

Specifications

| | CXDI-40C System | CXDI-40G System | CXDI-50G System | CXDI-31 System |
|--------------------------------------|---|--|--|---|
| Purpose | General radiography | | General radiography | |
| Method | Flat panel detector: scintillator & Amorphous Silicon (a-Si) | | Flat panel detector: scintillator & Amorphous Silicon (a-Si) | |
| Detector | LANMIT 5 | LANMIT 3 | LANMIT 4 | LANMIT 2 |
| Scintillator | CSI (CsI:Tl) | GOS (Gd ₂ O ₂ S:Tb) | GOS (Gd ₂ O ₂ S:Tb) | |
| Grid | Choice of 10:1, 12:1 (180 cm), 10:1, 8:1 (110 cm), etc., removable | | Choice of 10:1 (180 cm), 6:1 (150 cm), 8:1, 4:1 (110 cm) | Choice of 4:1, 8:1, 10:1 (110 cm), removable |
| Application | Available with table, upright stand, universal stand or other stands | | | |
| Pixels | 2,688 x 2,688 (7.2 M) | | 2,208 x 2,688 (5.9 M) | 2,256 x 2,878 (6.5 M) |
| Image size (automatic sizing) | Up to 43 x 43 cm (17" x 17") | | Up to 35 x 43 cm (14" x 17") | Up to 22.6 x 28.8 cm (9" x 11") |
| Pixel pitch | 160 x 160 microns | | 160 x 160 microns | 100 x 100 microns |
| A/D | 14 bit | | | |
| Grayscale | 4,096 grayscale (12 bit) | | | |
| Preview image access time* | Approx. 3 seconds after x-ray exposure | | Approx. 3 – 5 seconds | Approx. 3 seconds |
| Total image processing* | Approx. 20 seconds after x-ray exposure | | Approx. 20 seconds after x-ray exposure | |
| Interface | DICOM 3.0, Ethernet 10/100 Base T | | DICOM 3.0, Ethernet 10/100 Base T | |
| Data output | DICOM 3.0, Print Management Service Class (SCU), Storage Service Class (SCU), JPEG transfer syntax available | | DICOM 3.0, Print Management Service Class (SCU), Storage Service Class (SCU), JPEG transfer syntax available | |
| Storage | Temporary storage available in Control PC | | | |
| Voltage | 100V, 120V, 230/240V (50/60Hz) | | 100V, 120V, 230/240V (50/60Hz) | |
| Power consumption | 300VA maximum | | 200VA maximum | 300VA maximum |
| Operation environment | 5 – 35°C (41 – 95°F), 30 – 75% RH (non-condensing) | | 5 – 35°C (41 – 95°F), 30 – 75% RH (non-condensing) | 10 – 35°C (50 – 95°F), 30 – 75% RH (non-condensing) |
| Certification | FDA510(k), FC Class A, UL 2601-1, EN60601, CE0197 | | FDA510(k), FC Class A, UL 2601-1, EN60601, CE0197 | |
| Dimensions (W x L x H) | Sensor Unit | | | |
| | Upright Stand Type: 554 x 550 x 118.7 mm, 27 kg (w/o grid) (21.8" x 21.7" x 4.7", 59 lbs.) Table Type: 550 x 589 x 67.5 mm, 21 kg (w/o grid) (21.7" x 23.2" x 2.7", 46.7 lbs.) Universal Type: 554 x 550 x 101 mm, 21 kg (w/o grid) (21.8" x 21.7" x 4", 45.9 lbs.) | 491 x 477 x 23 mm, 4.8 kg (19.3" x 18.8" x 0.9", 10.6 lbs.) | 324 x 327 x 20 mm, 2.8 kg (12.8" x 12.9" x 0.8", 6.2 lbs.) | |
| | Operation/Preview Panel | 399 x 394 x 150 mm, 6.6 kg (15.7" x 15.5" x 5.9", 14.5 lbs.) | | |
| | Control PC | 300 x 502 x 593.5 mm, 27.0 kg (11.8" x 19.8" x 23.4", 59.5 lbs.) | | |

* Actual times may vary due to various factors.

Other options

Please contact an authorized Canon dealer.

- HIS/RIS communication:
- DICOM Basic Modality Worklist Management Service Class (SCU)
 - DICOM Modality Performed Procedure Step Service Class (SCU)
 - Other non-DICOM communication

X-ray generator communication

LANMIX LANMIX is a new name that represents the total solution offered by Canon, through the combination of our LANMIT (Large Area New-MIS Sensor and TFT) detector and other X-ray imaging equipment and software. In the future, expect more great systems from Canon under this new name.

