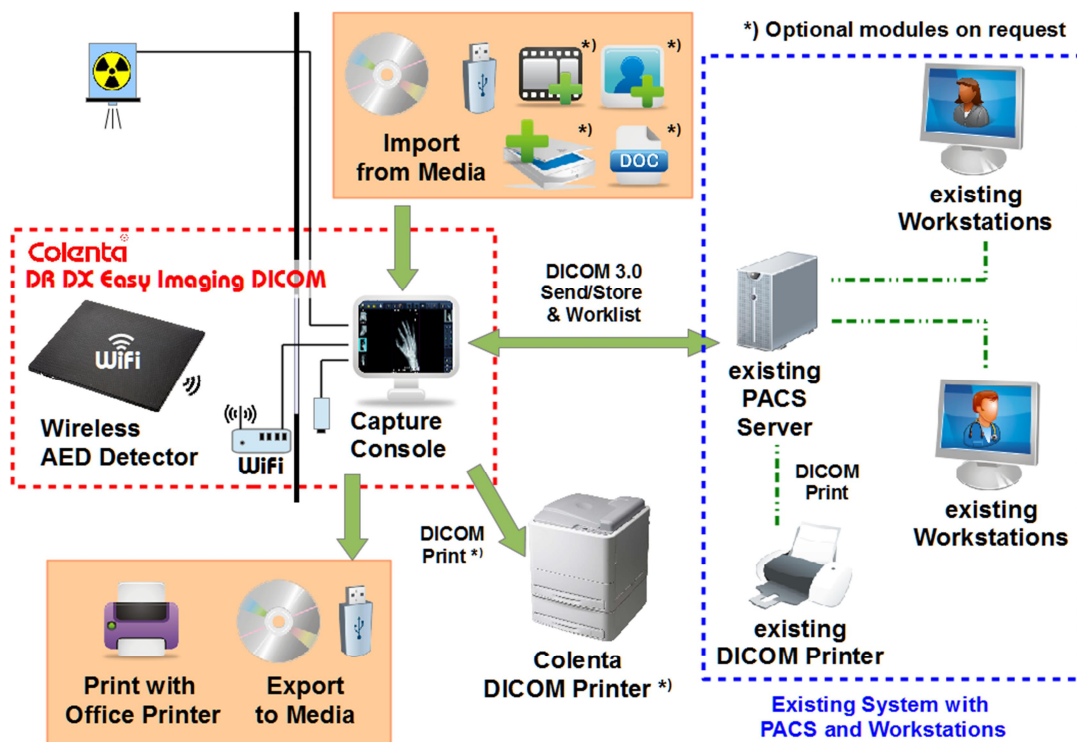


# Colenta® DX – EASY IMAGING

## DR Retrofit Kit Package – Configuration DICOM



### Description:

The **DR Retrofit Kit - Configuration DICOM** makes the use of CR Cassettes/Imaging Plates or the use of analogue x-ray films, the use of film cassettes and intensifying screens, the use of a darkroom, a processor and processing chemistry obsolete.

The digital information for the various images, necessary for an x-ray examination, is obtained by means of the **Colenta Wireless Flat Panel Detector**, which is replacing the CR Cassettes/Imaging Plates or the conventional method of using cassettes/films.

Several of the Colenta Wireless Flat Panel Detectors are with **AED (Automatic Exposure Detection)** – facility, does not need any interlink to the x-ray generator.

The digital information, produced by the DR Detector is transferred to the **Capture Console**, where by means of the **DX-Easy Imaging Acquisition Software** the x-ray image is obtained and can be evaluated on screen – within approximately 3 seconds after the x-ray exposure.

The **DX-Easy Imaging Processing Software** allows the radiologist to enhance and examine the image exactly as required to make a precise diagnosis. The image can be exported to different media or a patient CD made as required.

Only the diagnosis related images are printed by means of the **COLENTA DICOM<sup>1)</sup> Printer** onto **Dry Imaging Film** for keeping in the patient file.

A **CD-writer** in the PC of the Capture Console allows images to be written and to create a **Patient-CD**, to be kept with the patient file.

When an **IT-System** with a **PACS<sup>2)</sup> Server** is already in use, the **DICOM<sup>1)</sup> Configuration** can be easily implemented in the existing system.

1) DICOM ... **D**igital **I**maging and **C**ommunications in **M**edicine

2) PACS ... **P**icture **A**rchiving and **C**ommunication **S**ystem

# Colenta<sup>®</sup> DX – EASY IMAGING

## DR Retrofit Kit Package – Configuration DICOM

consists of:

### 1) Capture Console

#### **1a) 19" TFT Touchscreen Console Monitor \*)**

- 19" colour TFT Monitor
- 1280x1024 resolution

\*) When diagnosis to be done on Console Monitor, it is recommended to use a Diagnostic Monitor.

