



DIGITAL RADIOGRAPHY

**CXDI-710C Wireless**  
**CXDI-810C Wireless**  
**CXDI-410C Wireless**

Instructions for Use

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# To customers

## Important information on usage and management of the product

1. This product complies with local radio frequency regulations in the country or region where you purchased the product. Note that it cannot be used in any other areas. When using the product, follow the notes on radio frequency in this manual.
2. Only a physician or a legally certified operator shall use the product.
3. The product shall be maintained in a safe and operable condition by maintenance personnel.
4. Note that the entire radiography system, including the product, is required to comply with IEC 60601-1. ME equipment connected to the product, such as X-ray generators, must comply with IEC 60601-1, and image-capture computers and displays used outside the patient environment must comply with IEC 62368-1, CISPR 32, and CISPR 35 or equivalent safety standards. For further details, consult your sales representatives or local Canon dealers.
5. Connection of a system that uses the 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.
6. For U.S.A.  
Rx only-Caution:  
Federal law restricts this device to sale by or on the order of a licensed practitioner.

## Note on installation

- Request your sales representative or local Canon dealer to install the product.

## Notes on disposal of the product

- 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>.

# 1 Safety information

## 1.1 Safety precautions

Follow these safeguards and properly use the equipment to prevent injury and damage to any equipment/data.

### Operating/storage environment

- **Do not use or store the equipment near flammable chemicals such as alcohol, thinner, benzine, etc.**

If chemicals are spilled or evaporate, it could result in fire or electric shock through contact with electric parts inside the equipment. Also, some disinfectants are flammable. Be sure to take care when using them.

- **Do not connect the equipment with anything other than specified.**

Doing so could result in fire or electric shock.

- **Do not install or store the equipment in any of the locations listed below.**

Doing so may result in failure or malfunction, equipment falling, or fire or injury.

- Close to facilities where water is used
  - Where it will be exposed to direct sunlight
  - Close to the air outlet of an air-conditioner or ventilation equipment
  - Close to a heat source such as a heater
  - Where the power supply is unstable
  - On the floor
  - In a dusty environment
  - In a saline or sulfurous environment
  - Where temperature or humidity is high
  - Where there is freezing or condensation
  - In areas prone to vibration
  - On an incline or in an unstable area
- **Be sure that the patient is in continuous contact with the surface of the detector for less than 10 minutes. Depending on the heat generated by the internal device, the temperature of the detector's surface may increase by up to 10°C. Avoid prolonged contact with the surface of the detector in order to decrease physical stress and the possibility of low-temperature burns due to contact with the patient's skin.**

- **When using the detector, if you observe an abnormal rise in temperature above the temperatures listed below, stop using it immediately and contact your sales representative or local Canon dealers.**

**The maximum temperature of the detector: 45°C\*.**

\* This is measured during Canon's maximum load test when the ambient temperature is set to 35°C.

### **Power supply and cables**

- **Do not place heavy object such as medical equipment on cables and cords, or do not pull, bend, bundle, or step on them to prevent their sheath from being damaged, and do not alter them neither.**

Doing so may damage the cords which could result in fire or electric shock.

- **Do not turn ON the system power when condensation has formed on the equipment.**

Doing so could result in fire or electric shock.

- **When using the equipment's wiring cable or the PC Connection Cable, it becomes weakly magnetized. When exposing patients with cardiac pacemakers to X-rays, always make sure that the patients have no problems during exposure.**

If a problem occurs, keep the equipment (wiring cable or PC Connection Cable) away from the patients and consult your doctor.

- **Always connect the three-core power cord plug to a grounded AC power outlet.**
- **To make it easy to disconnect the plug at any time, avoid putting any obstacles near the outlet.**

Otherwise, it may not be possible to disconnect the plug in an emergency.

- **Because the equipment cable is long, take care that cables do not become tangled during use. Also, be careful not to get your feet caught in the cable.**

Otherwise, it may cause a failure of the equipment or the injury of the user due to tripping over the cable.

- **Do not charge a deteriorated battery.**

Using a battery that has exceeded its product life may lead to overheating, fire, or explosion.

- **Do not charge the battery when the equipment is covered with an object (such as a cloth).**

Doing so may result in overheating or fire.

