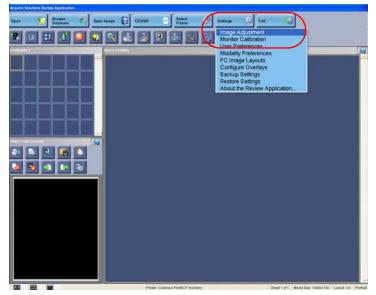


- (f) Check the printing results.
- [2] Select a Default Printer. In **Printers and Faxes** right click on the icon of the printer you want to set as default printer. In the dialog box that opens you can set the default printer.

Recommended Configuration for Kodak Printers

- [1] Open Kodak QC software.
- [2] Go to Viewer>Settings>Image Adjustment.

Viewer Settings options



[3] Browse to select a DICOM image, then click [Next].

DICOM Image Adjustment Wizard

| COM IMAGE ADJUSTA | IENT WIZARD - | Welcome | | |
|-------------------|---------------|---|--------------------|--------|
| adjust grayscale | processing pa | Adjustment wizardl Th arameters for optimal p source to one KODAK | printed images. Yo | u will |
| | | om the image source: dak\KodakQC\Images\A | xr\6_8_25_4 ▼ | Browse |
| Childhada | | 17 | | |
| Click Next to con | tinue. | | | |

[4] Click [Next] to verify the image choice.

Verify Image Source

| DICOM IMAGE ADJUSTMENT WIZARI |) - Verify Image Source |
|---|---|
| Verify that the information is Image Central uses the infor parameters. | correct for the image source you want to adjust. mation to recommend a set of image processing |
| Modality Type: Manufacturer: Model: Version: | CR Carestream Health, Inc. Kodak Point-of-Care CR 120 140 System |
| Click Next to continue, or cli | ck Back to select a different image. |
| Back | Next Cancel |

[5] Select the Kodak printer, then click [Next].

Select Printer

| DICOM IMAGE ADJUSTMENT WIZARD - Sele | ect Printer | | |
|--------------------------------------|-------------|--------|--|
| Select the KODAK Printer or Lase | r Imager: | | |
| | | | |
| DV8150 | - | | |
| | | | |
| | | | |
| | | | |
| Click Next to continue. | | | |
| Back | Next | Cancel | |
| | | | |

[6] Select TFT file parameters from the list. Select the last option, "I know the parameters that I want to use. I don't want to print test images., then click [Next].

Recommended TFT Set

| source and printe | | ressing parameters | for the selected image | |
|--------------------|----------------------|--|------------------------|---|
| TFT Set: Wrkstn2a. | w87, Contrast: 5 | | | |
| How do you want | to proceed? | | Allar des | 1 |
| C Use the re | commended paramet | ters. Print test images | to check the results. | |
| | | | | |
| C Do not use | e the recommended p | oarameters. I want mor | e choices. | |
| | | parameters. I want mor ant to use. I don't want | | |
| | parameters that I wa | | | |

[7] Select TFT parameter: "Wrkstn2a.w87", then click [Next].

Select Parameters

| Select the parameters: | | |
|-------------------------|--------------|--------|
| | | |
| TFT Set | Wrkstn2a.w87 | • |
| Contrast Number: | 6 | • |
| | | |
| 11-1 | | |
| Click Next to continue. | | |
| Back | Next | Cancel |

[8] Click [Next] to continue with the recommended parameters.

More DICOM Parameters

| There are | more recommend | led image (| processing p | arameter | s: | |
|------------|----------------------|---------------|------------------|--------------|----------------|---|
| Dmax 2.0 | Smoothing Type: NOR | IM AL | | 11-2 | 1 | |
| Dmax. 5.0, | amoutning type. NOR | OWAL | | | | |
| How do yo | ou want to proceed? | 2 | | | | |
| 🖲 Us | e the recommended p | oarameters. | Print test imag | jes to chec | k the results. | |
| C Do | not use the recomme | ended paran | neters. I want n | nore choic | es. | |
| Olk | now the parameters t | hat I want to | use. I don't w | ant to print | test images. | |
| Click Nex | t to continue. | | | | | |
| | | - | | - | | - |

[9] Test images are printed. Select the number of the image with the best quality, then click [Next]. Select Image Number

| DICOM IMAGE ADJUSTMENT WIZARD - Select Image Number |
|--|
| The test images are printing. Retrieve them from the printer and review the images. |
| Select your preferred image on the test print. Locate the image number with the preferred image on the test print. |
| Select the image number. |
| Click Next to continue. |
| Back Next Cancel |

[10] The printer configuration parameters appear on the screen. Record them for future use. Click [Finish] to exit the DICOM Image Adjustment Wizard, or [Next] to repeat the process for another image source and/or printer.

