

# Canon

Digital Retinal Camera

## CR-10

Instructions for Use

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CE  
UK  
CA

For European Union

## **Important**

- The user is responsible for managing the usage and maintenance of medical equipment. We suggest that a dedicated individual is assigned responsibility for maintenance to ensure that this product is kept in good condition and can be used safely.
- Connection of a system that uses this product to a network could result risks to patients, operators, or third parties. A dedicated individual who is assigned responsibility for maintenance should assess these risks in advance.

The responsible person should also assess the risks when changes to the network (including changes in the network configuration, addition or disconnection of items to the network, or update or upgrade of equipment connected to the network) occur after connection.

## **Operator Profile**

- This product can only be used by a doctor or legally qualified person who has general knowledge of ophthalmology and can understand this manual.

## **Patient Target Group**

- Pediatric and adult patients who can hold their head against the forehead rest and chin rest while capturing (including pregnant and breast-feeding women), who do not meet contraindications, and regardless of gender.

## **Indications**

- This device is indicated for non-contact imaging of the retinal fundus through the pupil to assist in the diagnosis of retinal diseases.

# 1 Introduction

## Overview

This product can take fully automatic digital photographic color retinal images of a patient's eyes.

By tapping the Start button on the supplied software to start the examination, you can automatically perform alignment, such as positioning and focus adjustment, to capture.

By performing settings in advance, color retinal images of both eyes also can be captured automatically.

## Indications for Use

This device is intended to observe and record images of retinal fundus through the pupil without making contact with subject's eye for the purpose of diagnosis.

The Canon CR-10 is not intended to be used as the sole diagnostic instrument for disease. A qualified doctor is responsible for the definitive diagnosis referring to other measurement results with other instruments.

# Composition

## Composition

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- CR-10
- Power cord
- RX Capture for CR-10 Software

## Optional Products

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- External eye fixation lamp unit EL-1
  
- RX Server Software (license)  
Server Software
  
- RX Viewer Software (license)  
Viewer Software

# Software Operating Environment

The Control PC, Monitor, Printer and Isolation transformer are general purpose equipment.

Each devices need to meet the following specifications.

Hardware or software	Specifications
CPU	Intel CPUs
RAM	16 GB or more
Display	Screen resolution: 1920 x 1080 pixels Screen colors: 24 bits or more Touch panel recommended
Hard disk	500 GB or more: For a local server (when not introducing the RX Server yet) 100 GB or more: For a remote server (when introducing the RX Server)
Interface	USB 3.0
Network	1000BASE-T or more
OS	Microsoft Windows 11 Pro Version 23H2 or later (x64)
Application software	Microsoft .NET Framework Version 4.8 SQL Server 2019 Express US version (64-bit)

## 2 Safety

### Regulatory Information

#### Device Classification

Type of protection against electric shock	Class 1 equipment
Degree of protection against electric shock	Type B applied parts (chin rest and forehead rest)

#### CE marking

- This product complies with the following:
- Regulation (EU) 2017/745
  - Directive 2011/65/EU

#### For European Union

##### Notification of Serious Incident

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Any serious incident (defined in Article 2(65) of the Regulation (EU) 2017/745) that has occurred in relation to the product should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

##### Electronic Instructions for Use

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Instructions for use are available on the website for viewing and download by customers.

- <https://global.canon/en/ifu/medcom/index.html>

For details, please contact your sales representative or local Canon dealer.

## Safety Precautions

To prevent injuries and data loss, operate this product correctly by following the safety precautions.

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**Do not leave alcohol, thinner, or any flammable chemicals near the instrument.**

Do not place a flammable solvent near the instrument. Fire could result if the solvent spills or evaporates and makes contact with internal electric parts. Some disinfectants are flammable. Be sure to take precautions when using them.

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**Do not touch conductive parts of non-medical equipment and the patient simultaneously.**

Otherwise, electric shock could result.

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**Do not install in locations exposed to water, steam, moisture or dust.**

Doing so may cause problems or malfunctions.

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**Do not install in locations exposed to salt, sulfur or corrosive gas.**  
Doing so may result in corrosion of the instrument, problems or malfunctions.

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**Do not install in locations that are unstable or exposed to vibration.**

The vibration may knock over the instrument or the instrument may become unbalanced and fall, resulting in a malfunction or injury.

