



# DR General Radiography System

## *RADspeed* DR Series



# High Productivity and Reliability:

## Hallmarks of Shimadzu X-ray Systems!

With a near century of experience in manufacturing X-ray apparatus, Shimadzu's expertise in X-ray systems is well recognised.

For years, Shimadzu's X-ray products have been associated with legendary reliability, cost-effectiveness and quality in the medical industry.

Shimadzu's general radiographic systems are imbued with the Shimadzu heritage. Additionally, our general radiographic system features state-of-the-art technology that enhances productivity, user-operability, patient comfort and safety.



# Improved Clinical Productivity and Effectiveness with Flexible, Portable DR

Featuring **CANON's** proven large-area flat panel technology in a sleek and compact unit, the portable **CXDI-50G** and **CXDI-50C** provides superb digital X-ray image capture for a wide range of applications. The lightweight design, generous imaging area, and fast processing times of the innovative detector make it easy to capture high quality diagnostic images for routine diagnosis, as well as challenging trauma and bedside exams. It's the ideal portable solution for a faster, more streamlined approach to digital radiography.



## Portable and Lightweight

The portable **CXDI-50G** and **CXDI-50C** is only 0.9 in (23 mm) thick and weighs just 10.6 lb (4.8kg), making it ideal for use in a variety of radiographic applications, including trauma and bedside exams. The compact design makes it easy to capture the images you need from almost any angle or position, and the unit is light enough for even patients to hold with ease.



## Large Imaging Area

The **CXDI-50G** and **CXDI-50C** boasts a large imaging area while maintaining a slim overall profile. The large 14 x 17 in. (35 x 43 cm) imaging area provides ample room and flexibility to capture X-ray images large and small, including images of the skull, spine, chest, abdomen and extremities.

## Highly sensitive for superb dose efficiency

### Gentler on patients than conventional DR systems

Featuring **CANON's** advanced LANMIT 7 detector technology, the **CXDI-50C** efficiently delivers high-quality diagnostic images with minimal X-ray exposure to patients, making it ideal for pediatric and orthopedic use. The Amorphous Silicon Flat Panel Detector of the **CXDI-50C** is coated with a scintillator made of an array of tiny Cesium Iodide (CsI) crystals, which offers the dual benefits of more effective X-ray absorption and higher signal-to-noise performance compared with conventional systems.



# Discover the Advantage of Digital Radiographic Imaging

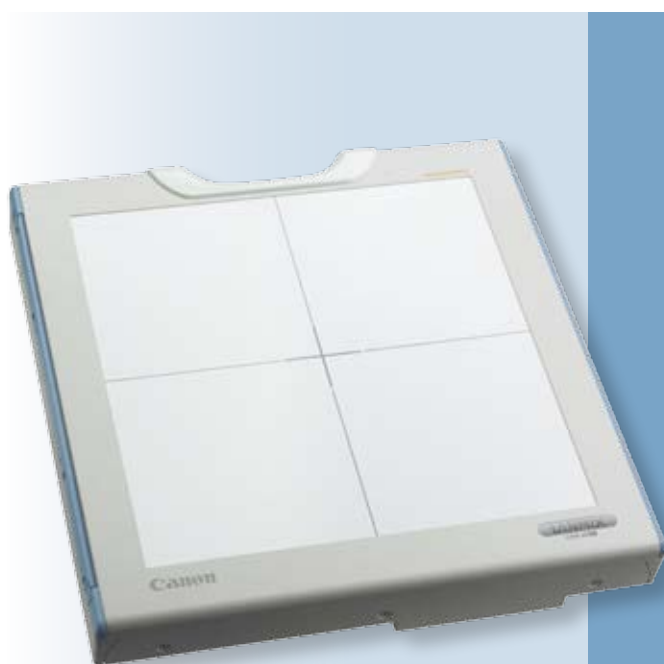
Realize the benefits of a digital workflow with **CANON's CXDI-40EC** and **CXDI-40EG**, fixed type flat panel detectors. Versatile, large-area detectors that provides filmless, cassetteless X-ray capture for a wide range of general radiographic needs. The high resolution detector features an expansive dynamic range with versatile configuration options, seamless integration into hospital networks, and considerably less wait time than conventional systems, the **CXDI-40EC** and **CXDI-40EG** will increase productivity in your radiology department and beyond.

## For Diverse Application

The versatile **CXDI-40EC** and **CXDI-40EG** can be combined with any Shimadzu upright stand, x-ray table, x-ray tube and high frequency generator, and can be used in combination with the CXDI portable range of FPD's. This configuration flexibility allows the user to build a FPD system suitable for any budget or particular clinical requirement.