	21.3" TFT 2M colour	21.3" LED 2M monochrome	21.3" LED 3M monochrome	21.3" LED 5M monochrome
<b>Resolution</b>	1600 x 1200	1600 x 1200	2048 x 1536	2560 x 2048
<b>Response Time</b>	35ms	40ms	40ms	25ms
<b>Brightness (max)</b>	760 cd/m <sup>2</sup>	1200 cd/m <sup>2</sup>	1200 cd/m <sup>2</sup>	1200 cd/m <sup>2</sup>
<b>Contrast Ratio</b>	1200:1	1400:1	1400:1	1200:1
<b>View Angle</b>	176°	176°	176°	176°

*Complete List and Prices of Diagnostic Monitors on request*

#### **1b) Colenta DX Easy Imaging Capture Console:**

- Processor min. Intel Core i5
- 4096 MB Memory
- 2x HDD S-ATA 320 GB - RAID1
- 2x GBit LAN controller
- Intel VGA graphic controller with 24 bit color depth  
Video Mode of graphic card supports OpenGL V1.1  
min. Screen resolution 1024x768 pixel
- CD/DVD-writer
- Keyboard and mouse
- Operating system Windows 8.1
- Preinstalled and tested by Colenta



#### **1c) DX Easy Imaging Acquisition Software and DX Easy Imaging Processing Software**



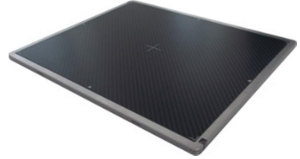
- Module image diagnosis
- Module viewer standard
  - Zoom
  - Rotation and mirror (turn to the left, turn to the right, flip, mirror)
  - Window levelling (Gradation - brightness, contrast and gamma value)
  - Contrast inversion
  - Measurement (Angle, Distance, Outline)
  - Radiography Marker (Left / Right markers)
  - Add Text
- Module patient viewer, CD/DVD
- Image storage facility for approx. 1000 images, exceeding images are automatically erased



#### **1d) DX Easy Imaging DICOM print module (1 printer)**

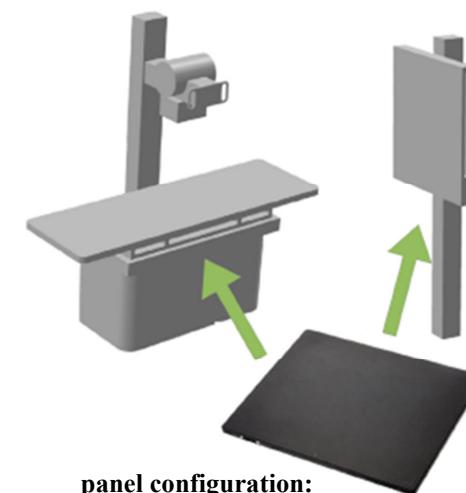
#### **1e) DX Easy Imaging DICOM modality (work list + send/store)**

**Note:** Several software modules are available for the Colenta Acquisition Software.  
Please refer to the price list.

## 2) DR Panels

<b>Active Area</b> 14" x 17" 358mm X 430mm			
	<b>PE 1417 W/WL Csl</b>	<b>KM 1417 W/WL Csl</b>	<b>VW 1417 W/WL Gadox/Csl</b>
<b>Resolution</b>	2.304 x 2.800 Pixel	1.994 x 2.430 Pixel	2.560 x 3.072 Pixel
<b>Pixel Pitch</b>	150 µm	175 µm	140 µm
<b>Grayscale</b>	14 Bit (16.383)	16 Bit (65.535)	14 Bit (16.383)
<b>Method of exposure</b>	AED (i-Sync2) / DR Trigger	DR Trigger	AED / DR Trigger
<b>Limiting Resolution</b>	3.3 lp/mm	4 lp/mm	3.5 lp/mm
<b>Weight</b>	3.7 kg (8.16 lbs)	2.9 kg (6.39 lbs)	3.1 kg (6.83 lbs)
<b>Operating Environment</b>	+5°C to +30°C / 45%-85% rH	+10°C to +30°C / 35%-80% rH	+10°C to +35°C / 30%-85% rH
<b>Storage and Transport</b>	-10°C to +40°C / 45%-85% rH	-20°C to +50°C / 20%-90% rH	-15°C to +55°C / 10%-90% rH