Room Settings

Introduction

A *Kodak* Point-of-Care CR System is capable of handling several X-ray systems installed in a single hospital. For this purpose, the *Kodak* QC Software assigns four "Rooms" A "Room" represents a set of user-defined parameters that correspond to and are calibrated to a specific X-ray unit in a particular location.

The "Rooms" are designated by default as Room1, Room2, Room3, and Room4. It is recommended that the "Rooms" be given user-friendly names that correspond to the X-ray units' location, such as "Operating Room," "Emergency Room," or "Dr. Smith's Room" etc.

Scan Preview Screen



For example: A cassette exposed in the hospital's operating room will be developed under **Operating Room** in the Kodak QC Software and a cassette exposed in the hospital's emergency room will be developed under **Emergency Room** in the Kodak QC Software.

Changing Room Names

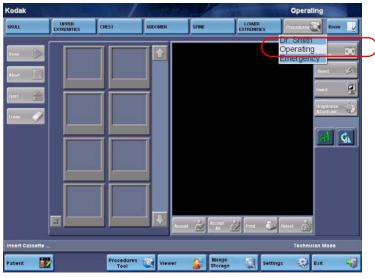
- [1] Enter the Kodak QC configuration screen.
- [2] Login with User Name "admin" and password "admin".
- [3] Select the Anatomical tab.
- [4] In the Room Configuration field select the desired room, then enter a new name in the Name column.

Anatomical Screen with Name Selected

| Rea | m Configuration | | | | | | | | |
|----------------------|----------------------------|-----|------|-------------|--------------------|----------|------|-------------------|-----|
| Name | | Sh | w | | | | | | |
| R1 Room | 1 | SH | wo | 1 | | | | | |
| R2 Room | 2 | SH | wo | | | | | | |
| R3 Room | 3 | SH | W | | | | | | |
| R4 Room | 4 | SH | w | | | | | | |
| Organ Config Reem | uration | | | • Organ | SKULL | | | Glabal PM Setting | Set |
| Name | | PM | 05 | Orientation | Body Part | Pesition | Look | - | |
| Skall PA/Ort | sit | 75 | 143 | No Rotation | SKULL | PA | LOOK | | |
| Shull Latera | | 105 | 144 | No Rotation | SKULL | LATERAL | | | |
| Sinuses | | 109 | 144 | No Rotation | SKULL | PA | | | |
| Zygoma | | 105 | 144 | No Retation | FACIAL BONES | PRJOTHER | | | |
| Nasal bone | | 109 | 144 | No Rotation | NASAL BONES | LATERAL | | _ | |
| Mandible Al | | 109 | 144 | No Rotation | JAW | AP | | | |
| Mandible La | teral | 105 | 144 | No Rotation | JAW | LATERAL | | - | |
| Del | iete selected sub argan | 1 | | | Add Sub Or Name | gan | | AH | |
| Keyboar | 4 | | Canc | . 1 | | Apply | 1 | | ок |

- [5] Click Apply to save changes.
- [6] Click [OK] to exit the Configuration screen.

Scan Preview Screen with New Room Name



Note

The result will be that each time you reach the Scan screen the new name will appear instead of Room 1.

Hiding Rooms Not in Use

If one of the rooms available is not in use, it is possible to hide it.

Anatomical Screen with "Hide" Selected

| | Name | Sho | | | | | | | |
|-------|------------------------------|-----|-------|-------|---------------|-------------|-------------------|----------|------|
| | Room1 | SHO | | | | | | | |
| 0.000 | Room2 | | - WC | | | | | | |
| | Room3 | HID | | | | | | | |
| R4 | Room4 | SHO | W | | | | | | |
| Orea | n Configuration | | | | | | | | |
| 0.577 | and the second | | | | | | Global PM Setting | | |
| Re | oom R1 | 2 | | Drgan | SKULL | - | J | Set | |
| Nam | e | PM | Offse | Grid | Filters | Orientation | Body Part | Position | * |
| Skull | PA/Orbit | 120 | 127 | | CSpine_medium | No_Rotation | SKULL | PA | |
| Skul | Lateral | 120 | 127 | | CSpine_medium | No_Rotation | SKULL | LATERAL | |
| Sinu | ses | 120 | 127 | | CSpine_medium | No_Rotation | SKULL | PA | |
| Zygo | ma | 120 | 127 | | CSpine_medium | No Rotation | FACIAL_BONES | PRJOTHER | 1.1 |
| Nasa | l bone | 120 | 127 | | CSpine_medium | No_Rotation | NASAL_BONES | LATERAL | |
| Man | dible AP | 120 | 127 | | CSpine_medium | No_Rotation | JAW | AP | 1100 |
| Man | dible Lateral | 120 | 127 | | CSpine medium | No Rotation | JAW | LATERAL | - |
| | | | | | Add Sub Org | | | | |
| | Delete selected sub organ | | | | Name | 40. | Add | | |
| | sub ordan | | | | | | | | |
| _ | | | | | | | | | |
| | | | | | | | | | |