### Handling

- **Do not place anything on top of the equipment.**

The object may fall and cause an injury. Also, if metal objects such as needles or clips fall into the equipment, or if liquid is spilled, it could result in fire or electric shock.

- **Do not hit or drop the equipment. Handle the equipment carefully as it is precision equipment.**

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

- **Attach the battery pack carefully.**

- **Make sure that the battery pack is correctly attached.**

- **Have the patient take a fixed posture and do not let the patient touch parts unnecessarily.**

If the patient touches connectors or switches, it could result in electric shock or malfunction of the equipment.

- **Always confirm that there is no problem with the CXDI system or the patient during use. If a problem occurs, take appropriate measures, such as shutting down the system.**

- **The equipment is resistant to water. However, note the following precautions before using the equipment.**

The ingress of water may damage the equipment and cause a fire or electric shock.

- Do not submerge the equipment in water.
- If the equipment gets wet, use a dry soft cloth to wipe it completely dry.
- Securely close and lock the battery cover.
- Do not open or close the battery cover when the equipment gets wet.
- If necessary, wrap the equipment in a disposable cover to prevent the risk of infection.
- The battery cover is a consumable item. If the battery cover is deformed or the packing is damaged or cracked, replace the battery cover with a new one. If a deteriorated battery cover continues to be used, water leakage may occur.
- Junctions between the wiring cable and Multi Box and between the PC Connection Cable and laptop computer are not resistant to water.

- **Turn OFF the power to each piece of equipment for safety when not being used.**

- **Do not place excessive weight on the equipment.**

**Do not use the equipment in a manner that will subject it to local loads of 100 kg or more.**

If the load exceeds the limit, the inner device may be damaged.

- **Do not touch the electrode terminals of the equipment and the battery pack.**

- **Be sure to use the equipment on a flat surface while using it in horizontal position.**

If the detector is set on a diagonal and pressure is applied to it, the inner device may be damaged.

- **Be sure to securely hold the equipment while using it in upright positions.**  
Otherwise, the equipment may fall over, resulting in injury to the user or patient, or may flip over, resulting in damage to the inner device.
- **Be sure to use only the dedicated battery pack for this product.**
- **When performing exposure in Non Generator Connection Mode, images may not be acquired because the exposure conditions, such as X-ray exposure conditions or target body positioning, are not effective.**
- **If battery liquid leaks and comes into contact with your skin or clothes, immediately wash it off with tap water, etc.**  
  
The contact with the battery liquid may cause skin irritation.
- **While preparing for examinations, be sure to confirm that the entered information (patient name, ID number, date of birth, and sex) matches that of the patient.**  
  
If the information is incorrect, the resulting patient mix-up and a misdiagnosis may cause harm to the patient.
- **Be sure to use the [Emergency] button only for an emergency examination.**  
  
If not heeded, the resulting patient mix-up and a misdiagnosis may cause harm to the patient.
- **In Non Generator Connection imaging, avoid doing the following actions to the detector when [Ready] is displayed in the system status indicator.**  
  
Otherwise, the detector may acquire an image without exposure.
  - Giving a strong shock and vibration.
  - Using the detector in a location where static electricity is easily generated.
  - Using the detector in a location where electromagnetic wave noise is strong.
- **Instruct the patient not to move during the examination. If necessary, help the patient to maintain the proper posture.**  
  
If the patient moves during the examination, it may fail to obtain the appropriate images.

#### **When a problem occurs**

- **Should any of the following occur, immediately turn OFF the power to each piece of equipment, unplug the power cord from the AC outlet, and contact your sales representative or local Canon dealer:**
  - When there is smoke, an odd smell or abnormal sound
  - When liquid has been spilled into the equipment or a metal object has entered through an opening
  - When the equipment has been dropped and is damaged

### Inspection, disinfection, and cleaning

- **Do not use flammable solvents to clean the surface of the equipment.**

When the equipment is going to be cleaned, be sure to turn OFF the power to each piece of equipment, remove the battery pack, and unplug the power cord from the AC outlet. Never use alcohol, benzene, thinner or any other flammable solvents. Otherwise, it could result in fire.

