AMRAD Medical by Summit Industries

Odyssey+

ODYSSEY+ Mobile X-ray System with Canon DR-CXDI Wireless

4-Step Telescopic Arm / 40 kW High Frequency 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.

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.

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.

4-Step Telescopic Arm

Designed for Maximum Visibility and Mobility

Collimator rotation:
±90°; Detent 0°

4-Step Telescopic Arm
- Max: 48 in. (122 cm)
- Min: 24.8 in. (63 cm)

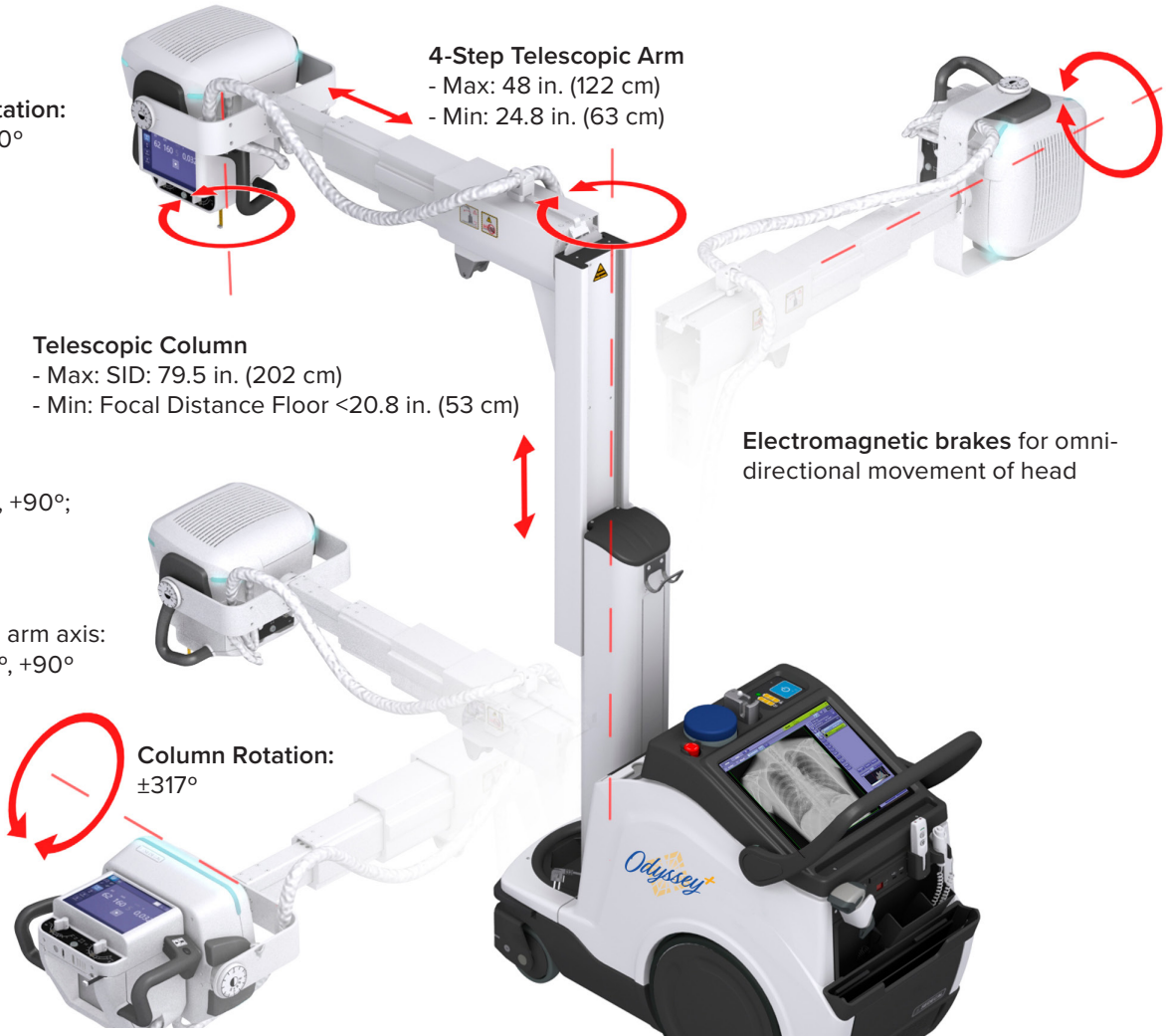
Telescopic Column
- Max: SID: 79.5 in. (202 cm)
- Min: Focal Distance Floor <20.8 in. (53 cm)

