

Odyssey⁺



ODYSSEY⁺

with Canon DR-CXDI Wireless

Mobile X-ray System with 4-Step Telescopic Arm / 40 kW HF Generator



Compact and Ergonomic Design

Maximum Efficiency and Energy

The **Odyssey⁺** is a premium mobile digital radiographic system that utilizes a powerful 40kW high-frequency generator. The fully integrated 19-in. color touchscreen allows the operator to preview the image and access image enhancement tools. There is also a secondary 8.4 in. touchscreen on the head assembly that allows for precise positioning and technique adjustments at the patient's bedside.

Thanks to the battery charger with Energy Recovery Technology, the unit can operate longer with less interruption achieving up to 800 exposures.

Driving and Maneuverability

The patented Easy Moving System with motor-assisted drive ensures smooth and silent movement with easy maneuverability. The handle's capacitive touch technology means effortless, one-handed movement of the entire unit is possible which can achieve a forward speed of 3.4 mph. Additionally, it is possible to move each wheel independently, at low speed, to fine-tune positioning.

The compact and flexible design of the **Odyssey⁺** allows for easy access through narrow aisles, and in a patient's bed or wheelchair, improving productivity and allowing staff to work with safety and ease.

Safety Features for Peace of Mind

The fully counterbalanced telescopic column allows you to reduce it down to a height of 50.7 in., providing a clear, safe view during transport. When not in use, the retracted column allows for compact storage.



The unit's fully compacted size of 50.7 in. (129 cm) H x 48 in. (122 cm) W x 21.2 in. (54 cm) D allows for access and increased maneuverability into confined areas.





4-Step Telescopic Arm

Designed for Maximum Visibility and Mobility

Collimator rotation:
 $\pm 90^\circ$; Detent 0°

4-Step Telescopic Arm

- Max: 48 in. (122 cm)
- Min: 24.8 in. (63 cm)

Telescopic Column

- Max: SID: 79.5 in. (202 cm)
- Min: Focal Distance Floor < 20.8 in. (53 cm)

Head Rotation around axis
perpendicular to arm: -30° , $+90^\circ$;
Detent 0°

Head Rotation around arm axis:
 $\pm 180^\circ$; Detents -90° , 0° , $+90^\circ$

Column Rotation:
 $\pm 317^\circ$

Electromagnetic brakes for omni-
directional movement of head



The **Odyssey Plus** features a secondary
8.4 in. touchscreen with Image Preview
for positioning acceptance

Built-in Features

for Operator Convenience

Energy Recovery Technology

The unit takes advantage of its own braking energy to recharge the batteries in the units on board charging slot.

Control Panel Features

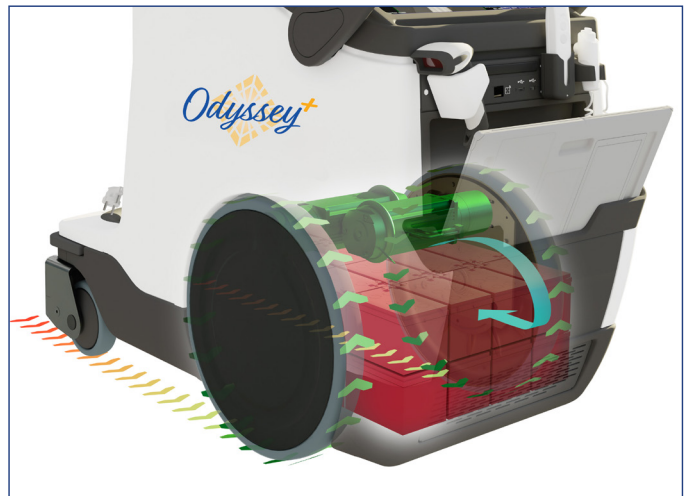
- System ON/OFF Indicator
- Battery Charge level indicator for radiographic operations (X-ray exposures) and mobile motion (motors)

X-Ray Handswitch

- Two-step prep and expose
- Collimator lamp button to help patient positioning

In case of an emergency, the unit can quickly be transferred to manual movement by pressing the Emergency OFF Switch next to the handswitch.

For an extra layer of protection, anticollision proximity sensors are available as an option.



Fully Integrated with Canon DR

The **Odyssey Plus** Mobile System comes fully integrated with Canon CXDI Control Software NE for use with Canon CXDI Wireless Detectors. Choose from Canon's Amorphous Silicon (a-Si) TFT CsI (Cesium Iodide) detectors that ensure superior image quality at a lower dose.



Canon CXDI-Pro Wireless Detectors

The Canon CXDI-Pro wireless digital radiography systems are designed to support the demands of medical imaging departments for cost-effective solutions without compromise. Fully integrated with the AMRAD Medical Odyssey Plus, the Canon CXDI-Pro wireless digital radiography systems provide features that optimize workflow and offer high quality imaging and reliability you can count on.