- **Clean the plug of the power cord periodically by unplugging it from the AC outlet and removing dust or dirt from the plug, its periphery and AC outlet with a dry cloth.**

If the cord is kept plugged in for a long time in a dusty, humid or sooty place, dust around the plug will attract moisture, and this could cause insulation failure that could result in a fire.

- **After every examination, wipe the patient contact surfaces of the detector using a disinfectant such as disinfecting ethanol to prevent the risk of infection.**

A blood infection or other causes may result in the onset of an infectious disease. For details on how to disinfect, consult a specialist.

- **Do not spray the detector directly with disinfectants or detergents.**
- **Always keep this product and other equipment clean and remove all dust and dirt.**

Dust and dirt may cause malfunctions of the equipment included in the radiography system, such as this product and computers.

- **When cleaning the battery pack, wipe it with a cloth slightly dampened with water or diluted neutral detergent.**

The battery pack is not protected against liquids. When cleaning the battery pack, wipe it carefully so as not to spill the detergents onto the electrodes.

- **Dry the battery pack completely after cleaning, and attach it to the equipment.**
- **When cleaning any other parts than the sensor side of the detector, wipe them carefully so as not to spill the detergents onto the battery pack attachment portion (electrodes).**
- **Use a neutral detergent to clean the surface of the equipment. Do not use solvents such as absolute alcohol, thinner or benzene. Doing so may damage the surface of the equipment and the wiring cable.**
- **Dry the detector completely after disinfecting or cleaning it.**

## 1.2 Notes on radio frequency

This product complies with local radio frequency regulations in the country or region where you purchased the product. Note that it cannot be used in any areas other than the country or region of its purchase.

In the frequency band used by this product, not only industrial, scientific and medical equipment such as microwave ovens but also premises radio stations (license required) and specified low-power radio stations (license not required) for mobile object identification such as used in factory manufacturing lines, etc., and amateur radio stations (license required) may be in operation. Use of this product may cause radio interference with the above equipment and radio stations, so be sure to understand the following precautions before use.

- Before using this product, make sure that there are no premises radio stations and specified low-power radio stations for mobile object identification operating nearby.
- In the event that radio waves from this product cause harmful interference to premises radio stations for mobile object identification, immediately stop using the product and contact your sales representative or local Canon dealers.
- Also contact your sales representative or local Canon dealers if other problems occur, such as harmful radio interference from this product to specified low-power radio stations for mobile object identification or amateur radio stations.
- 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.
- **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.
- To maintain the optimum EMD performance, use only the designated cables.
- **WARNING:**  
Use of equipment, 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.
- **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 detector, including cables specified by Canon sales representative or local Canon dealer. Otherwise, degradation of the performance of this equipment could result.

## 1.3 Notes for using the equipment

When using the equipment, take the following precautions. Otherwise, problems may occur and the equipment may not function correctly.

### **Before use**

- Sudden heating of the room in cold areas will cause condensation to form on the equipment. In this case, wait until the condensation evaporates before performing an exposure. If the equipment is used while condensation is formed on it, problems may occur. When an air-conditioner is used, be sure to raise/lower the temperature gradually so that a difference in temperature in the room and in the equipment does not occur, to prevent condensation.

