

Canon

Digital Retinal Camera

CX-1

Instructions for Use

CE
UK
CA

For European Union

Important Information

- This product must only be used by a doctor or a legally qualified person.
- 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.

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

Features

The Canon Digital Retinal Camera is used to observe the retinas of patients' eyes and take photographs of them.

Indications for Use

The device is intended to be used for taking digital images of retina of human eye with non-mydratic and mydratic.

Composition

- Digital Retinal Camera
- Digital camera
- Control Software

Optional products

Internal eye fixation target
Chin rest paper—500 sheets

Software Operating Environment

Each software runs under the following operating environment.
For details on the system, contact your sales representative or local Canon dealer.

RX Capture for Retinal Camera

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
Hard disk	500 GB or more: RAID-1 (mirroring); 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 2.0
Network	1000BASE-T or more
OS	Microsoft Windows 11 Pro Version 23H2 or later (64-bit)* Microsoft Windows 11 Pro Version 24H2 or later (64-bit)*
Application software	Microsoft .NET Framework Version 4.8 SQL Server 2019 Express US version (64-bit)
Mouse	Wheel mouse

* Touch screen operations are not supported.

2 Safety

Regulatory Information

CE marking

This device complies with the following:

- Regulation (EU) 2017/745
- Directive 2011/65/EU

For European Union

Notification of Serious Incident

Any serious incident (defined in Article 2(65) of the Regulation (EU) 2017/745) that has occurred in relation to the device 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

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.

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

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

Do not clean this product with flammable solvent.

For safety reasons, before cleaning this product, be sure to turn off the power of all the devices and unplug the power cord from the AC outlet. Do not use alcohol, benzene, thinner or any other flammable solvent.

Otherwise, fire or electric shock may result.

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

Otherwise, electric shock may result.

Use an isolation transformer when this system is connected to a network.

Connect an isolation transformer conforming to IEC 60601-1 for networks between the computer and HUB.

Otherwise, there is a risk of electric shock if the network is faulty.

Do not use or store the instrument in a location with the conditions listed below.

- Close to facilities where water is used.
- Where it will be exposed to direct sunlight.
- Close to air-conditioner or ventilation equipment.
- Close to heat source such as a heater.
- Surfaces or areas prone to vibration.
- Insecure place.
- Dusty environment.
- Saline or sulfurous environment.
- High temperature or humidity.
- Freezing or condensation.

Place the instrument on a firm table.

Do not place it extremely near the edge of a table or it may fall and cause damage or injury.

Do not connect the instrument except in the manner specified.

Otherwise, fire or electric shock may result.

Also, when other equipment is going to be connected to the instrument using the connector for interface, be sure that leakage current is within the tolerable value.

For

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

Do not place your hands or fingers on the base.

Your hand or fingers may be pinched and injured when the stage moves to either side. Similarly, instruct the patient not to place his/her hands or fingers on the base.

Do not hit or drop the instrument.

The instrument may be damaged if it receives a strong jolt, which may result in fire or electric shock if the instrument is used without first being repaired.

Do not hold the head rest or digital camera when moving this product.

When carrying this product, be sure to tighten the stage lock, the panning lock knob and the tilting lock lever, hold the carrying indentations at the left and right of the base panel, and keep this product level. Do not hold it by the digital camera or the head rest or any other parts, as they may come off and result in injury.

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

Use the equipment conforming to IEC 60601-1 in the patient environment.

Use the computer, monitor, and other equipment that conform to the system standard IEC 60601-1 or IEC 62368-1 for this product. Be sure that the entire system conforms to IEC 60601-1. Be sure to also use an isolation transformer conforming to IEC 60601-1 when a computer or monitor conforming to IEC 62368-1 is used. Otherwise, electric shock may occur. For details, please contact your sales representative or local Canon dealer.

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 incorrect, patients may be mixed up and misdiagnosed, which may result in physical injury to the patient.

Keep the forehead rest and chin rest clean.

To prevent the risk of infection, wipe the forehead rest with disinfectant ethanol for each patient. To ensure cleanliness, replace the chin rest paper for each patient. If the chin rest paper is not being used, be sure to disinfect the chin rest for each patient. If the chin rest paper is not being used, be sure to disinfect the chin rest for each patient. For details on how to disinfect, consult a specialist. The forehead rest may be corroded if a disinfectant other than those above is used.

Slowly move the main unit toward the patient's eye when taking an image.

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

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

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 present that can affect image readings or diagnosis.

Be sure to turn off the power when not in use.

For safety reasons, be sure to turn off the power of all the devices when this product is not being used. Also, unplug the power plug from the AC outlet and put on the cover when this product is not going to be used for a long time.

Otherwise, dust or any foreign matter may accumulate and result in fire.

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

Doing so might damage the computer or corrupt the data.

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

Doing so might damage the computer or corrupt the data.

When you are using this product together with any equipment that may generate power supply noise, power supply voltage fluctuation, electromagnetic waves, or other disturbances, check if this product works properly.