Specifications are subject to change without notice.

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Canon

Digital Radiography SYSTEM OVERVIEW

CXDI-40G / CXDI-40C / CXDI-50G / CXDI-31 / DR Image Viewer



The World's Most Versatile
Lineup of DR Systems



LANMIX

Better Imaging and Better Care Begin with Canon

For unmatched efficiency with digital image capture, take advantage of a Canon Digital Radiography (DR) system—in just seconds after x-ray exposure, an image appears on-screen, ready for confirmation. Canon also provides the most versatile lineup of DR systems available to meet general radiographic needs. Canon portable systems, for example, bring the benefits of DR to a wider scope of situations than ever, including challenging applications such as trauma imaging and bedside exams. Each Canon DR system features our innovative Flat Panel Detector technology, trusted by leading healthcare facilities worldwide for its exceptional quality and durability. Helping you deliver better patient care today—Canon Digital Radiography.



CANON DIGITAL RADIOGRAPHY

CXDI-40G



Ideal for a wide range of general radiographic applications

General Systems

CXDI-40C



New to the lineup, offering higher sensitivity

CXDI-50G



A portable DR system with a large imaging area

Portable Systems

CXDI-31



The lightest & most compact DR system of its kind

DR Image Viewer



A viewing system that fits your budget and grows with your needs

Viewing System

Greater efficiency at every step, from image capture to network distribution of images.

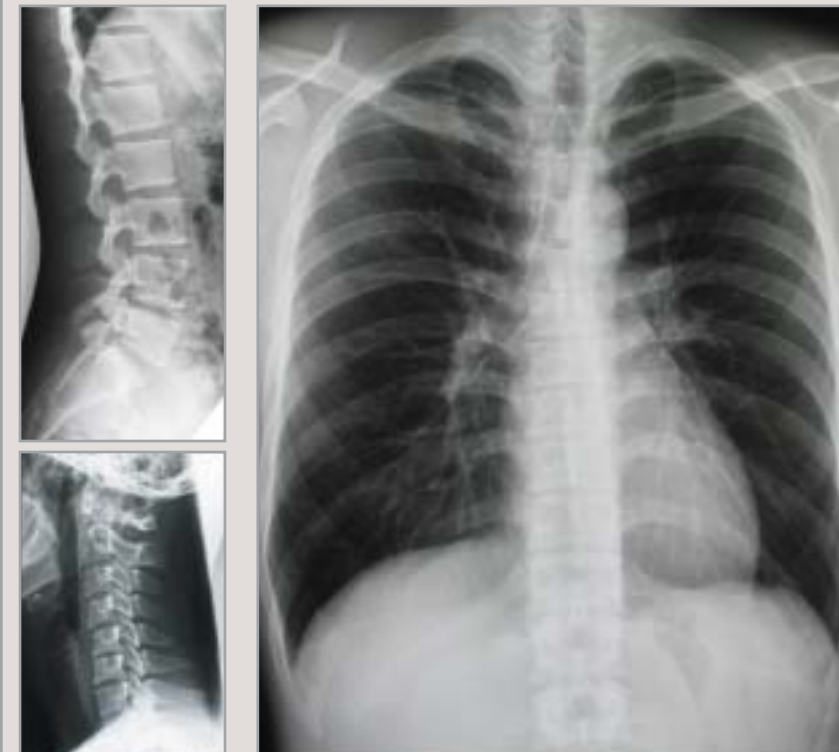
Significant reductions in operating costs, and increased patient throughput.

Image quality that is second to none, including what the best film-based systems have to offer.

CXDI-40G

Ideal for a Wide Range of General Radiographic Applications

With an imaging area that's 17 x 17 inches (43 x 43 cm), the CXDI-40G lets you capture chest and abdominal images without ever having to rotate the sensor unit. That's one less step in an already streamlined procedure that eliminates film development, cassette replacement, and other process steps. Get preview images in three seconds, and wait just a few seconds more to take another exposure if necessary. In addition, the sensor unit is very easy to install, whether on a stand or in a Bucky table.