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**Do not place your hands or fingers under the chin rest or around the measurement unit.**

Your hands or fingers may be pinched and injured. Similarly, instruct the patient not to place he/she hands under the chin rest around the measurement unit.

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**Do not place your hands or fingers between the measurement unit and the base.**

Your hands or fingers may be pinched and injured when the measurement unit moves in any direction. Similarly, instruct the patient not to place his/her hands or fingers between the measurement unit and the base.

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**Do not hold the face rest or the measurement unit when moving this product.**

When moving this product, hold the indentations for lifting of the base, and keep this product level. Do not hold it by the face rest or the measurement unit, as they may come off and result in injury.

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**Ensure that the entire system conforms to IEC 60601-1.**

In the patient environment, use a computer and monitor that conform to the system standard IEC 60601-1 for this product. A computer and a monitor conforming to IEC 62368-1 can be also used. However, be sure to use an isolation transformer. Otherwise, electric shock may occur. For details, please contact your sales representative or local Canon dealer.

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**Keep the forehead rest and chin rest clean.**

To prevent the risk of infection, wipe the forehead rest with disinfectant ethanol for each patient. Similarly, to prevent the risk of infection, replace the chin rest paper for each patient.

For details on how to disinfect, consult a specialist. The forehead rest may corrode if a disinfectant other than those above is used.

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**Slowly move the measurement unit towards the patient's eye when taking an image.**

When adjusting the position of the measurement unit in the front-back direction, slowly bring the measurement unit closer to the patient while looking at the patient's face from the side.

The patient's eye may be injured if the objective lens makes contact with it.

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**Check the image before using this product.**

Before using this product, be sure to take a test image to ensure that there is no foreign matter that can affect image readings or diagnosis.

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**Make sure that the patient's name, ID, birth date, and sex match those that are entered for the patient.**

If the entered information is in error, patient identities may be incorrect. This may result in misdiagnosis and physical injury to the patient.

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**Do not touch the measurement unit while it is moving.**

The measurement unit moves to the center position when this product is turned on. Do not touch the measurement unit while it is moving. Keep the patient's chin away from the chin rest.

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**Before packing this product, move the measurement unit to the position for packing.**

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**Use the product's packaging to transport it.**

When transporting this product, use the original packaging to protect it from vibration and shock.

Vibration and shock may cause failure of or damage to this product.

For details, please contact your sales representative or local Canon dealer.

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**Do not turn off this product or the computer during image capture, data transfer or backup.**

Doing so may damage the computer or corrupt the data.

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**Do not change the OS settings (e.g. screen resolution, date format, date, or language) while this software is running.**

Otherwise, this software may not function properly.

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**Do not operate this software until importing or transferring of the image is completed.**

Otherwise, this software may not function properly.

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**Do not disconnect the cable between this product and the computer during image capture or data transfer.**

Doing so may damage the computer or corrupt the data.

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**Do not install any other software after installing this software.**

Do not install any other software than that of specified by your sales representative or local Canon dealer. Otherwise, this software and this product may not function properly.

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**Have a network administrator configure and manage the network to connect the system to the network.**

When connecting to the network, the network administrator should configure the settings and check if the network is working properly.

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**Scan for computer viruses when importing the external data.**

When connecting a USB memory device or hard disk drive or importing data from another computer, scan for computer viruses. If the computer has been infected with a virus, patient information and examination data may be damaged or taken by unauthorized individuals.

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**Perform backup of the data to an external memory device on a regular basis.**

Otherwise, stored patient data may be inaccessible in the event of this software or computer malfunction.

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**Be sure to log off this software when not in use.**

To prevent unauthorized operation, be sure to log off this software when it is not being used.

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**This Product is not intended to be used as the sole diagnostic instrument for disease. A qualified doctor is responsible for the definitive diagnosis referring to other analysis results with other instruments.**

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## Precautions for IT security

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**Have a network administrator configure and manage the network to connect the system to the network.**

When connecting to the network, the network administrator should configure the settings and check if the network is working properly.

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**Be sure to log off this software when not in use.**

To prevent unauthorized operation, be sure to log off this software when it is not being used.

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**Scan for computer viruses when importing the external data.**

When connecting a USB memory device or hard disk drive or importing data from another computer, scan for computer viruses. If the computer has been infected with a virus, patient information and examination data may be damaged or taken by unauthorized individuals.

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**Perform backup of the data to an external memory device on a regular basis.**

Otherwise, stored patient data may be inaccessible in the event of this software or computer malfunction.