Electromagnetic brakes for omni-directional movement of head

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

Head Rotation around arm axis:
±180°; Detents -90°, 0°, +90°

Column Rotation:
±317°

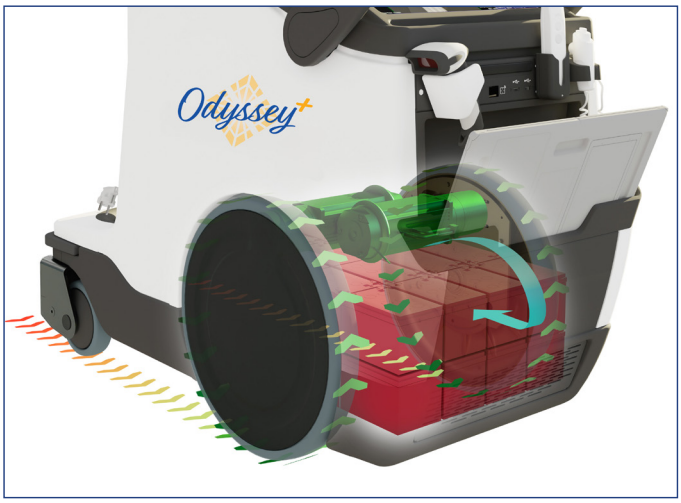


The Odyssey Plus features a secondary 8.4 in. touchscreen on the head assembly

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** 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. This new generation of wireless detectors provides features that optimize workflow and offer high quality imaging and reliability you can count on.

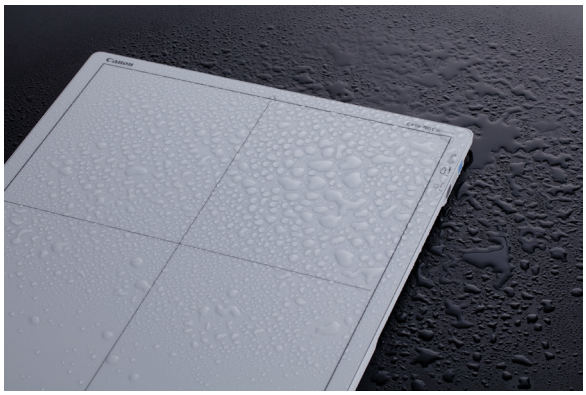
- **CXDI-703C Wireless Detector:** 14" x 17" (6.4 lb. with battery)
- **CXDI-803C Wireless Detector:** 11" x 14" (4.6 lb. with battery)
- **CXDI-403C Wireless Detector:** 17" x 17" (7.7 lb. with battery)

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

These DR (Digital Radiography) detectors are equipped with AED (Automatic Exposure Detection) functionality. In this mode, the start of radiation is automatically detected by the sensor panel at exposure time. This allows the use of the panel without a typical exposure interlock with the generator (which may require additional wiring).



Protection

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

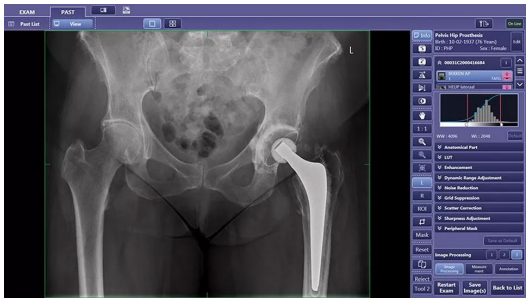
Optional Tethered Operation

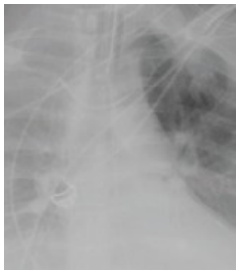
The tethered option, which includes a cable (sold separately), can help provide quick and reliable operation when mounted in your system's detector tray and will also charge the onboard battery.

CXDI Control Software NE

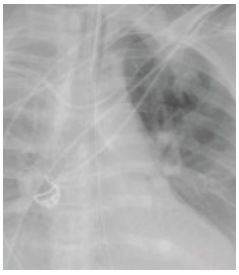
The CXDI-Pro series wireless detectors require CXDI Control Software NE to operate. The software is exclusively for use with Canon CXDI Wireless Detectors and helps to optimize workflow while producing high-quality images.

- Operates on Windows 10
- IHE compliant
- Flexible DICOM configuration for worklist and export of images and reports
- Ability to rotate images
- Very efficient workflow when exams are codified in the worklist and combined with integrated generator
- Available touch-screen operation including "pinch to zoom"
- Scatter Correction feature for non-grid exams
- Standard image stitching function for up to four images





Imaging without Scatter Correction feature



Imaging with Scatter Correction feature and without grid

CXDI-Pro Wireless Digital Radiography Systems Specifications[1]			
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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Summit Industries’ successful service network surrounds you with a dynamic team of exceptional experts. Your organization and your patients will benefit from the experience and best practices that only Summit Industries and its authorized dealer network can offer.

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