## Large Imaging Area

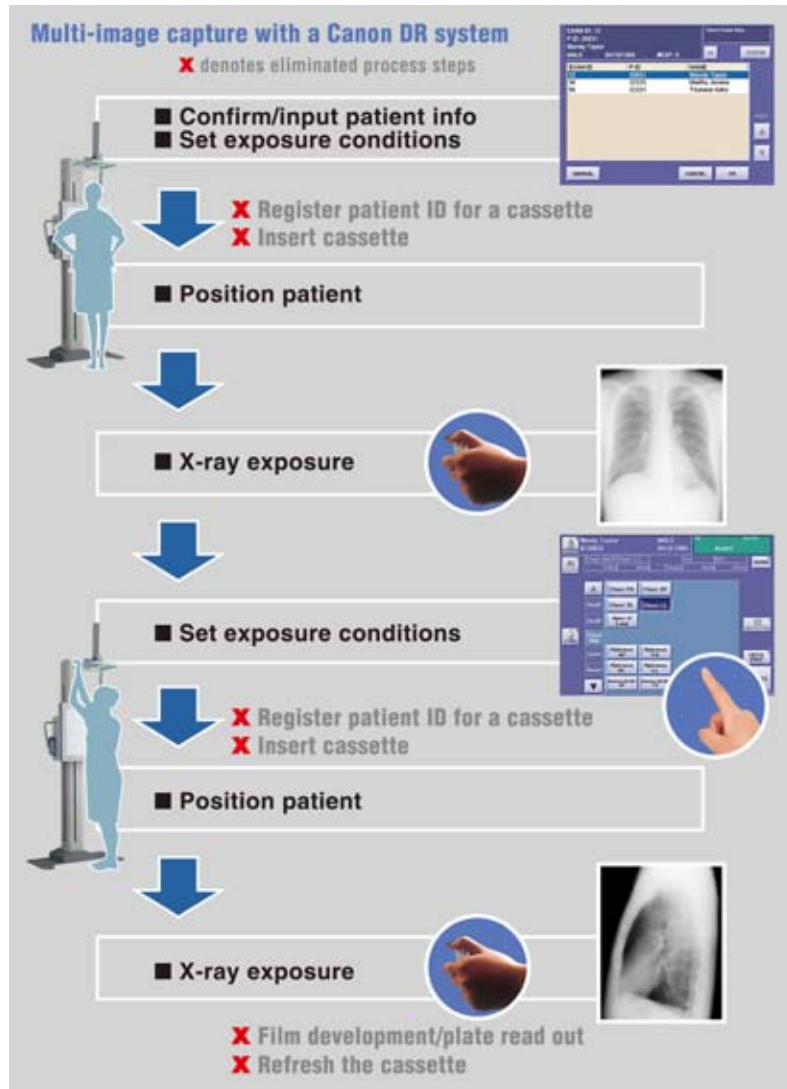
Thanks to a large imaging area 17in. x 17in. (43cm x 43cm), the **CXDI-40EC** and **CXDI-40EG** lets you capture desired anatomical views for both large and small format X-rays in portrait or landscape orientation – without having to rotate the detector unit. From examinations of the skull, spine, chest, abdomen, to the extremities, the generous size of the detector accommodates a wide variety of exams.



## Highly sensitive for superb dose efficiency

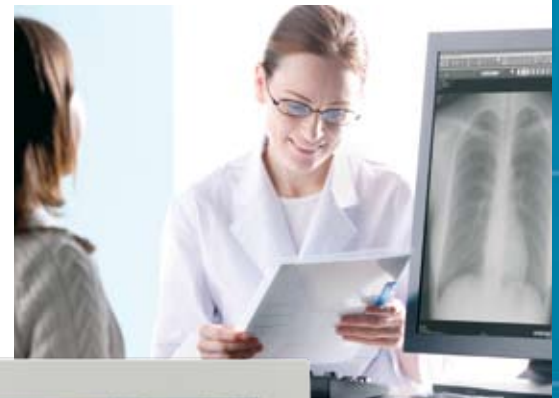
The high-sensitivity **CXDI-40EC** features **CANON's** advanced LANMIT 8 (Large Area New-MIS Sensor and TFT) detector technology, which enables the capture of high-quality diagnostic images at considerably lower X-ray doses than conventionally required. The key component of this innovative technology is the Cesium Iodide (CsI) scintillator that makes up the topmost layer of the Amorphous Silicon Flat Panel Detector. Composed of an array of needle-like Cesium Iodide crystals that provide optimal light-channeling properties, the scintillator offers more effective X-ray absorption and higher signal-to-noise performance. This makes the **CXDI-40EC** more X-ray efficient and gentler on patients than conventional systems, and perfectly suited for pediatric and orthopedic use.

# Streamlined Workflow and Immediate Results



## Enhanced Productivity

In a streamlined procedure that eliminates film development, cassette replacement, and other process steps, **CANON's** CXDI FPD System delivers X-ray images more quickly and efficiently than conventional systems, with significantly less wait time for patients and staff. Images can be previewed in just seconds after exposure, allowing the operator to immediately confirm body positions and other factors before sending the image to a network destination. And if another exposure is necessary, the detector's rapid refresh cycle ensures that the next image can be captured without delay.