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**Do not disconnect the cable between this product and the computer during image capture or data transfer.**

Doing so may damage the computer or corrupt the data.

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**Do not turn off this product or the computer during image capture, data transfer or backup.**

Doing so may damage the computer or corrupt the data.

---

**Do not install any other software after installing this software.**

Do not install any other software than that of specified by your sales representative or local Canon dealer. Otherwise, this software and this product may not function properly.

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**Do not change the OS settings (e.g. screen resolution, date format, date, or language) while this software is running.**

Otherwise, this software may not function properly.

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**Do not operate this software until importing or transferring of the image is completed.**

Otherwise, this software may not function properly.

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## Information for IT security

- User requirement  
This product can only be used by a doctor or legally qualified person who has general knowledge of ophthalmology and can understand this manual.
- Environment of use  
This product should connect to the Hospital Network. When connecting to the network, the network administrator should configure the settings and check if network is working properly.
- Risk profile  
It is possibility that a malicious assailant uses a system, so please be sure to log off this software when not in use.
- Provisions to ensure integrity/validation of software updates and security patches  
Please contact details to your sales representative or local Canon dealer since service persons apply to appropriate security patches to users. Manufacturer informs service persons of application method of security patches after operation check.
- Security configuration options  
Firewall setting is automatically configured so that someone cannot access to the system via network. This firewall setting is done by software installer as default.
- Initial configuration guidances  
After new user is added, the default user account that was configured at new installation must be changed the password or delete this account itself. If this step is skipped, any security issues.
- Instructions for deploying security updates  
Windows updates are applied for security updates.
- Failsafe mode  
This system has a failsafe mode to continue to use the system even in network trouble. When the network trouble is detected, the system automatically start failsafe mode. In the failsafe mode, examination date is stored locally instead of network location. Then the local data will be automatically moved to network location and exits from failsafe mode after network trouble will disappear.
- IT Security controls  
The following security settings are recommended and set by default.  
Windows firewall is automatically configured so that someone cannot access to the system via external network. Windows defender is enabled.

- Actions for alert messages related to IT security

Message	Remedy
There should be at least one administrator.	This user cannot be deleted when only one person is registered as the administrator. Add a user as the administrator, and then delete the user.
Current logged user can not be deleted.	- The user who is logged in at the moment cannot be deleted. The other administrator has to log in to the user. - This user cannot be deleted when only one person is registered as the administrator. Add a user as the administrator, and then delete the user.
Unable to lock Database	After other users log out, try the operation again.
Unable to lock patient Unable to delete patient	After another user deselects the patient, try the operation again.

- Backup and restore features  
(see page 20)

## Notes on Use

### Before Use

- Inspect this product daily. Make sure that no foreign matter is present that can affect image readings or diagnoses.
- Any dirt or scratches on the objective lens appear as white spots which may affect the image quality. Check and clean the objective lens before taking an image.
- Sudden heating of a room during winter or in cold regions may cause condensation to form on the objective lens or on optical parts inside this product, resulting in an inability to obtain optimal images. In this case, wait until condensation disappears before taking images.

### After Use

- After using this product, turn off the power, attach the objective lens cap to protect the objective lens from dust, and place the dust cover over this product. You cannot take good images if the objective lens is dusty.

### Cleaning and Disinfecting

- Do not allow the blower to touch the lens.
- Do not wipe or rub the lens if there is dirt or dust on it.
- Do not wipe the lens with ethanol solution, eyeglass cleaner, or silicone-coated paper. Doing so could damage the surface of the lens or leave streaks.
- Do not clean the exterior of this product with lens cleaner. Doing so could damage the exterior of this product.
- Do not use alcohol, benzene, thinner, or other solvents to clean the exterior of this

product. Doing so damages the exterior of this product.

- Do not use ethanol solution to clean the exterior of this product, except the forehead rest and the chin rest. Otherwise, damage may occur to the exterior of this product.
- If the chin rest paper is not being used, disinfect the chin rest for each patient in the same manner as you do for the forehead rest.

## Environment of Use

- Use, store, and transport this product in an environment that is within the range of the following conditions. Use the original packaging to store or ship it.