CXDI-40C

New to the Lineup, Offering Higher Sensitivity

The CXDI-40C produces high-quality diagnostic images with minimal x-ray dosage. This makes it ideal for pediatric use as well as orthopedic exams. The key to its dose efficiency is the newly developed LANMIT 5 sensor, which is equipped with a Cesium Iodide scintillator for high sensitivity. The CXDI-40C shares the major features of other Canon DR systems, including the largest imaging area in the industry, high image resolution, and easy operation. It can be used with an upright stand, universal stand, or Bucky table. It can also be retrofitted with existing equipment.



- CXDI-40C: CsI (Cesium Iodide) scintillator, LANMIT 5 sensor
- CXDI-40G: GOS scintillator, LANMIT 3 sensor
- Imaging area: 17 x 17 inches (43 x 43 cm)
- Resolution: 7.2 million pixels (each pixel 160 microns)
- Image output: 4,096 grayscale (12-bit)
- Preview images in approx. 3 seconds after x-ray exposure
- DICOM 3.0 connectivity



Universal Stand



Bucky Table



Upright Stand

CXDI-50G



A Portable DR System with a Large Imaging Area

Only Canon offers a portable Digital Radiography system like the CXDI-50G. Versatile enough for use with bedside exams; light enough for the patient to hold if necessary; and featuring a large imaging area that's perfect for chest and abdominal x-rays. Simply put, it's the finest system available for challenging applications. The CXDI-50G can be set up in a variety of positions with the ease of a conventional film cassette or CR imaging plate. It also provides all the major advantages of any Canon DR system: immediate imaging, superior image quality, and network connectivity for convenient printing, archiving, or remote viewing.



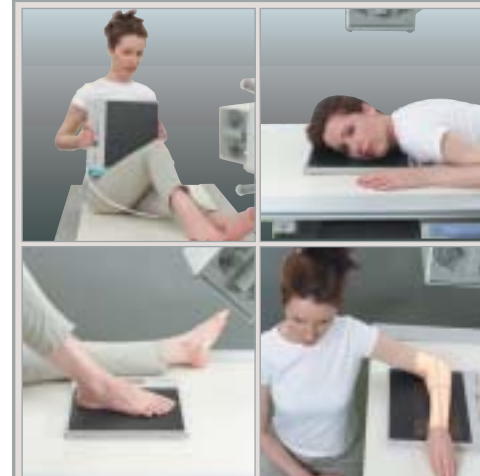
- Sensor unit: 0.9 inches thick, 10.6 lbs. (23 mm, 4.8 kg)
- GOS scintillator, LANMIT 4 sensor
- Imaging area: 14 x 17 inches (35 x 43 cm)
- Resolution: 5.9 million pixels (each pixel 160 microns)
- Image output: 4,096 grayscale (12-bit)
- Preview images in approx. 3 – 5 seconds after x-ray exposure
- DICOM 3.0 connectivity

CXDI-31



The Lightest & Most Compact DR System of Its Kind

A major breakthrough when it was first introduced, the CXDI-31 continues to provide unmatched flexibility for diverse applications. Many institutions have adopted the CXDI-31 as their preferred system for trauma, neonatal, and orthopedic imaging. Its compact size makes it easy to position, and simplifies lateral and axial imaging of skull, neck, shoulder, limbs, and extremities. Another key advantage is image quality. The CXDI-31 has the smallest picture elements of any Canon DR system, which ensures the level of refinement that's crucial to bone imaging. X-ray dosage can also be minimized.