- [1] Enter the *Kodak* QC configuration screen.
- [2] Select the Anatomical tab.
- [3] In the Show column of the room that is not in use, change the status from Show to Hide.
- [4] Click Apply and then OK to save the changes.

Gain Tuning Process

Introduction



This process is not relevant for Point-of-Care 360 Scanners.

The PoC Readers undergo tuning process before leaving the factory, but should be finely tuned during installation in order to set the unit to the nominal point of operation. This nominal point adjusts the PM value to operate with all the body parts without needing to change their values for each different body part. The *Kodak* Image Processing compensates for the different exposure image modifications.

The unit is gain tuned using a 14 x 17 in. flat field 2mR exposure.

Equipment Required

General purpose 14 x 17 in. cassette 0.5 mm Copper Plate 1.0 mm Aluminum Plate Dosimeter

Gain Tuning Procedure

[1] Set the X-Ray machine as follows:

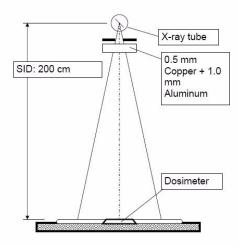
80 kVp, 10 mAs, SID = 2.0m

Large focal spot

Add 0.5 mm Copper plate (above) and 1.0 mm Aluminum plate (below) at the tube exit.

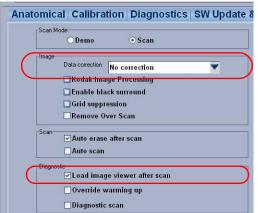
Position the Dosimeter in the exposure field.

X-ray setup



- [2] Adjust the SID to get a value of $2mR \pm 0.1mR$ (17.4 µGy ± 0.4 µGy).
- [3] Place 14 x 17 in. cassette in the center of the field.
- [4] Make an X-ray exposure.
- [5] Wait 5 minutes after exposing the cassette.
- [6] In Settings>Setup tab, select No correction and check Load image viewer after scan.

Set Image and Diagnostic settings



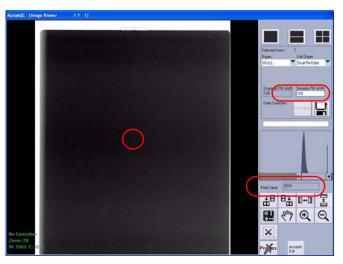
[7] Change the Skull PA filter to soft.

Change the Skull PA Filter

| | Show | | | |
|---------------------------------|--|---------------------------------------|----------------|------------------|
| R1 Room1 | SHOW | | | |
| R2 Room2 | SHOW | | | |
| R3 Room3 | SHOW | | | |
| R4 Room4 | SHOW | | | |
| Room R1 | Organ | SKULL | Global PM S | Setting |
| Name | PM Offse Orie | ntation Body Part | Position | |
| Skull PA/Orbit | 120 111 No_R | otation SKULL | PA | Soft 💌 |
| | 120 111 No R | otation SKULL | LATERAL | Medium |
| Skull Lateral | 120 III NO_N | | | |
| Skull Lateral Sinuses | 120 111 No_R | otation SKULL | PA | Medium |
| Sinuses Zygoma | 120 111 No_R | otation SKULL otation FACIAL_BONES | PA PRJOTHER | Medium Medium |
| Sinuses Zygoma Nasal bone | 120 111 No_R 120 111 No_R 120 111 No_R | | | |
| Sinuses Zygoma | 120 111 No_R 120 111 No_R 120 111 No_R | otation FACIAL_BONES | PRJOTHER | Medium |

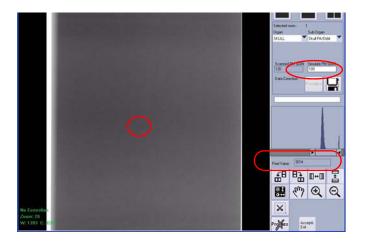
- [8] Load the cassette and scan using the existing PM Gain value.
- [9] Measure the pixel value in the center of the field.

Measure Pixel Value in Center of Field



[10] Change the PM Gain to get a pixel value (APV) of 3200 ±50.To increase the Pixel Value, decrease the PM Gain.To decrease the Pixel Value, increase the PM Gain.