Such equipment may cause malfunctions or other trouble.

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

If changes are made while the control software is running, it may not function properly.

Do not operate the retinal camera while operating the control software

Otherwise, the control software may not function properly.

After taking the image of the retina, do not operate the control software until transferring of the image is completed.

Otherwise, the control software may not function properly.

Do not turn off the computer while the control software is running.

Be sure to exit the control software before shutting down the computer. Doing so the measured data is not saved correctly or might corrupt the data.

On the Patient Info Edit screen, use care when editing the patient information.

Regardless of all the essential data, input-disabled data and input format settings which were set on the Study Input/Manual Input screen, all the data can be changed and input.

Be sure to log off the control software when not in use.

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

Maintain and manage the operating environment of the control software properly.

If you add, change or update the OS, driver, or other software after installing the control software, the control software may not function properly. Contact your sales representative or local Canon dealer beforehand.

Do not change the Windows Update settings.

Otherwise, the updates and upgrades for Windows automatically start. While updating or upgrading Windows, the control software may operate slowly or may not be able to operate. The control software also may not function properly after updating or upgrading Windows.

Precautions for IT security

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.

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.

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.

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.

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.

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.

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.

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

Otherwise, this software may not function properly.

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 15)

Notes on Using This Product

Digital camera

- The attached digital camera is designed for this product. The specifications differ from commercially available Canon digital cameras. Use only for observing and taking photographs of peoples' eyes. Do not detach the digital camera from the main unit to use separately. Otherwise, failure of this product may result.
- If any problems occur or repairs are needed with this product's digital camera, contact your sales representative or local Canon dealer.

Before use

- Inspect this product daily. Make sure that no foreign matter is present that can affect image readings or diagnoses.
- Check and clean the objective lens before taking an image. Any stains or scratches on the objective lens will appear as white spots.
- 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. In this case, wait until condensation disappears before taking images.
- Do not touch the lens of the retinal camera or the mirror of the digital camera when attaching and detaching the digital camera from the retinal camera. If any dirt, fingerprints, dust, or other foreign objects are on the lens or mirror, you will not be able to take a good image.
- Be sure to adjust the diopter of the viewfinder to match the diopter of the photographer's eye. Otherwise, focusing will not be able to be performed correctly.

After use

- After using this product, turn off the power, cover the objective lens with the objective lens cap to protect it from dust, and place the dust cover over this product. You cannot take good images if the objective lens is dusty.
- If the digital camera is detached and left unattached, dirt and dust may enter the retinal camera and the digital camera. Be sure to always attach the caps to their respective mounts.

Cleaning and disinfection

- Do not allow the blower to touch the lens.
- Do not wipe or rub the lens if there is dirt or dust on it. Doing so could scratch the lens.
- Do not wipe the lens with disinfectant ethanol, eyeglass cleaner, or silicone-coated paper. Doing so could corrode the surface of the lens or leave streaks.
- Do not clean the outside of this product with a lens cleaner. Doing so could damage the outside of this product.
- Never use alcohol, benzine, thinner, or other solvents to clean the outside of this product. Doing so damages the outside of this product.
- Never use disinfectant ethanol to clean the outside of this product, with the exception of the forehead rest and the chin rest. Doing so damages the outside 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.
- For information about lens cleaning paper, lens cleaner, and blowers, contact your sales representative or local Canon dealer.

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)	700 to 1060 hPa
Storage and transportation environment	–30 to 50°C	10 to 95% RH (no condensation)	700 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 a malfunction or misoperation.
- When this product is not being used, attach the objective lens cap and place the dust cover over this product.

Installation

- Request your sales representative or local Canon dealer to install this product.
- A strong shock to this product may put it out of alignment. Please handle the unit carefully.

Transportation

- When lifting the main unit, do not hold the head rest or digital camera. Hold the main unit by the indentations for lifting at its front and rear, and keep it level.
- When transporting this product, align the stage with the base, and then lock the stage with the stage lock lever.
- This product needs to be protected from vibration and shocks when it is transported in a vehicle or over long distances. For details, contact your sales representative or local Canon dealer.

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>.

Symbols on the labels and their meanings

	Alternating current	
	Type B	
	Product that WEEE directive, Directive on Waste Electrical and Electronic Equipment, requires separate collection. The directive is effective in the European Union only.	
	Symbol for "Consult instructions for use".	
	This symbol indicates medical device which complies with the Regulation (EU) 2017/745	
	Symbol for "Authorised Representative in the European Community".	
	Manufacturer's name and address	
	Month and year of manufacture	Example: November 2014
	Serial number in six digits	Example: 123456

3 Basic Operations

Connecting Cables

- 1 Make sure that the power switch for this product is turned off.
- 2 Connect the power cord and the USB cable to the retinal camera.
- 3 Insert the power plug all the way into an AC outlet.