- **CXDI-703C Wireless Detector:** 14" x 17" (6.4 lb. with battery)
- **CXDI-803C Wireless Detector:** 11" x 14" (4.6 lb. with battery)
- **CXDI-403C Wireless Detector:** 17" x 17" (7.7 lb. with battery)

Battery Charger

- Charge up to two batteries at the same time
- Indicator lights show charging status (25%, 50%, 75%, 100% charged)
- Automatically stops charge when full battery capacity is reached

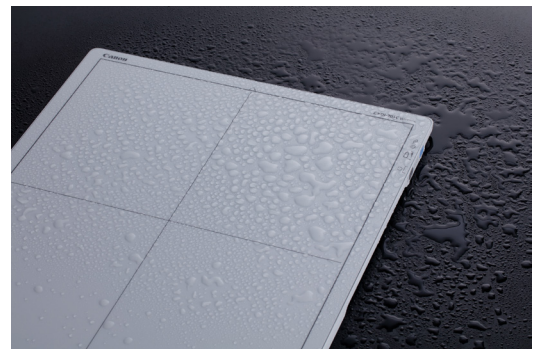


AED Function

The CXDI DR detectors are equipped with Automatic Exposure Detection (AED) functionality. In this mode, the detector relies on an internal process to acquire an image without a direct physical signal from the x-ray system.

Protection

Contact with fluids is inevitable, particularly in emergency and high-dependency care. The IP55 protection against liquid and dust entering the FPD provides you with extra assurance, while it is in use under challenging conditions, or when cleaning the product for patient safety.



Easy Handling & Cleaning

The sleek detector design includes an ergonomic handgrip (6.8mm depth*) that is sculpted into the lightweight detector making it comfortable to hold and easy to grip.

The smooth rounded corners make it easy for the technologist to position and comfortable for the patient.

**CXDI-703CW and 403CW detectors only*

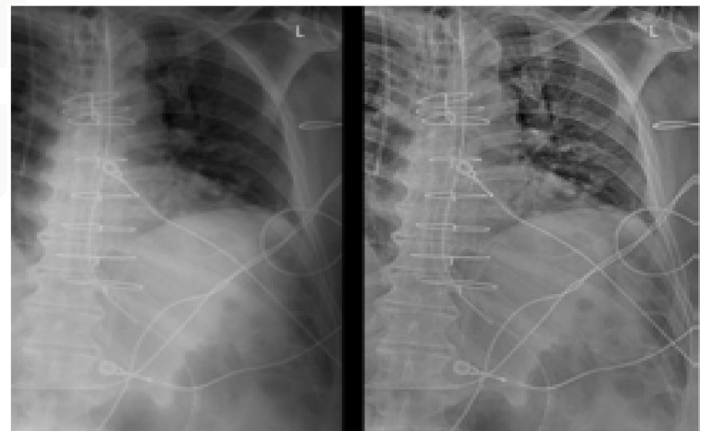
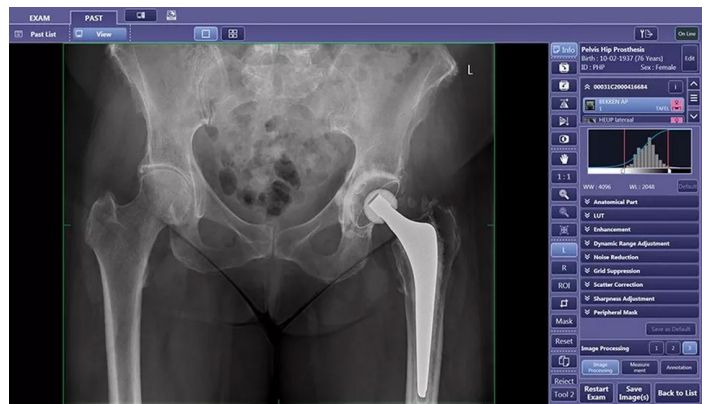
CXDI Control Software NE

Canon CXDI Control Software NE is the dedicated platform required to power Canon CXDI Wireless Detectors. By leveraging advanced image processing algorithms, it streamlines clinical workflows and reduces manual steps, ensuring superior image quality with every exam.

- Windows® 11 OS Supported
- Interactive GUI for intuitive operation
- Integrating the Healthcare Enterprise (IHE) compliant
- Ability to rotate images
- Authentication of users and connections
- Flexible DICOM configuration for worklist and export of images and reports
- Cybersecurity provisions including IHE ATNA (secure DICOM and audit trail)
- Flexible dose reporting using Radiation Dose Structured Report, MPPS, and exposure logs

Advanced Image Processing

Advanced Edge Enhancement improves visualization of tubes, catheters and bone details. The software has three different image processing algorithms small structures, bone detail and catheter setting.