Change the PM Value



[11] Click on icon to open the Save Settings dialog; check Save PM and Save to all organs, then click [OK]. Save PM settings

| KodakQC - [Image Viewer 1 1 - 1] | | | | | | 1 |
|---|---------------|--------------------|-------------------------------|------|-------------------------|-------|
| | | | Selected in Organ SKULL | | Sub Organ Skull PA/O | tbà 💌 |
| State | lave settings | | | | | |
| | Selected room | | Scanned 120 Data Cor | | Smulate PM | |
| Constant (1997 Address of | Save Pm | Save to sub organ | | | TO GESS | |
| State Contractory | | | | | \succ | |
| | | OSave to organ | | | | |
| | | Save to all organs | | | | |
| | ок | Cancel | Pixel Value | 3144 | | |
| | | | £₿ | ᄘ | 0+0 | Ŧ |
| | | | | En | Ð | Q |
| No Correction | | | × | | | |
| Zaam: 20 W: 1393 C: J26 | | | Profess | Acc | ept& | |

[12] Go to Settings>Anatomical tab, check that the PM values are set to the value that you saved in the above step; if the PM Value is not updated, type the value in to Global PM Settings and click [Set].

Section 6: Troubleshooting

| | Problem | What should I do? | Remarks |
|-----|---|---|--|
| 1. | "Disconnect" error message | 1. Check: | |
| | appears on the "unit interface" | Power cable connected? | |
| | screen. | USB cable connected? | |
| | | 2. Turn scanner off; then on again. | |
| 2. | After the scanner is turned on, initialization sound does not stop. | Turn system off; then on again. If the problem persists, contact your distributor. | |
| 3. | Cassette cannot be inserted into the tray. | Make sure the cassette is positioned at the center of the tray. | |
| 4. | Image is too bright. | From the – Setup menu, increase "PM-Gain" for the type of image which is too bright. | PoC 140/260 only |
| 5. | Image is too dark. | From the – Setup menu, and decrease "PM-Gain" for the type of image which is too light. | PoC 140/260 only |
| 6. | Double exposure received. | Check that the erase lamps are working. | |
| 7. | White lines appear on image. | Contact service. | |
| 8. | Horizontal lines appear on image. | Contact service. | |
| 9. | Scan does not start. | Contact service. | |
| 10. | Systems is shaking. | Place system on steady surface. | |
| 11 | Diagonal lines appear on image. | There is light penetration into the system. Place the system away from intense light source (window). | See <u>"Environmental</u> Requirements" on Page 12 |

Section 7: Installation Documentation

Pre-installation Form

| | Computer requirements |
|--------------------------------|---|
| PC: | |
| CPU | Dell Pentium 4, 2.8 GHz (min.) |
| RAM | 1 GB (minimum) |
| Hard-Drive | 80 GB |
| Operating System | Microsoft Windows XP Pro + SP2 ^a or Vista Business + SP1 |
| Monitor: | |
| Size | 17 in. (min.) |
| Resolution | 1024 x 768 or 1280 x 1024 |
| Ports: | ! |
| 4 USB2 ports available | |
| Parallel ports | |
| Additional: | |
| Network adapter (for DICOM set | nd) |

a. The Windows XP operating software must be installed according to the local language. (For Chinese and Japanese see <u>"Appendix A: Language Setting" on Page 45</u>)

| Space requirements Stable surface | | |
|--------------------------------------|--------|--------|
| | | |
| Width | 115 cm | 100 cm |
| Height | 55 cm | 50 cm |
| Depth | 95 cm | 80 cm |

| Electrical requirements | | |
|---|----------------|--|
| Voltage | 100 - 240 V AC | |
| Frequency | 50 - 60 Hz | |
| UPS – Online | 700 VA | |
| UPS connected to CR system, PC, Monitor | | |

| Environmental requirements | |
|----------------------------|---|
| Temperature | 15°C to 30°C (+59°F to +86°F) normal lab conditions |
| Humidity | 80% non condensing (15% to 76% relative humidity) |
| Light | less than 1000 Lux |

| Configuration requirements | |
|----------------------------|----------|
| Name of PACS on the site * | |
| DVD Burner | Yes / No |
| MWL (Modality Work List) | Yes / No |

When using the *Kodak* Point-of-Care CR System with a main PACS on site, the images are DICOM sent to the PACS. Please verify with Carestream the compatibility of the PACS to QC Software.