### During use

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- Confirm that [Ready] appears in the system status indicator of the CXDI Control Software and press the exposure switch.
- To reduce exposure to RF energy, keep hands and other body parts out of close contact with the wireless module on the detector.
- Do not use the detector near devices generating a strong magnetic field. Doing so may produce image noise or artifacts.
- Avoid unnecessary exposure for patients, especially for children. For details, be sure to read the precautions on radiation protection in the manual for the connected X-ray generator.
- The Docking Station is not protected (sealed) against liquids such as blood and medication in the operating room.
- Use the Docking Station indoors.
- Do not install the ready indicator and IR data communication unit such a position that its IR data port faces the monitor, reflector, or other IR data communication equipment, except for the detector.
- When changing or adding exposure conditions in Non Generator Connection Mode, be sure that Non Generator Connection Mode is fully operational before an exposure is performed on a patient. Images may not be acquired or an artifact may appear depending on the exposure conditions (X-ray dose, irradiation time, irradiation field or target body positioning) even if an exposure is performed.
- Before exposure in Standalone Mode, check operation in Non Generator Connection Mode.
- When performing exposure in Standalone Mode, do not remove the battery pack while images are being saved. This may prevent images from being saved.
- After exposure in Standalone Mode, always make a note of the counter number, patient name, date, time, imaged area, etc., which you will need when binding the study information to images on the CXDI control system.
- When using One Shot LL, setting by a service engineer can reduce the appearance of the FPD structure by correcting image quality at stitching boundaries and masking the FPD structure. However, subject anatomical structures are less distinct and some areas are erased. In particular, if a high X-ray absorbing entity such as an implant is located in overlapped area, black or white band-shaped artifacts are generated around it, and a structure different from the actual structure (including the implant etc.) may be displayed.
- Images and raw data stored on the recording medium in the equipment may become unreadable due to operation errors, equipment failure, or other unexpected events, so be sure to always store data on an external recording device (medium) or record it to film.
- Regardless of the radiography supporting information provided by the Camera Assist, be sure to verify the information by yourself. The Camera Assist may not be able to properly provide the information for supporting radiography.

### Disinfection and cleaning

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- When disinfecting the sensor side of the detector, wipe it with a disinfecting cloth appropriately damped with disinfectants such as disinfecting ethanol.
- When cleaning the detector, wipe it with a cloth slightly damped with diluted neutral detergents or disinfecting ethanol.

### Others

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- Do not use this product in combination with other equipment such as defibrillators or large electric motors as these may cause power-supply noise or power supply voltage variations. Doing so may prevent normal operation of this product and other equipment.
- This product may malfunction due to electromagnetic waves caused by portable personal telephones, transceivers, radio-controlled toys, etc. Be sure to avoid having objects such as these, which affect this product, brought near the product.
- When the detector will not be used for some time, remove the battery pack. Otherwise, overdischarge may occur, leading to a shorter battery life.

## 2 Introduction

This device provides digital image capture for conventional film/screen radiographic examinations. This device is intended to capture for display radiographic images of human anatomy, and to replace radiographic film/screen systems in all general purpose diagnostic procedures. This device is not intended for mammography applications. The image is obtained as the result of imaging X-rays passed through the human body with an X-ray flat panel detector and importing a digital signal output from the detector into the image processor.

## **3 Operating procedures**

### **3.1 Preparing to use the detector**

- 1 Charge the battery pack.**
- 2 Attach the battery pack.**
  - i)** Remove the battery cover.
  - ii)** Attach the battery pack.
  - iii)** Attach the battery cover.

### **3.2 Operating the detector**

- 1 Turn on the detector.**
- 2 Register the detector and make connection to the CXDI control system.**
- 3 Conduct examination.**
  - i)** Select or register the patient information.
  - ii)** Select the protocol.
  - iii)** Press the exposure switch.
  - iv)** Check the captured images.

### **3.3 Ending use of the detector**

- 1 Turn off the detector.**

## 3.4 List of detector status indication

### Standard Synchronization Mode

Detector state	READY LED	Exposed image counter
Linkage started	Flashing (3 sec. cycles) <sup>*1</sup>	Not illuminated
Switching to exposure ready status	Flashing	
Exposure ready status	Illuminated	
In sleep mode	Not illuminated	
Error	Flashing	Flashing error code <sup>*2</sup>

\*1 Only after linkage from the detector

\*2 Power LED also flashes.

## 3.5 List of lights / flashes / notification beeps of the ready indicator

### Standard Synchronization Mode

	Link (registration) completed	During exposure ready status	During exposure
		Start time	When the X-ray is exposed
LED lamp	The 2 LED lamps flash <sup>*1</sup> .	The 2 LED lamps light up weakly.	
Notification sound	Three-tone beep	Single beep	N/A

\*1 On/Off status changes three times every 0.5 seconds

## 3.6 Image processing adjustment

### To set the Elt value

Elt value can be set in the processing parameter edit screen of the CXDI Control Software. Enter a value in the Elt text box referring to the current EI value.

