

# Colenta<sup>®</sup> DR Panel VW 1417-WLG/WG

The DR Panel VW1417-WLG/WG (wireless / wired Gadox) is the latest State of The Art direct X-Ray sensitive, portable, Flat Panel Detector 14"x17" with spatial resolution of 3.5 lp/mm to ensure superior image quality by meeting all requirements in high standard general purpose diagnosis.

This Flat Panel Detector with AED-facility, fits into existing X-Ray tables or wall stands (like film cassettes or CR plates), with wireless connection to the computer and has no need of an interlink to the X-Ray generator.

The Colenta DR Panel is a digital radiography detector with the large field coverage area of 14"x17" designed for general radiographic application using Colenta image processing software DX Easy Imaging. The active 9 Mega-pixels of this detector ensure superior image quality for today's high standards in precise diagnosis.

The Colenta DR Panel can be installed in a single or dual or multiple detector-configuration depending on the required applications. For dual or multiple detector-configurations, the Colenta DR Panel can also be installed in combination with other flat panel detector models of Colenta.



panel configuration:  
single, dual or multiple

## Features & Benefits

- ✓ Use with existing X-Ray equipment
- ✓ Slim and light-weight design, approx. 3 kg
- ✓ Same dimensions as 14"x17" film cassette/CR panel
- ✓ Attachable tethered cable (optional) for Image Acquisition and Transmission through Gigabit ethernet interface
- ✓ Brilliant Modulation Transfer Function (MTF)
- ✓ Automatic Exposure Detection AED, no need for interface to X-Ray generator
- ✓ 14 bit signal digitalization provides Wide Dynamic Range
- ✓ Image acquisition and transfer time within some seconds
- ✓ Communication through WLAN (IEEE 802.11n)
- ✓ Fully compatible with DICOM 3.0<sup>1)</sup> standard
- ✓ Reduced X-Ray dose for patient safety
- ✓ Interchangeable, rechargeable panel battery
- ✓ Optimized algorithms for each different body part
- ✓ Simple & easy integration with all kinds of digital radiography systems
- ✓ Empowered by DX Easy Imaging Software

## COLENTA DX Easy Imaging Software

The Image Acquisition Software enables an image preview in approximately 4 seconds after X-Ray exposure for prompt image previewing/confirmation.

The Image Processing Software provides consistent and excellent image quality, using optimized algorithms for each different body part, allowing various pre-set image processing modes for different studies, at considerably reduced X-Ray dose.

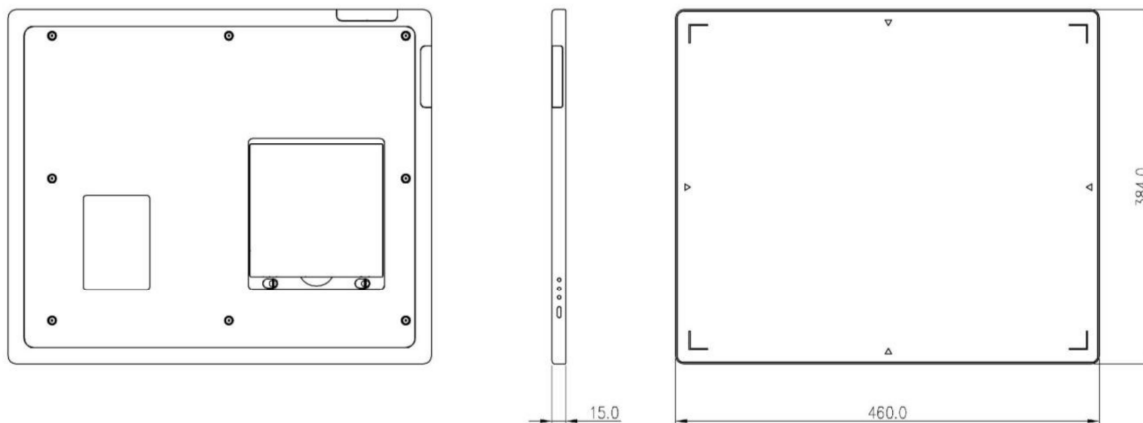
The DX Easy Imaging Software is fully DICOM 3.0 compatible, providing image data transfer to any DICOM device, PACS<sup>2)</sup> or RIS, for efficient data management, printing, archiving and remote image viewing.

<sup>1</sup> DICOM Digital Imaging and COmmunications in Medicine

# Colenta DR VW1417-WLG/WG Specifications

<b>Application</b>	General Radiography, 40-150 kVp, 4mR maximum
<b>Technology</b>	Flat Panel Detector, a-Si TFT with PIN diode
<b>Scintillator</b>	Gadox (Gadolinium Oxydsulfide)
<b>Effective imaging area</b>	358 x 430 mm (14 x 17")
<b>Resolution</b>	2.560 x 3.072 Pixel
<b>Pixel pitch</b>	140 µm x 140 µm
<b>Grayscale</b>	14 Bit (16.384)
<b>Image acquisition and transfer time</b>	3s (wired) / 4.5-6.5 s (wireless)
<b>Spatial resolution</b>	min. 3.5 line pair / mm
<b>Dynamic Range</b>	more than 72dB
<b>SNR</b>	0.71mR
<b>Method of Exposure (trigger)</b>	AED (Auto Exposure Detect), DR Trigger
<b>Power supply</b>	24VDC (wired) / Powered by the battery pack 4000 mAh (wireless)
<b>Power consumption</b>	max. 12 W
<b>Image transfer</b>	Ethernet / Wireless communication (IEEE802.11a/b/g/n)
<b>Imaging Plate</b>	Carbon Fiber Plate
<b>External dimensions</b>	384 (H) x 460 (V) x 15 (D) mm
<b>Weight</b>	wired: 2.9 kg (6.39 lbs) / wireless: 3.3 kg (7.28 lbs)
<b>Operating Environment</b>	+10 °C to +35 °C; 30 % to 85 % non condensing humidity atmospheric pressure 70 to 106 kPa altitude max. 2000 Metre, shock 1.6G, vibration 0.7G
<b>Storage and transport</b>	-15 °C to +55 °C; 10 % to 90 % non condensing humidity atmospheric pressure 50 to 106 kPa altitude max. 2000 Metre, shock 20G, vibration 0.7G
<b>Capture console, consisting of</b>	Capture Workstation Touchscreen Monitor DX Easy Imaging Software

## Dimensions:



Software controls detector, image acquisition and optimization, connects dose area product measurement device, DICOM Send/Store, DICOM Worklist. Optional with fully integrated **DX Easy Imaging PACS** solution.

*Specifications are subject to change without notice. All brand names or trademarks are the property of their respective owners. In some countries, regulatory approval may be required to import medical devices.*

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