

Retro Print

Retrofit Bundle (DD-14CSI+HRG2)



Convert Analog X-Ray Rooms, CR and older DR Panels Simply and Cost Effectively



CODONICS

Defining Image Distribution

Retro Print

Retrofit Bundle (DD-14CSI+HRG2)

Overview

Codonics Retrofit Bundle DD-14CSI+HRG2 offers a complete solution for effortlessly upgrading your analog x-ray system or CR to a modern digital solution. Our wireless DR panel can conveniently fit into your current table, wall bucky, mobile x-ray system or just simply be used at the bedside. The sync-less x-ray trigger in the panel will not change your workflow or the x-ray hardware, yet greatly improves your efficiency. The Horizon Multi-media Imager will complete the solution by providing an array of digital hardcopy media outputs. The return on investment (ROI) is significant in FTE expense savings.

Key Benefits:

- Fast and seamless upgrade without any modification to your existing x-ray system creates digital images in seconds, significantly reducing your existing exam times and greatly improving productivity
- Native mini PACS architecture enables full DICOM network connectivity
- When combined with our versatile digital hardcopy, referring physicians benefit from high quality prints for patient communication and file copies

Key Components:

- 1417V CSI (upgradeable to 1717V CSI or 1717V GOS)
- Horizon G2 (upgradeable to Horizon GS)
- Console software offering more than just image acquisition

Imager

Print Technology: Direct thermal (dry, daylight safe operation)

Spatial Resolution: 320 DPI (12.6 pixels/mm)

Throughput: Up to 100 films per hour

Time To Operate: 5 minutes (ready to print from "off")

Grayscale Contrast

Resolution: 12 bits (4096)

Media Inputs: Two supply cassettes, 80-100 sheets each

Media Outputs: One receive tray, 50-sheet capacity

Media Sizes: 8" x 10", 14" x 17" (blue and clear), 11" x 14" (blue) DirectVista® Film
Optional A, A4, 14" x 17" DirectVista Grayscale Paper

Dmax: >3.10 with DirectVista Film

Archival: >20 years with DirectVista Film, under ANSI extended-term storage conditions

Media Supply: All media is pre-packaged and factory sealed

Interfaces:

Standard: 10/100/1,000 Base-T Ethernet (RJ-45), Serial Console

Network Protocols:

Standard: 24 DICOM connections, FTP, LPR

Optional: Windows network printing

Image Formats: Standard: DICOM, TIFF, GIF, PCX, BMP, PGM, PNG, PPM, XWD, JPEG, SGI (RGB), Sun Raster, Targa

Optional: PostScript™ compatibility

Image Quality: Manual calibration

Image Control: Gamma, Contrast, Polarity, Rotation, Scaling, Anti-aliasing

Sheet Control: Density Adjustment (Dmax), Look-Up Tables (LUT), Image Warnings, Captions, Sheet Coverage, Border Fill, Crop Anchor

Sheet Formatting: 1:1-1:81; Variable Multi-Formatting (VMF™), Fixed Multi-Formatting (FMF™)

Control Panel: Large, backlit LCD display, Status lights include Online, Alert, Fault, Active Power and Menu navigation buttons

Processor: Intel

Memory: 1GB

Hard Disk: SSD, 32GB (24GB available for spooling)

Removable Storage: USB for software upgrades

Smart Card: 72 KB for storing configuration data

Power:

Universal Input: 100-120/230V~ 50/60 Hz, 400W printing, 45W idle

Heat Emission: Maximum 400W, 1,366 BTUs /hr. printing, 45W, 153 BTUs /hr. idle 66 lbs. (30 kg.)