- EI (Exposure Index)  
EI is an approximative indicator of the dose that reaches the detector, as calculated per IEC 62494-1 standards from the captured images.
- Elt (Target Exposure Index)  
Elt is the target EI level.
- DI (Deviation Index)  
DI is a logarithmic index indicating the difference between the EI and Elt.

## 4 Troubleshooting

When you encounter problems described in this chapter or error messages in the CXDI Control Software while using this product, search the table in this chapter for the problem or error message and try the solutions.

If the problem persists, turn off the detector, consult your sales representative or local Canon dealer, and inform them of the details of the problem, error codes or error messages.

### 4.1 Symptom and remedy

Symptom	Cause/Error messages in the CXDI Control Software	Remedy
Power LED lamps flash (1-second cycles) and exposure is not possible.	No battery power.	Replace the battery pack with a fully-charged one and retry an exposure.

### 4.2 Error codes on the exposed image counter

Error code	Cause/Error messages in the CXDI Control Software	Required actions
02	Internal error	Restart the detector. If the problem persists even after this, contact your sales representative or local Canon dealer.
03		
04		
12		
15		
16		
24		
25		
33		

## 4 Troubleshooting

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Error code	Cause/Error messages in the CXDI Control Software	Required actions
47	It is time to replace the detector's internal memory. Exposure is not possible.	The internal memory must be replaced. Contact your sales representative or local Canon dealer.
48	A problem has occurred with the detector's internal memory.	Contact your sales representative or local Canon dealer.
99	Insufficient space in the detector's internal memory is preventing exposure.	Transfer images to the CXDI control system.

# 5 Maintenance

## Maintenance and inspection

If any problem is found during the following inspections and cannot be resolved, please contact your sales representative or local Canon dealer.

### Daily inspection

#### Cable

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- (1) Ensure that the cables are not damaged and the cable jackets are not torn so as to expose the inside of the cables.
- (2) Ensure that the power cord plugs are securely connected to both the equipment AC inlet and the AC outlet.
- (3) Ensure that there are no breaks or short-circuits in all pins of the detector connector plugs.
- (4) Ensure that there is no dust, dirt, or oil on the terminals of the wiring cable connector.

#### Detector

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- (1) Ensure that there are no loose or missing screws.
- (2) Ensure that there are no break or no deformation on the exterior of the detector.
- (3) Ensure that there is no dust or foreign matter on the battery bay connector.
- (4) Ensure that there are no breaks or short-circuits in the battery bay connector.
- (5) Ensure that there is no dust, dirt, or oil on the terminals of the cable connector.
- (6) Ensure that the battery cover is not damaged or bent.
- (7) Ensure that there is nothing wrong with the rubber in the battery cover (foreign objects, tears, cracks, etc.).

#### After turning on the power

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Be sure to start the CXDI Control Software before performing the following inspection.

- (1) Perform test exposure.  
Ensure that captured images are displayed normally on the monitor.

### Monthly inspection

- (1) Conduct a Performance Test.
- (2) Regularly conduct a Self-diagnosis.

### Yearly inspection

- (1) Perform a Performance Test or Self-diagnosis using a phantom or resolution chart, etc.
- (2) Check the EI value captured.

### Irregular inspection

- (1) Perform calibration in the following circumstances.
  - When exposure conditions have changed significantly
  - When images appear strange in some way
  - When the installation environment has changed significantly

# 6 Specifications

## 6.1 Main specifications

### Detector

Environmental requirements:

Operation

Temperature: 5°C to 35°C  
Humidity: 30% to 80% RH (without condensation)  
Atmospheric pressure: 613 to 1060 hPa

Storage (unpacked)

Temperature: 5°C to 40°C  
Humidity: 30% to 85% RH (without condensation)  
Atmospheric pressure: 613 to 1060 hPa

Transportation (in packages at point of purchase)

Temperature: -30°C to 50°C  
Humidity: 10% to 95% RH (without condensation)  
Atmospheric pressure: 613 to 1060 hPa

Applicable grid (Other devices): 34, 40, 52\*, 60\* lp/cm (\* recommended)  
(34 and 40 lp/cm have restrictions.)

Reducing scattered radiation: Even when a grid is not attached to the detector, the reduction in contrast caused by scattered radiation can be improved by image processing. Adjust the power of scatter correction by selecting the Effect check box to enable this control on the Scatter Correction control screen of the CXDI Control Software.