<b>Active Area</b> 17" x 17" 430mm X 430mm		
	<b>PE 1717 W/WL Csl</b>	<b>KM 1717 W/WL Csl</b>
<b>Resolution</b>	3.072 x 3.072 Pixel	2.428 x 2.428 Pixel
<b>Pixel Pitch</b>	139 µm	175 µm
<b>Grayscale</b>	14 Bit (16.383)	16 Bit (65.535)
<b>Method of exposure</b>	AED (i-Sync2) / DR Trigger	DR Trigger
<b>Limiting Resolution</b>	3.4 lp/mm	3.4 lp/mm
<b>Weight</b>	4.7 kg (10.36 lbs)	3.6 kg (7.94 lbs)
<b>Operating Environment</b>	+5°C to +30°C / 45%-85% rH	+10°C to +30°C / 35%-80% rH
<b>Storage and Transport</b>	-10°C to +40°C / 45%-85% rH	-20°C to +50°C / 20%-90% rH



panel configuration:  
single, dual or multiple

### Additional Colenta DR DX Easy Imaging Multi Panel package

**Note:** In case an additional DR Panel (same Type) should be used (with the same X-ray generator) an Upgrade of the *DX Easy Imaging software* is necessary. When the Multi Panel Kit is ordered at a later stage, installation and configuration work is required by authorized technicians.

## Colenta Dry Laser Imager - High Efficiency - Mammo Applicability



**HighCap Xp**



**HighCap XLp**

<b>Recording Method</b>	Laser exposure thermal development system	
<b>Applicable Film</b>	<p><b>MEDIPHOT DRY IMAGING FILM DL</b> (100/150 sheets/pack)                      35 x 43cm (14" x 17"), 26 x 36cm (10" x 14"),                      25 x 30cm (10" x 12"), 20 x 25cm (8" x 10")</p> <p><b>MEDIPHOT DRY IMAGING FILM DLM for Mammography</b> (150 sheets/pack)                      26 x 36cm (10" x 14"), 25 x 30cm (10" x 12"), 20 x 25cm (8" x 10")</p>	
<b>Film loading</b>	Daylight film loading	
<b>Film magazines</b>	2 trays online	3 trays online
<b>Processing Capacity</b>	approx. 80 sheets/hour at 35 x 43cm (14" x 17")  approx. 100 sheets/hour at 20 x 25cm (8" x 10")	approx. 110 sheets/hour at 35 x 43cm (14" x 17")  approx. 160 sheets/hour at 20 x 25cm (8" x 10")
<b>Pixel size</b>	50 um (508 dpi)	
<b>Recording gradation</b>	14 bits (16383)	
<b>Image Memory</b>	1 GB	
<b>Density adjustment</b>	Automatic density correction	
<b>Input channels</b>	DICOM network input x 1 channel only	
<b>Power Supply Conditions</b>	Single phase 50-60Hz AC120-240V±10%	
<b>Environmental Conditions</b>	Temperature: 15-30°C Humidity: 15-70%RH (No dew condensation)	
<b>Weight</b>	104 kg (229.3 lbs.)	160 kg (353 lbs.)
<b>Dimensions (WxDxH)</b>	610 x 630 x 893 mm (24" x 25" x 35")	600 x 585 x 1090 mm (24" x 23" x 43") – w/o sorter 600 x 585 x 1390 mm (24" x 23" x 55") - with sorter
<b>OPTIONS</b>	Optional Tray Floor Fix Kit	4-bin sorter

**MEDIPHOT DL – Dry Laser Imaging Film:**

Matching with Colenta HighCap Xp/XLp Printers, the low fog, consistently clear, the **Dry Laser Film DL** delivers high density images at neutral colour tone, comparable to those from conventional wet processing.

Film size	Quantity/Package
35 x 43cm (14" x 17")	100 sheets + 1 protective sheet
26 x 36cm (10" x 14")	150 sheets + 1 protective sheet
25 x 30cm (10" x 12")	150 sheets + 1 protective sheet
20 x 25cm (8" x 10")	150 sheets + 1 protective sheet

**MEDIPHOT DLM – Dry Laser Mammography Imaging Film:**

Matching with Colenta HighCap Xp/XLp Printers, the low fog, consistently clear, the **Dry Laser Film DLM** delivers high density images (D-max of 4.0) at a blue film colour, and better sharpness compared to DL. The DLM also has adequate image quality for mammography.

Film size	Quantity/Package
26 x 36cm (10" x 14")	150 sheets + 1 protective sheet
25 x 30cm (10" x 12")	150 sheets + 1 protective sheet
20 x 25cm (8" x 10")	150 sheets + 1 protective sheet