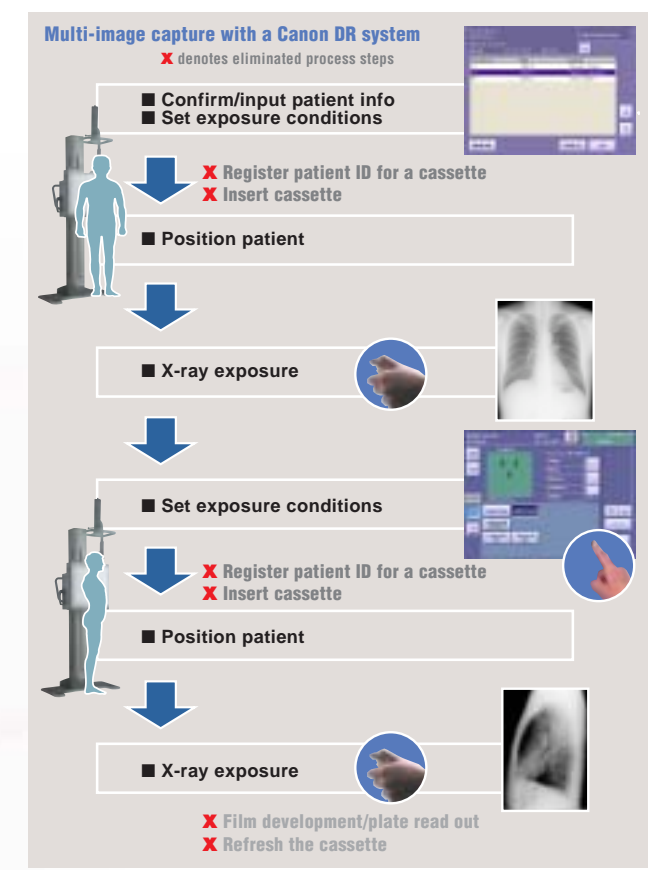


- Sensor unit: 0.8 inches thick, 6.2 lbs. (20 mm, 2.8 kg)
- GOS scintillator, LANMIT 2 sensor
- Imaging area: 9 x 11 inches (22.6 x 28.8 cm)
- Resolution: 6.5 million pixels (each pixel 100 microns)
- Image output: 4,096 grayscale (12-bit)
- Preview images in approx. 3 seconds after x-ray exposure
- DICOM 3.0 connectivity

Discover the Workflow That Revolutionized Radiography

No film development. No imaging plates. Instead, what Canon Digital Radiography delivers is the most streamlined radiographic procedure available. Each Canon DR system captures images using an exclusive Flat Panel Detector. And all operations, from X-ray emission to image confirmation to final distribution, are controlled from a centralized location, the Canon Control Station.

Canon DR systems have been designed to offer significant benefits at every stage of the process—and that leads to even more productivity gains when multiple exams are performed. All in all, the Canon Digital Radiography solution is in a league of its own.



Canon DR systems are faster than virtually any other system.

Image capture is immediate. In just seconds after x-ray exposure, a preview image appears on the LCD Operation Panel, which the technologist checks for factors such as body position and exposure. Once an image is confirmed, then final processing is quickly initiated and the image is sent to a network destination, such as a viewing station, PACS, or printer. For added convenience, the Canon Control Station offers temporary storage of over 700 images.

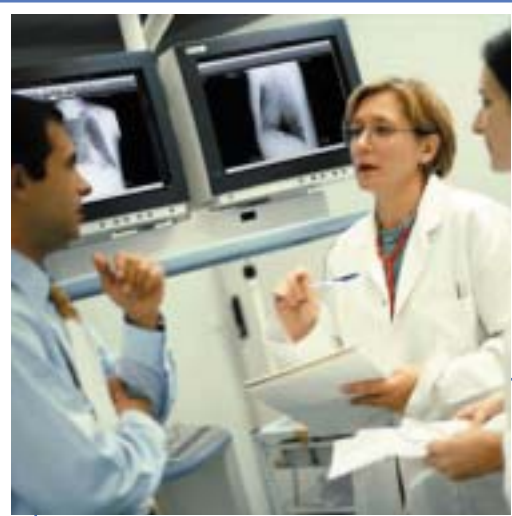
Direct digital image capture reduces procedural errors.

Because the Canon DR system's sensor unit does not have removable imaging plates, the technologist can keep better track of the patient and imaging conditions at all times—especially during times of peak demand. With a Canon DR system, there is no possibility of inadvertently using the wrong imaging plate with a patient.

Canon ensures the highest level of diagnostic image quality.

The Canon Amorphous Silicon (a-Si) Flat Panel Detector is the product of our industry-leading expertise in semiconductor, sensor manufacturing, and image processing technologies. Exceptionally clear images are the result of the sensor's high pre-sampling MTF (Modulation Transfer Function) and high NEQ (Noise Equivalent Quanta). An expansive 10^4 dynamic range enables capture of images that would appear over- or underexposed on film.





A Viewing System Perfect for DR

Designed for optimum use with Digital Radiography, the Canon DR Image Viewer offers the best way to examine images captured with your Canon DR system. It provides pixel-to-pixel display of high-resolution images, multiple image display for comparing studies, and the ability to send images to any industry standard PACS. Furthermore, the DR Image Viewer is an economical package that can be scaled upward as the growth of your enterprise demands. Its components are an LCD monitor, a PC and/or server, plus Canon's full-featured viewing software.



- Microsoft Windows compatible, thus easy to learn and operate
- Customizable worklists and extended study search functions
- Magnification, panning, and various other display tools
- Contrast and brightness adjustment, plus monitor gamma correction
- Diverse image measurement tools
- Maximized hanging protocols
- Multi-format printing functions
- System management and security features
- Option to install database, image archive, or multi-viewer stations

Multiple display options are available to suit a variety of everyday needs.



