

# Prodigy 1417C Gen2 Wireless DR System

100 Micron Cesium Detector with Prime MED Software

## Prodigy 1417C Highlights

- Industry Best 100 Micron Pixel Pitch with 5LP resolution
- Reduce patient dose by up-to 40% below current techniques
- 16-bit Dynamic Range Displays up-to 65,536 shades of gray
- Ultra-high resolution 3524 x 4288 (15MP) Pixel Matrix
- True 35cm x 43cm (14x17") image area
- IPX4 rated (protection against liquids)
- Cassette-sized detector fits in conventional Bucky tray
- Automatic Exposure Detection (AED) for ease of installation
- Direct deposition Cesium Iodide provides excellent image quality
- Wireless 802.11n standard
- Two (2) rechargeable batteries with battery charging station



Prodigy 1417C Gen2 is a wireless flat panel detector (FPD) for general digital radiography. Employing a direct deposit Cesium scintillator makes it extremely dose sensitive, which allows you to **reduce** technique up-to 40%.

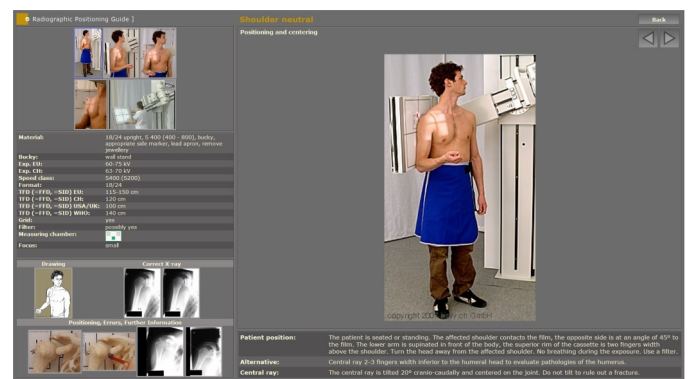
1417C Gen2 features a 15 megapixel image matrix with an industry leading 100 micron pixel pitch. It also provides 16-bit image output, which can resolve 5LP/mm while displaying up to 65,000 shades of gray. Many low cost detectors offer only 14-bit output (16,000 grays).

Prodigy 1417C also provides a true 35x43cm<sup>2</sup> imaging area, which means that it captures x-ray edge-to-edge. System includes a battery charging unit and two rechargeable batteries. Each battery provides 4-6 hours of use per charge allowing for uninterrupted workflow.

Prodigy 1417C fits into conventional table and wall-stands just like a film or CR cassette with no modifications needed. Automatic Exposure Detection (AED)

simplifies integration by eliminating the need to create a wired interface with the generator. Simply insert the detector in the Bucky and begin taking your patient orders within minutes!

Prime MED Acquire software provides both Medical and Veterinary interfaces and offers an optional Archive if needed for long-term image storage.

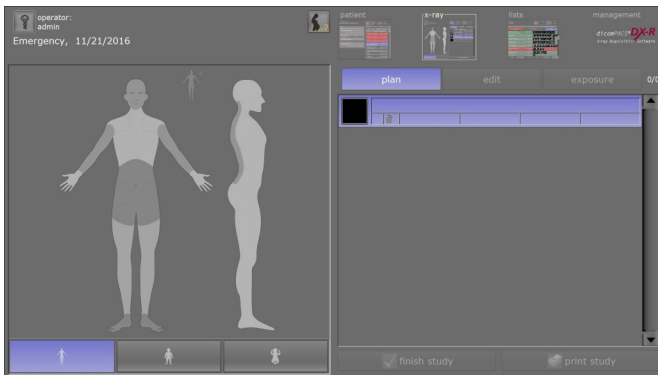


# Prodigy 1417C Gen2 Technical Specifications

Sensor	
Panel	Single substrate amorphous silicon active TFT/diode array
Scintillator	Directly deposition CsI:TI
Pixel Matrix	3524 × 4388
Pixel Pitch	100 μm
Electronics	
Amplifiers	Low noise ASICs with user selectable gains
ADC	16 bit
Image Transfer Time	Wired: 500 ms; Wireless: 3000 ms
On Board Memory	1 GB DDR3, 4 GB SDHC Card
Mechanical	
Size	ISO 4090 for 35 cm × 43 cm (14" × 17")
Active area	True 350 mm × 426 mm
External dims	384 mm (w) × 460 mm (l) × 15.5 mm (h)
Weight	6.8 lbs (3.1 kg)
Housing	Aluminum frame with carbon-fiber entrance window
Communications	
Status Displays	OLED display: WiFi, battery & LAN indicators
Wireless Data I/F	802.11n WiFi standard at 5GHz
Wired Data I/F	GigE trigger and power via docking connector
X-ray I/F	Integrated X-ray trigger control Automatic Exposure Detection (AED)
Acquisition SW	Prime MED Acquire Software, DICOM 3.0
Prodigy Warranty	Two Year Manufacturer's Warranty

Imaging Performance	
Limiting Resolution	5 cy/mm
Typical MTF	65% (1 cy/mm), 38% (2 cy/mm), 14% (4 cy/mm) for RQA5
Typical DQE	75% (0 cy/mm), 58% (1 cy/mm), 38% (3 cy/mm) for RQA5
Environmental	
Temperature	10 – 35 °C operating
Humidity	30 – 70 % RH operating (non-condensing)
Ingress Protection	IPX4 rated (protection against splashing water)
Power	
Battery	Rechargeable battery, 53.3 Wh (qty 2)
Battery Charger	External two bay charger 100-240 V AC 50/60 Hz
Interface and Power Unit	Optional Prodigy IPU with external power supply 100-240 V AC, GigE, and X-ray I/F
Regulatory	
Standards	IEC 60601-1, IEC 60601-2, IEC 60601-1-6, FCC 47CFR PT 15, FCC OET 65C, ETSI EN 301 893, EN 62311 ISO 10993-5, ISO 10993-10, CE
Customizable Options	
Sequence Mode	Up to 3 fps (Wired and Wireless with image buffer)
Binned Mode	Up to 8 fps for 2 × 2 binned, 200 μm pitch for a pixel matrix of 1778 × 2160
Image Calibration	On-board offset, gain and defective pixel corrections
Fast Preview	4 × 4 binned quick preview image

## Prime MED Screenshot



## PERFECT FOR RETROFITS

Prodigy 1417C can quickly upgrade your existing portable x-ray system.

Upgrade kits are available to easily retrofit AMX4, Shimadzu and Siemens Portable X-ray machines using a Microsoft Surface Pro3 touchscreen tablet PC.

Kit includes an interior mold for the existing cassette bin to hold the wireless DR Panel, a Surface tablet enclosure and two brackets to allow mounting the tablet on either side of the portable x-ray column for easy use by the technician.