	Temperature	Humidity	Atmospheric pressure
Environment of use	10 to 35 °C	30 to 90% RH (no condensation)	600 to 1060 hPa
Storage and transportation environment	- 30 to 50 °C	10 to 95% RH (no condensation)	600 to 1060 hPa

- Do not install, store, or leave this product in a very hot or humid environment. Also, do not use this product outside. Doing so may cause problems or malfunctions.
- Always try to keep the room as clean as possible. After many years of usage, airborne dust in the room may get on the objective lens and the optical parts inside the measurement unit. You cannot take good images if the equipments are dusty.
- When this product is not being used, attach the objective lens cap and place the dust cover over this product.

## Installation

- Ask your sales representative or local Canon dealer to install it.
- Use a USB cable that is 2 meters long or less.
- A strong shock to this product may put it out of alignment. Please handle the unit carefully.

## Disposal

Disposal of this product in an unlawful manner may have a negative impact on human health and on the environment. Therefore, when disposing of this product, be absolutely certain to follow the procedure which conforms with the laws and regulations applicable to your area.

### Only for European Union and EEA (Norway, Iceland and Liechtenstein)



This symbol indicates that this product is not to be disposed of with your household waste, according to the WEEE Directive (2012/19/EU) and national legislation. This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, approved WEEE scheme or supplier where you purchased the product.

The information above, including information on batteries, is on our website in the official languages of each EU country.

Please access <https://global.canon/en/ifu/medcom/envfile/weee-battery-eu.pdf>.

### Only for the United Kingdom



This symbol indicates that this product is not to be disposed of with your household waste, according to the UK Waste Electrical and Electronic Equipment Regulations. This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, approved WEEE scheme or supplier where you purchased the product.

The information above, including information on batteries, is on our website.

Please access <https://global.canon/en/ifu/medcom/envfile/weee-battery-uk.pdf>.

## Software

- (1) Ask your sales representative or local Canon dealer to install and update this software and drivers.
- (2) For instructions on operating the computer and Windows software, refer to the respective operation manuals.
- (3) This software can be used only by the users with [Users] or [Administrators] privileges.
- (4) Make sure that the appropriate access rights are set for the drive or folder when performing the following operations.
  - Add an HDD on the [Storage Management] screen.
  - Output DICOM, JPEG, and BMP data.
  - Import CSV files of the patient information.
  - Import retinal images.
  - Perform backup of the data to the backup drive.
  - Import and export examination data.
- (5) Do not use [Switch User] (which switches users without logging off) in Windows. When two or more users are using this software, be sure to select [Log Off], and then log on again as a different user.
- (6) Be sure to set the screen saver, power options and font settings on the computer as shown below.










Items	Settings
Screen saver	None
Turn off the display	Never
Put the computer to sleep	Never
Turn off hard disks	Never
When I press the power button	Shut down
Start menu power button	Shut down
Font size	Smaller - 100% (default)

- (7) Do not put the Windows computer into sleep or hibernate mode.
- (8) If an application error appears or this software freezes on use, follow the instruction below.
  - 1) Turn off the power to the computer.
  - 2) Turn off the power to this product.
  - 3) Turn on the power to this product.
  - 4) Turn on the power to the computer.
- (9) Do not update and upgrade Windows while this software is running. While updating or upgrading Windows, this software may operate slowly or may not be able to operate.

- (10) To prevent a wizard or menu from automatically opening while this product is connected to the Windows computer, take the following steps:
- 1) Open the [Control Panel], tap [Hardware and Sound], and tap [Play CDs or other media automatically].
  - 2) Select [Take no action] from the dropdown list for [Canon EOS XXD RETINA]. Then, tap [Save].
- (11) The software does not support environment-dependent characters extended in Windows.

## Product Marking

The following table describes the marks and indications on this product.

	Alternating current
	Type B applied part
	Product that WEEE directive, Directive on Waste Electrical and Electronic Equipment, requires separate collection. The directive is effective in the European Union only.
	Consult instructions for use
	This symbol indicates medical device which complies with the Regulation (EU) 2017/745.
	Authorised Representative in the European Community
	Manufacturer
	Serial number
	Date of manufacture

## 3 Basic Operation

### Preparing to Capture Images

#### Preparing this product

- 1 Remove the dust cover and the objective lens cap.
- 2 Insert the power plug all the way into an AC outlet.
- 3 Turn on the power to this product.
- 4 Turn on the power to the computer and the monitor.
- 5 Enter the user ID and password, and then tap [Log In].

#### Entering Patient Information

- 1 Enter the patient ID of a new patient.
- 2 Enter other patient information.
- 3 Tap the [Capture] tab.