Preparing for an Examination

- 1 Turn on the computer and start the control software.
- 2 Remove the objective lens cap and turn the retinal camera's power switch to the ON position.
- 3 Select the observation mode.
- 4 Select the photography mode.

Patient Setup

- 1 Start an examination on the control software.
- 2 Seat and position the patient.
- 3 Move the chin rest with the CHIN REST button so that the patient's eye is aligned with the height adjustment mark.
- 4 Move the stage toward the eye to be photographed.

Alignment and Photography

- 1 Align the retinal camera with the eye to be photographed.
- 2 Adjust brightness in the field of view for observation.
- 3 Determine the area to be photographed.
- 4 Focus on patient's eye.
- 5 Take the image.
- 6 Check the photographed image.

Finishing an Examination

- 1 End the examination on control software.
- 2 Align the stage with the base and slide the stage lock to LOCK side to lock the stage.
Turn off the power to this product.
- 3 Exit the control software and turn off the computer.

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 click [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 RC/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

Click [Full Backup] or [Incremental Backup].

Backup starts.

Click [Cancel] to cancel the backup.

Displaying the Backup Log

When the [Backup Logs] tab is clicked, 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 click [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

Checks before turning on the power

Check the following items before turning on the power.

Cables

- 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 the main unit and the AC outlet.

Main unit

- 1) The digital camera cover and parts are not damaged or loose.
- 2) The stage moves when the operation lever is tilted back and forth and right to left.
- 3) The digital camera is securely installed.
- 4) The stage lock operates properly.
- 5) There are no scratches or dirt on the objective lens. Clean the objective lens if it is dirty.
- 6) Turn the operation lever, and check that the retinal camera main unit moves smoothly up and down as far as the upper and lower limits.
- 7) Check that the panning and tilting operations can be performed smoothly, and that there are no unusual sounds. Also check that the locking of the panning and tilting operates properly.
- 8) Check that there is no dust or other substances on the viewfinder.

Checks after turning on the power

Turn on this product and start the control software. Check the following items after starting an examination.

Main unit

- 1) The POWER lamp lights.
- 2) Place a sheet of paper in front of the objective lens, turn the brightness adjuster, and check that the brightness for observation changes.
- 3) Place a sheet of paper in front of the objective lens and press the shutter release button to confirm that the flash has emitted.
- 4) Set to fluorescein angiography mode and press the TIMER/C switch to check that the timer starts and stops properly.
- 5) The chin rest moves up and down as the CHIN REST button is pressed.

Photographed image

- 1) Foreign objects that affect the reading of the images or diagnosis do not appear in the photographed image. Place a piece of white paper in front of the objective lens and photograph an image under the following conditions:
 - Flash intensity: Standard
 - Diopter compensation: lever: 0
 - Focus knob: Turn the knob on the right (viewed from you) all the way clockwise.

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

Resolution	63 lp/mm (center), 40 lp/mm (periphery)
Field angle	Mydriatic mode 50°, Non-mydriatic mode 45°
Photographic magnification	1.1 x (image size on the sensor)
Required pupil diameter	
Mydriatic mode	ø 5.1 mm or more; ø 4.3 mm or more when SP function works
Non-mydriatic mode	ø 4.3 mm or more; ø 3.8 mm or more when SP function works
Working distance	35 mm
Focus adjustment range	-10 to +15 D (without compensation lens) -31 to -7 D (when using negative compensation lens) +11 to +33 D (when using positive compensation lens) (Split-line alignment type focusing) * 1 D = 1 m ⁻¹
Viewfinder diopter range	±5 D
Range of motion	
Stage	110 mm side to side, 65mm front to back
Main unit vertical movement	30 mm
Chin rest range of motion	60 mm
Panning	30° to the right and left
Tilting	15° up and 10° down
Rated power supply	AC 100 V to 240 V, 50/60 Hz, 8 A to 4 A

EMD (Electromagnetic Disturbances)

This product 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. This product 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	Shielded	Max. 3.0 m	Not supplied
HDMI Cable	Shielded	Max. 2.7 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 this equipment and result in improper operation.
5. **WARNING:**
Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment 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 this product, including cables specified by Canon sales representative or local Canon dealer. Otherwise, degradation of the performance of this equipment 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

This product is intended for use in the electromagnetic environment specified below.
 The customer or the user of this product should assure that it is used in such an environment.

Emission Test	Compliance	Electromagnetic Environment – Guidance
RF emissions EN 55011 CISPR11	Group 1	This product 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	This product 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.

Expendable parts replaced by service personnel

The following parts are consumable or may deteriorate because of characteristics of their material or construction.

These parts cannot be replaced by the user. If these parts are found to be worn out or to have deteriorated during daily or regular inspection, contact your sales representative or local Canon dealer for repairs.

- Baseboard (USB connector)
- Xenon flash tube for photography
- Halogen lamp for observation

Technical Description

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



BT8-1757-EN06

Canon

Manufacturer:



CANON INC.

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

Telephone: (81)-3-3758-2111