Standard Single LCD



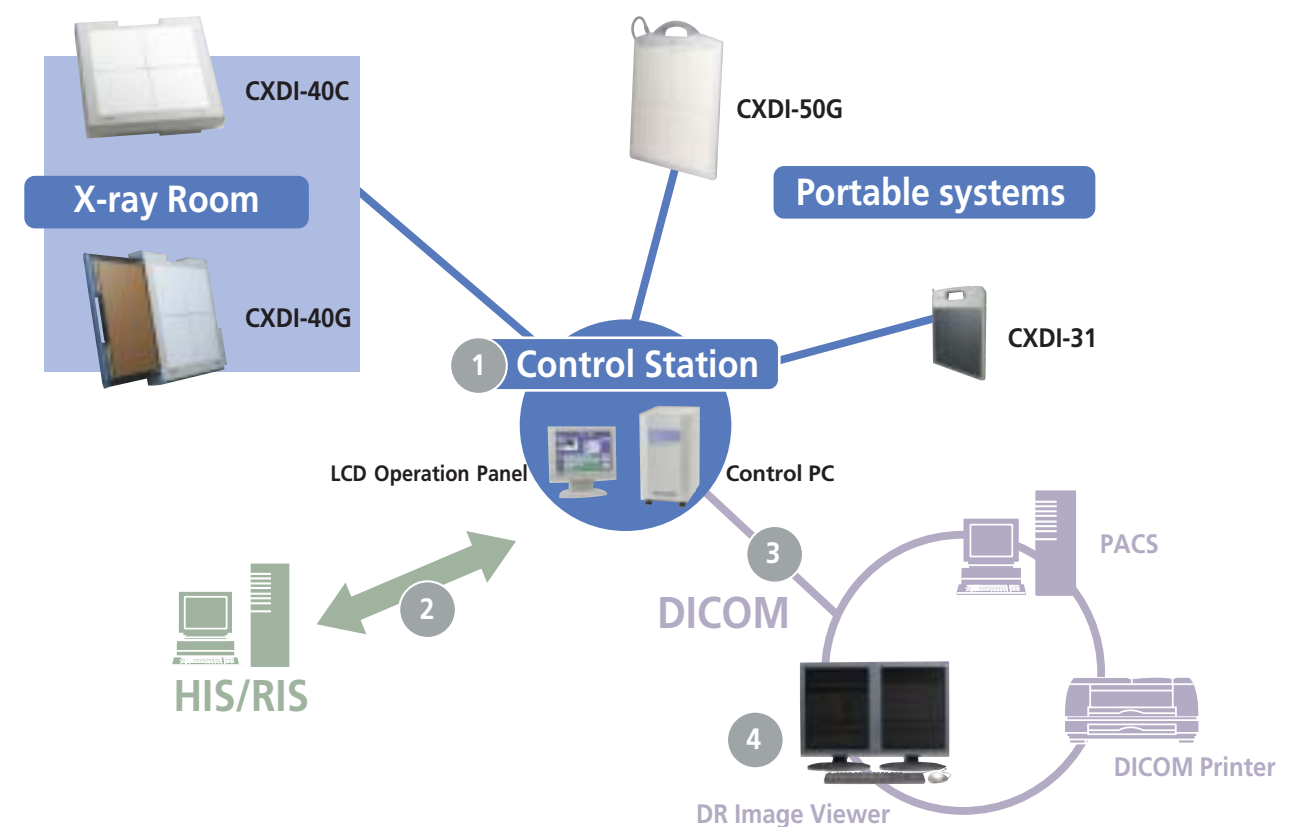
Standard Dual LCD



High Resolution Dual LCD



System Configuration Example



- 1 Multiple sensor units can be connected to a single Control Station. (For details, please contact a Canon sales representative.)
- 2 A typical procedure starts with a study order being sent from the HIS or RIS to the Control Station. Following the x-ray, exposure data is communicated from the Control Station to the RIS, while the x-ray image itself is sent to a PACS.
- 3 DICOM 3.0 compliant. X-ray images are sent to servers using Storage Service Class (SCU) and to printers using Print Management Service Class (SCU). Options are available for HIS/RIS communication and non-DICOM communication.
- 4 Additional components: Server and/or Viewer PC (not pictured).