## Preparing for Patients

- 1 Disinfect the forehead rest and replace the chin rest paper.
- 2 Instruct the patient how to sit in front of this product.
- 3 Adjust the height of the chin rest.

## Capturing Images

### Selecting a Protocol

- 1 Tap [R].
- 2 Tap the protocol button.
- 3 Select the [Retinal RC] protocol from the protocol select screen.
- 4 View the pupil.
- 5 Tap [Start].

### Capturing Retinal Images

- 1 Tap [Capture].

### Checking the Captured Image

- 1 Tap [OK] or [NG].

## Viewing Reports

### Viewing Reports

- 1 After the capturing is completed, tap the [Report] tab.

### Outputting and Printing Reports

- 1 Tap [Output].
- 2 Select the output destination, and then tap [OK].

## Shutting Down this product

- 1 Tap [Log out].
- 2 Tap [Shutdown].
- 3 Turn off the power to this product.
- 4 Disconnect the power plug from the AC outlet.
- 5 Attach the objective lens cap, and place the dust cover over this product.

## Backup and Restoration

On the [Backup and restore] screen, perform backup of the patient information and the examination data that were acquired with the software and restore them. The backup can be performed either automatically or manually. In the automatic backup, the backup schedule can be set. If a problem occurs to the database, restore the patient information and examination data. When you select [Local] on [Database], [Backup and restore] can be set.

## Setting a Drive for the Backup

Enter a path for the backup destination to [Backup destination] or tap [Browse] to select a backup destination.

## Automatic Backup Settings

Select the day of the week when the automatic backup is performed, and select the type of backup from the list box.

- [Full Backup]: Performs backup of all data.
- [Incremental Backup]: Backs up only the data that is modified from previous backup.

Select a time when the automatic backup is performed from the list box.

If [At Exit] is selected, the backup will be performed when you exit the RX Capture for CR-10/RX Server.

The old backup log is deleted after full backup succeeds. To save the old backup log, clear the [Delete all old logs after succeeding to full backup] check box.

## Manual Backup

Tap [Full Backup] or [Incremental Backup].

Backup starts.

Tap [Cancel] to cancel the backup.

## Displaying the Backup Log

When the [Backup Logs] tab is tapped, the list of the backup log appears.

## Restoring Data

By restoring data, the state of data can be returned up to the stage of the selected backup log.

### 1 Select a backup log, and then tap [Restore].

For example, if restoring the backup log of 5/16/2012, the status returns to 5/16/2012. Therefore, the patient information and examination data acquired on and after 5/17/2012 are deleted.

Restoring starts.

When the screen where the progress bar is indicated disappears, restoring is finished.

## 4 Maintenance

### Daily Inspections

Perform the following inspections before using this product to ensure that it is used safely and correctly. If a problem is found during the inspection and you are unable to correct the problem, please contact your sales representative or local Canon dealer.

#### Checks Before Turning On the Power

Check the following items before turning on the power.

- 1) The power cord and connection cable are not damaged and their insulation is not torn.
- 2) The power cord is fully and securely inserted into the AC connector on this product and the AC outlet.
- 3) The cable is firmly inserted to the connector and there is no looseness.
- 4) The exterior of this product is not damaged or loose.
- 5) There are no scratches or dirt on the objective lens. Clean the objective lens if it is dirty.
- 6) There is no dirt on the touch panel monitor or the computer monitor. Clean the touch panel monitor or the computer monitor if it is dirty.

#### Checks After Turning On the Power

Turn on this product, and then turn on the computer. Check the following items after you log in.

- 1) The POWER lamp lights.
- 2) The chin rest moves up and down smoothly as the [Chin Rest] button is tapped.
- 3) The measurement unit moves up and down smoothly as the anterior segment image is tapped.
- 4) The measurement unit moves back and forth smoothly as the [Front/Back] button is tapped.

## Moving the Product

- 1 Turn off the power to the computer.
- 2 Turn off the power to this product.
- 3 Remove the USB cable connecting this product to the computer.
- 4 Turn on the power to this product.
- 5 Turn off the power to this product.
- 6 Be sure to unplug the power plug from the AC outlet.
- 7 Move this product.

## Cleaning and Disinfecting

### Objective Lens

If the objective lens is dirty, clean it according to the procedure below.