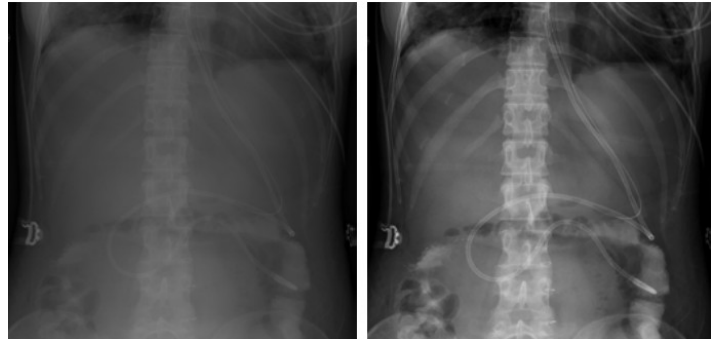


Advanced Edge Enhancement



Optional Scatter Correction

- Achieve excellent image contrast of any body region without a grid
- Reduce detector handling weight
- Eliminate grid misalignments and artifacts
- Dose reduction
- Consistent image quality



Imaging without
Scatter Correction feature

Imaging with
Scatter Correction feature and
without grid

CXDI-Pro Wireless Digital Radiography Systems Specifications¹			
Model Name	CXDI-803C Wireless	CXDI-703C Wireless	CXDI-403C Wireless
Purpose	General Radiography		
Method	Flat panel detector: scintillator & amorphous silicon (a-Si)		
Scintillator	Cesium Iodide		
Weight (incl. Battery)	4.6 lb (2.1 kg)	6.4 lb (2.9 kg)	7.7 lb (3.5 kg)
Effective Imaging Area	11 x 14 in (273 x 349 mm)	14 x 17 in (349 x 426 mm)	17 x 17 in (426 x 426 mm)
External Dimensions	12 x 15 x .6 in (307.5 x 384 x 15 mm)	15 x 18 x .6 in (384 x 460 x 15 mm)	18 x 18 x .6 in (460 x 460 x 15 mm)
Image Matrix Size	1952 x 2496 pixels	2496 x 3040 pixels	3040 x 3040 pixels
Pixel Size	140 um		
Limiting Resolution	3.5 lp/mm		
Grayscale	A/D: 16 bit		
DQE	Typical 65% (0 lp/mm), 58% (0.5 lp/mm) ²		
MTF	Typical 65% (0 lp/mm), 58% (0.5 lp/mm) ²		
Time for ready	< 4 seconds ³		
Preview Image Time	1 second ³		
Cycle Time	< 4 seconds ³		
Dust, Water -Resistance Rating	IP55 (For dust protection against limited dust ingress and water protection against low pressure water jets from any direction) ⁶		
Battery Performance	>1,500 images @ 7 second cycle, >140 images @ 100 second cycle		
Charging Performance	Battery charging time approx. 150 min. ⁵		
Wireless Standard	IEEE802.11ac		
Wireless Channel/Band	2.4 GHz, 5 GHz		



**With Quick Ready, these
detectors are ready to go
in as little as 4 seconds**

¹ Specifications subject to change

² 0 lp/mm is extrapolated value IEC62220-1-1 2015 (RQA5)

³ Depending on acquisition mode

⁴ Based on tests conducted by an independent institution.

Certification does not guarantee against failure or damage.

⁵ At an ambient temperature of 77 °F. Detector stand is sold separately

Optimized Battery Management

OBM (Optimized Battery Management): Extended Battery Life thanks to the Optimized Battery Management.

- Charge Capacity per battery: 15 Ah
- Total energy storage capacity: 5760Wh
- X-Ray Exposure Autonomy: More than 800 exposures (80 kV - 400 mA - 5ms)

Autonomy

- More than 11 hours in stand-by (system ready to work)
- More than 25 km @ 3.4 mph
- Up to 1 km moving the unit once the exposure capacity is exhausted

Charging Time

- In 4 hours, 80% of the charge is available
- In 8 hours, 100% total charge is available
- 20% is charged every hour during the first 4 hours

Exposures can be immediately taken anytime the unit is plugged into a power source.

Advanced Generator Technology

The **Odyssey⁺** features advanced generator technology that is housed in a compact and modular design with the following benefits:

- Constant Potential High-Voltage Generator featuring lower patient dose, shorter exposure times as well as greater accuracy and consistency.
- Monoblock without high voltage cables.
- Minimum "Rise Time & Fall Time in kV" for higher patient protection.
- Controlled by multiple microprocessors which render a higher exposure consistency, efficiency in operation and an extended tube life.
- Independent operation without connection to the mains, except to recharge the batteries.
- Closed loop control of X-ray tube current, kVp and filaments, which minimize potential errors and the need for readjustments.

40 kW GENERATOR, Single Phase

- 150 kVp Range: From 40kVp to 150kVp. In steps of 1kVp
- mA range: From 10 mA to 500 mA in 18 steps, Renard 10 scale
- mAs range: From 0.1mAs to 500mAs in 38 steps, Renard 10 scale.
- Minimum power: 0.4 kW (40kVp 10mA)
- Maximum power: 40kW, According to IEC definition IEC (0.1s, 100Kv)



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LITR073-0626

SUMMIT INDUSTRIES, LLC

7555 N. Caldwell Avenue, Niles, Illinois 60714

(p) 773-353-4000 | (p) 1-800-729-9729



www.amradmedical.com