## Seamless Network Integration

Ethernet 10/100 Base T connectivity with DICOM 3.0 compatibility enables seamless data transfer to any DICOM hard copy output device, PACS, or HIS/RIS for efficient printing, archiving, and remote viewing of images. The system complies with IHE (Integrating the Healthcare Enterprise) standards for interoperability to ensure easy, effective integration with your hospital network.



# A Wide Range of Choices to Meet Your Needs

## High Voltage Generators



### UD150B-40/V-40/L-40

- Large capacity and high-frequency inverter
- Exposure timing indicated by light and sound
- All APR units include a sharp, easy-to-read colour LCD touch panel.
- Quick set-up with jog dials and Up/Down buttons



### UD150L-40E/40F

- High-frequency inverter
- Exposure timing indicated by light and sound (option)
- A large character readout LED and hybrid keys allow easy, one touch setting of APR exposure parameters.

	UD150B-40	UD150V-40	UD150L-40	UD150L-40E/40F
Max. output power (kw)	80	65	50	50(32kW/single 200V power supply)
Tube voltage range (kV)	40 to 150	40 to 150	40 to 150	40 to 150
Tube current (mA @ 100kV)	800	650	500	500(320)
(mA @ 80kV)	1000	800	630	630(400)
Exposure time (sec)	0.001 to 10	0.001 to 10	0.001 to 10	0.001 to 10
Anatomical Program (APR)	400 (adjustable layout)	400 (adjustable layout)	400 (adjustable layout)	245
Panel operation	Colour LCD-Touch panel	Colour LCD-Touch panel	Colour LCD-Touch panel	Soft/membrane keys

## X-Ray Tube Supports

### FH Series

Floor mount (double rail) FH-20HR or Floor Ceiling/Wall mount FH-21HR	
Longitudinal travel	2500mm
Lateral travel (telescopic arm)	250mm
Vertical travel	1550mm
Tube angulation around horizontal axis	+/- 180° continuous
Column rotation for lateral tabletop radiography	+/- 90°



## CH-200M

Ceiling suspended tube support	
Longitudinal travel	2950 mm (along 4 m fixed rail)
Lateral travel	1400 mm (along 2 m moving rail)
Vertical travel	1600 mm
Tube angulation around horizontal axis	+120° to -180°
Vertical rotation	+/- 180°



## CH-200

- Color LCD Touch Screen rotates automatically with tube rotation
- Programmable switches for locks
- Quick positioning with new-style operation handle
- Easy to clean surface
- One-button full-way motion release
- Lock release buttons on rear of tube suspension
- Spring balanced for easy movement
- Reliable locking system allows any angulations to be held in position

Ceiling suspended tube support	
Longitudinal travel	2950 mm (along 4 m fixed rail)
Lateral travel	1400 mm (along 2 m moving rail)
Vertical travel	1600 mm
Tube angulation around horizontal axis	+120° to -180°
Vertical rotation	+/- 180°



## X-Ray Tables & Stands



### BK-120MK

Elevating horizontal radiographic table

Height range	535 mm to 850 mm
Max. lifting weight	200kg
Table top floating range	1100 mm long, 250 mm transverse
FPD movement range	350 mm



### BK-12HK

Fixed height X-ray table

Fixed Height from Floor	700 mm
Max. Allowable Load	200kg
Table top floating range	1100 mm long, 250 mm transverse
FPD movement range	350 mm



### BK-200

- Elevating horizontal radiographic table
- Maximum lifting weight is 295kg (650lbs)
- 4 way floating top & electromagnetic locks
- Table- top collision protection sensor
- Convenient & safe foot controls by kick switch
- Selectable extensive options
- Flat tabletop

Height range	535 mm to 850 mm
Max. lifting weight	295kg
Table top floating range	1150 mm long, 250 mm transverse
FPD movement range	350 mm



### BR-120 X-Ray Stand Series

- Vertical travel to accommodate all patient ranges and studies
- Remote collimation control (optional)
- Compact design FPD unit for easy examination of sitting patients
- Selectable extensive options
- Equipped with a tilting FPD unit (BR-120T)

FPD Centre to Floor Distance	400 mm to 1900 mm
Chin Support to Centre Distance	247 mm
Tilting Range of BR-120T	-20°, 0° (vertical), 15°, 30°, 45°, 60°, 75°, 90° (horizontal)

\*Specifications listed are subject to change without notice.

#### SHIMADZU (ASIA PACIFIC) PTE LTD.

16 Science Park Drive #01-01, The Pasteur,  
Singapore Science Park, Singapore 118227  
Phone: 65-6778-6280 Fax: 65-6778-6901

#### SHIMADZU MEDICAL SYSTEMS (OCEANIA) PTY. LTD.

Unit E, 10-16 South Street, Rydalmere N.S.W 2116, Australia  
Phone: 61 (2) 9898-2444 Fax: 61 (2) 9898-0818

#### SHIMADZU MIDDLE EAST & AFRICA FZE

Kosuyolu Mah., Salih Omurtak Cad. No:57, 34718, Kadikoy, Istanbul, Turkey  
Phone: 90-216-545-8940 Fax: 90-216-545-8941



<http://www.shimadzu.com>