- 1 Check for any dirt.**  
Illuminate the objective lens with a penlight to check for dirt.
- 2 Blow away any dust or dirt.**  
Use a blower to blow away any dust or dirt on the lens. Do not use a brush to dust off.
- 3 Wipe the objective lens.**
  - 1) Wipe the objective lens lightly with a lens cleaning paper moistened with lens cleaner.
  - 2) Starting from the center of the lens, wipe the lens in spirals toward the circumference.
  - 3) Change the lens cleaning paper and wipe the objective lens until the dirt is gone and there are no streaks.

### Forehead Rest / Chin Rest

Clean the intended parts with a sanitized gauze or a similar material that is moistened with disinfectant.

### Exterior Surface

If the exterior of this product is dirty, clean it according to the procedure below.

- 1 Turn off the power to this product.**  
Turn off the power switch and unplug the power cord from the AC outlet.
- 2 Wipe with a cloth soaked in cleanser.**  
Wipe it with a soft cloth that has been soaked in diluted neutral cleanser and well wrung out.
- 3 Wipe with a cloth soaked in water.**  
Wipe it with a cloth that has been soaked in water and well wrung out.

# Appendix

## Specifications

### Retinal Image

Resolution	63 lp/mm (center) 40 lp/mm (periphery)
Field angle	45°
Photographic magnification	1.1 x (image size on the sensor)
Required pupil diameter	4.0 mm or greater (3.3 mm when using small pupil photography function)
Working distance	35 mm
Focus adjustment range	- 13 to + 12 D (without compensation lens) - 30 to - 10 D (when using negative compensation lens) + 11 to + 33 D (when using positive compensation lens) (Split-line alignment type focusing) *1 D = 1 m <sup>-1</sup>
Range of motion	
Measurement unit	Up and down: 30 mm Right and left: 100 mm Back and forth: 70 mm
Chin rest	62 mm
Power supply rating	AC 100 to 240 V, 50/60 Hz, 1.9 to 1.0 A

## EMD (Electromagnetic Disturbances)

The CR-10 is designed and tested to comply with IEC 60601-1-2 (EN 60601-1-2) which is applicable regulations regarding EMD for medical devices and need to be installed and put into service according to the following information.

1. Medical electrical equipment needs special precautions regarding EMD and needs to be installed and put into service according to the information provided in the manual.
2. The CR-10 is suitable for use in hospital (professional healthcare facility) environments, with the exception of environments near active HF SURGICAL EQUIPMENT or the RF shielded room of an ME SYSTEM for magnetic resonance imaging, where the intensity of ELECTROMAGNETIC DISTURBANCES is high.
3. To maintain the optimum EMD performance, use only the designated cables.

Name	Type	Length	Remarks
AC Power Cord	Non-Shielded	3.0 m fixed-length	Supplied
USB Cable	Type A-typeC connector plug supporting USB 3.1 Super Speed	Max. 2.0 m	Not supplied

4. **WARNING:**  
Use of accessories, transducers and cables other than those specified or provided by Canon sales representative or local Canon dealer could result in increased electromagnetic emissions or decreased electromagnetic immunity of the CR-10 and result in improper operation.
5. **WARNING:**  
Use of the CR-10 adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, the CR-10 and the other equipment should be observed to verify that they are operating normally.
6. **WARNING:**  
Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the CR-10, including cables specified by Canon sales representative or local Canon dealer. Otherwise, degradation of the performance of the CR-10 could result.
7. Due to electromagnetic disturbances, it may be necessary for the customer or the user of this product to take the measurement again or to restart the equipment, the software or the computer.

## Electromagnetic Emission

The CR-10 is intended for use in the electromagnetic environment specified below. The customer or the user of the CR-10 should assure that it is used in such an environment.

Emission Test	Compliance	Electromagnetic Environment – Guidance
RF emissions EN 55011 CISPR11	Group 1	The CR-10 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electromagnetic equipment.
RF emissions EN 55011 CISPR11	Class B	The CR-10 is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions EN IEC 61000-3-2	Class A	
Voltage fluctuations/flicker emissions EN IEC 61000-3-3*	Complies	

\* Not applicable to regions where the rated voltage is less than 220 V.

## Warranty and Repair Service

### Service Life

The service life of this product is eight years if specified inspections and maintenance are performed.

## Technical Description

For the technical description, see the operation manual of the product.











\*BT8-2172-EN03\*

# Canon



Manufacturer:  
CANON INC.

30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan

Telephone: (81)-3-3758-2111