Rated power supply: 9 to 12 V DC, 2.00 A

Dimensions and mass

CXDI-710C Wireless: Approx. 384 x 460 x 15.7 mm  
Approx. 2.3 kg (incl. battery pack)  
CXDI-810C Wireless: Approx. 384 x 307.5 x 15.7 mm  
Approx. 1.8 kg (incl. battery pack)  
CXDI-410C Wireless: Approx. 460 x 460 x 15.7 mm  
Approx. 2.8 kg (incl. battery pack)

### Battery Pack LB-4A

Type:	Lithium ion battery
Operation temperature range:	5°C to 35°C
Rated voltage:	11.1 V DC
Capacity:	Typ. 1660 mAh / Min. 1600 mAh
Cycle life:	Approx. 300 cycles (fully charged to fully discharged)
Dimensions and mass:	Approx. 93 x 162 x 7 mm (excl. projecting parts) Approx. 160 g

### Image-capture computer

CPU:	4 or more Intel CPU cores
OS:	Microsoft Windows 10 (X64) RAM: Minimum 6 GB (minimum 8 GB when using Camera Assist function, minimum 16 GB when using Intelligent NR function) HDD: Minimum 50 GB free space Microsoft Windows 11 (X64) RAM: Minimum 16 GB HDD: Minimum 100 GB free space
Video card:	When using Intelligent NR function DirectX 10 compatible Min. 4,096 MB of VRAM Compute Capability 7.5 or above
Display:	Equipped with touch functionality (touch system: single touch) XGA (1024 × 768) or above, SXGA (1280 × 1024) or above
Communication interfaces:	
Card reader	
Connection interface	USB
Readable cards	JIS X6301 1998 compliant
Readable encoding	JIS-II
Power supply	USB bus power
	Complies with CISPR 32 or equivalent standards.
Barcode reader	
Connection interface	USB
Compatible encodings	Code39, Code93, Code128, JAN/EAN-8, JAN/EAN-13, Industrial 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI, NW-7, UPC-A, UPC-E, RSS, EAN-128, Plessey, PDF417
Power supply	USB bus power
	Complies with CISPR 32 or equivalent standards.

Video signal	
Angle of view	When making exposures at the minimum distance between the X-ray tube and the subject (excluding arms and legs), the angle of view must allow capture of the subject's head.
Resolution	Must be sufficient to maintain a vertical and horizontal resolution of 256 pixels or greater for each body part.
Image compression format	JPEG
Connection configuration	Ethernet
Image transfer protocol	Camera compatible with RTP or WV-HTTP (Canon proprietary)
IR data communication unit	
Used outside the patient environment.	
Complies with CISPR 32 or equivalent standards.	

## Compatible Canon DIGITAL RADIOGRAPHY systems

The product is compatible with the following Canon DIGITAL RADIOGRAPHY systems:

- CXDI-Elite
- CXDI-Pro
- CXDI-702C Wireless, CXDI-402C Wireless
- CXDI-701C Wireless, CXDI-701G Wireless, CXDI-801C Wireless, CXDI-801G Wireless, CXDI-401C Wireless, CXDI-401G Wireless
- CXDI-401C COMPACT, CXDI-401G COMPACT
- CXDI-501C, CXDI-501G

## Access point

Use a product that satisfies the following requirements:

- Supports IEEE 802.11n.
- Used outside the patient environment.
- Complies with CISPR 32 or equivalent standards.

## 6.2 Characteristics

### Spatial resolution properties

A typical MTF value at 2 cycle/mm, RQA5 is 0.35. The level of uncertainty is estimated as less than  $\pm 10\%$ .

### DQE

A typical DQE value at 4  $\mu\text{Gy}$  in 0 lp/mm is 0.6. The level of uncertainty is estimated as less than  $\pm 10\%$ .

# 7 Regulatory information

## 7.1 Medical equipment classification

Type of protection against electrical shock

Degree of protection against electrical shock

Internally powered equipment  
Class I Equipment, with Multi Box

Type B Applied Parts : Detector

## 7.2 CE marking

This product complies with the following:

Regulation (EU) 2017/745

Directive 2011/65/EU

Directive 2014/53/EU

Directive 2014/30/EU

Directive 2014/35/EU

## 7.3 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 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












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.