Installation Report

| Reporting distributor | |
|--|-----------|
| Company name: | |
| Technician installing the <i>Kodak</i> Point- of-Care CR System | Name: |
| | Tel. No.: |
| | e-mail: |

| Site information | |
|-------------------------|--|
| Name: | |
| Address: | |
| Tel. No.: | |
| Additional information: | |

| Installation pre-requisites | |
|---------------------------------------|--|
| Date: | |
| SN of system installed: | |
| Computer requirements available? | |
| Space requirements available? | |
| Electrical requirements available? | |
| Environmental requirements available? | |

* See Installation pre-requisites ("Installation Documentation" on Page 43.)

| Installation process | |
|----------------------|--|
| Drivers for CR: | |
| Kodak QC: | |

| Accessories | | |
|-------------------|----------|--|
| | Quantity | |
| 14 x 17 cassettes | | |
| 14 x 14 cassettes | | |
| 10 x 12 cassettes | | |
| 8 x 10 cassettes | | |
| | | |
| | | |
| | | |
| | | |

*** Specify the type and software version of PACS to which the images are sent.

Name:

Signature:

Section 8: Appendix A: Language Setting

Japanese Language

Since the virtual keyboard generates real key events like a physical keyboard, it is not possible to run the 106 keyboard outside of the Japanese OS.

When you install the Japanese OS you must choose the 101 keyboard.

Chinese Language

In order to activate the virtual keyboard as a Chinese keyboard, define the following regional settings, and restart your computer.

You must have "Chinese (simplified) - Microsoft Pinyin IME 3.0" in the Windows Keyboard configuration so that the user can switch between English and Chinese through the VKB.

Follow these instructions to enable the Chinese Virtual Keyboard operation.

[1] Go to Settings>Control Panel>Regional and Language >Regional Options.

| ects how some programs format numbers, currencies, a. to match its preferences, or click Customize to choose ats: 123,456,789.00 ¥ 123,456,789.00 17:21:30 2007-7-29 |
|---|
| 123,456,789.00 ¥ 123,456,789.00 17:21:30 |
| Customize |
| ¥ 123,456,789.00 17:21:30 |
| ¥ 123,456,789.00 17:21:30 |
| 17:21:30 |
| |
| 2007-7-29 |
| |
| 2007年7月29日 |
| 2007年7月29日 es provide vou with local information, such as news a |

Select Chinese (PRC) from Standards and formats drop down list,

and Chinese from the Location list.

[2] Go to Languages tab, then click Details.

| Text Services and Input Languages | Text Services and Input Languages |
|---|--|
| Settings Advanced | Settings Advanced |
| Default input language Select one of the installed input languages to use when you start your computer. English (United States) - US | Default input language Select one of the installed input languages to use when you start your computer. |
| Installed services Select the services that you want for each input language shown in the list. Use the Add and Remove buttons to modify this list. Image: Chinese (PRC) Image: Chinese (Simplified) - Microsoft Pinyir Chinese (Simplified) - Microsoft Pinyir Chinese (Simplified) - US Keyboard Image: Chinese (Taiwan) Image: Chinese (Taiwan) | Installed services Select the services that you want for each input language shown in the list. Use the Add and Remove buttons to modify this list. Chinese (Taiwan) Handwriting Recognition Drawing Pad Keyboard Chinese (Traditional) - US Keyboard Chinese (Traditional) - US Keyboard Microsoft New Phonetic IME 2002a English (United States) Preferences Language Bar Key Settings |
| OK Cancel Apply | OK Cancel Apply |

- (a) Select Chinese (PRC), then click Add.
- (b) Select Chinese (Taiwan), then click Add, then click OK and Apply
- [3] Go to the Advanced tab., select Chinese (PRC)

| Regional and Language Options | ? × |
|---|------|
| Regional Options Languages Advanced | |
| - Language for non-Unicode programs | |
| This system setting enables non-Unicode programs to display menus and dialogs in their native language. It does not affect Unicode programs, but it does apply to all users of this computer. | |
| Select a language to match the language version of the non-Unicod programs you want to use: | e |
| Chinese (PRC) | •) |
| ✓ 10000 (MAC - Roman) ✓ 10001 (MAC - Japanese) ✓ 10002 (MAC - Traditional Chinese Big5) ✓ 10003 (MAC - Korean) ✓ 10004 (MAC - Arabic) ✓ 10005 (MAC - Hebrew) | |
| Default user account settings Apply all settings to the current user account and to the default user profile | |
| OK Cancel As | oply |

Select Chinese (PRC), click OK, then Apply.

Section 9: Publication History

| Publication Date | Publication No. | ECO No. | Changed Pages | File Name | Notes |
|---------------------|--------------------|------------|------------------|---|-----------------|
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