## 7.4 EMD (Electromagnetic Disturbances)

This product is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.

## 7.5 Details of markings on the equipment

	Direct current
	Alternating current
	Type B applied part
	Consult instructions for use
	Non-ionized radiation
	Manufacturer
	Date of manufacture
	Serial number
	This mark indicates that this equipment must be collected separately under the Directive on Waste Electrical and Electronic Equipment (WEEE) in the European Union.
	This mark indicates medical device which complies with the Regulation (EU) 2017/745.
	UK Responsible Person

# 8 System components

Component products are available either individually or as part of a set.

## CXDI-710C/810C/410C Wireless system

(Unit: pieces)

### Detector

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#### **CXDI-710C Wireless**

CXDI-710C Wireless detector .....	1
Battery pack: LB-4A .....	2
Colored labels (green, light blue, purple, orange) .....	4 each (16 total)

#### **CXDI-810C Wireless**

CXDI-810C Wireless detector .....	1
Battery pack: LB-4A .....	2
Colored labels (green, light blue, purple, orange) .....	4 each (16 total)

#### **CXDI-410C Wireless**

CXDI-410C Wireless detector .....	1
Battery pack: LB-4A .....	2
Colored labels (green, light blue, purple, orange) .....	4 each (16 total)

### **Multi Box: MB-4A (sold separately, optional)**

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Multi Box.....	1
Power cord .....	1
X-ray interface cable .....	1

### **Docking Station: DS-4A (sold separately, optional)**

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Docking Station .....	1
Power cord .....	1

### **CXDI Control Software**

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CXDI Control Software NE .....	1
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## Canon optional parts

### Multi Box: MB-4A

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Multi Box.....	1
Power cord .....	1
X-ray interface cable .....	1

### Docking Station: DS-4A

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Docking Station .....	1
Power cord .....	1

### Wiring cable: WC-4A

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### Wiring cable: WC-4A-2m

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### Status indicator: SI-4A

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### Battery Pack: LB-4A

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### Ready indicator: RI-3A

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Hook-and-loop fastener (fastener hooks, fastener loops) (One pair is already applied to the product) .....	3 pairs
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### PC Connection Cable: CP-4A

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### Battery Charger: BC-01

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Battery charger.....	1
AC adapter .....	1
Power cord .....	1

### Battery Charger: BC-1A

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Battery charger.....	1
Power cord .....	1

## Optional function of software

**One Shot LL for CXDI Series<sup>\*1</sup>**

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**Scatter Correction for CXDI Series<sup>\*2</sup>**

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**Advanced Edge Enhancement<sup>\*3</sup>**

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**Free Rotation for CXDI Series<sup>\*4</sup>**

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**Intelligent NR<sup>\*5</sup>**

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**Camera Assist<sup>\*6</sup>**

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\*1 Generate long-length imaging.

\*2 Improve the reduction in contrast caused by scattered radiation.

\*3 Enhance the display of catheters, bony parts, such foreign matter as gauze, etc., in a captured image.

\*4 Images can be rotated one degree at a time.

\*5 Perform noise reduction for images using AI (artificial intelligence).

\*6 Supports the positioning of radiography by judging consistency between positioning and protocols based on the videos taken of a patient.

## 9 Service information

### Product lifetime

The estimated product lifetime may be up to seven years under appropriate regular inspection and maintenance.

### Regular inspection and maintenance

In order to ensure the safety of patients, operating personnel and third parties, and to maintain the performance and reliability of the equipment, be sure to perform regular inspection at least once a year.

### Replacement parts support

Performance parts (parts required to maintain the functioning of the product) of this product will be stocked for 8 years after discontinuance of production, to allow for repair.

### Consumables

The following consumable can deteriorate because of its characteristics and structure. For purchase of consumables, contact your sales representative or local Canon dealer.

- Battery Pack LB-4A (Cycle life: Approx. 300 cycles)
- Battery cover (Replacement period: Approx. every 2 years)

### Technical Description

For the technical description, see the user's manual of the product.











\*BT8-1846-EN04\*

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