Weight:

Engine

Dimensions: 14.5" (37 cm) H, 20.5" (52 cm) W, 24" (61 cm) L

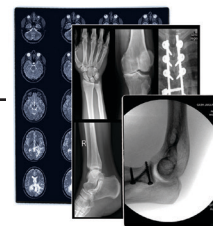
Environment:

Operating Temperature: 15-30°C

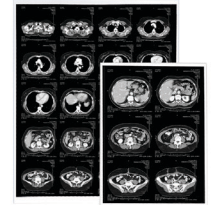
Storage: -22 - 50°C

Operating Humidity: 10-70% R.H. (non-condensing)

Regulatory: Full medical device compliance including Class 2 FDA and Class 1 MDD CE, GMP/QSR, ISO 13485:2003, 60601-1 Safety (2nd and 3rd Edition) and EMC/EMI (60601-1-2 and FCC Class B) for Healthcare Facilities

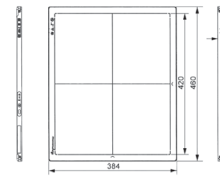


BLUE & CLEAR FILM

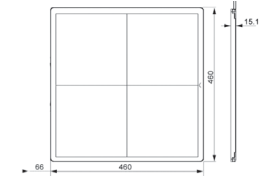


GRAYSCALE PAPER

DD-14CSI+HRG2
14x17



DD-14CSI+HRG2 (CNG-14-17 option)
17x17



Console Software:

- Image acquisition
- Detector calibration
- Gridline suppression
- AIP (Advanced Image Processing)
- DICOM Store and Storage Commit
- DICOM Print
- DICOM Modality Worklist (MWL) / Modality Performed Procedure Steps (MPPS)

- DICOM viewer
- Auto window level
- Measurements and annotation
- Patient CD
- Mini PACS
- Stitching for long film (optional)
- Multi detector support (optional)

Wireless Cassettes

Detector Technology: Amorphous Silicon

Scintillator: CSI (Directly Deposit)

Active Area: 345.6mm x 420mm

Pixel Pitch: 150µm

Number of Pixels: 2288 x 2784 CSI

AD Conversion: 14bits

Cycle Time: <21s

Data Interface/Detector: WIFI/Ethernet

Control Trigger Mode: i-Sync 2 (Auto Exposure Detection) Software

Wireless Mode: 2.4G/5G, with internal AP

Internal Image Storage: 200 full size images

Battery: 3h (Full performance)

Charging Time: 2h

Shock Tolerance: High

Water Proof: IPX1

Limiting Resolution: 3.4 lp/mm

Accessories: Charging dock, cables, 2 batteries

Operating Temperature: 5-30°C

Storage Temperature: -10 - 40°C

Operating Humidity: 45-85%

Storage Humidity: 45-85%

Dimension: 384 x 460 x 15.2mm

Weight: 3.7kg(CSI)

Power Consumption: Max. 15W (Full performance)

Adapter:

AC input: 110-240V, 50-60Hz

Regulatory: Medical device compliance including Class II FDA* and Class IIB MDD-CE 93/42/EEC, GMP/QSR, ISO 13485:2003 & AC:2009, IEC60601-1 Safety & IEC60601-1-2 EMC/EMI and FCC Class B for Healthcare facilities (ID:2ACHK-02110113)



We bring the future into focus

17991 Englewood Drive
Middleburg Heights, OH 44130 USA
+1.440.243.1198
+1.440.243.1334 Fax
Email info@codonics.com
www.codonics.com

Call Codonics today at **+1.440.243.1198** or visit **www.codonics.com** for more information.

All registered and unregistered trademarks are the property of their respective owners. Specifications subject to change without notice. www.codonics.com/ip/patents/ Copyright © 2006-2017. Codonics Inc. 2/2017
*Pending FDA clearance to market



Our Retrofit Bundle Solution enables you to go digital – and save!

- Eliminate wet processing • Save time • Save money

Convert

Existing analog room to digital

Our digital, wireless seamlessly converts your existing analog or CR x-ray equipment to a highly reliable DR system. Our retrofit bundle includes an innovative mobile cassette detector with a versatile dry imager or medical disc publisher to provide you with a solution that delivers lower dose, faster imaging, unparalleled reliability and superior image quality -- at an incredibly affordable price. Robust and versatile, you can be assured of optimal acquisitions from the largest patient or the least powerful mobile system with our superior trigger sensitivity.

No matter where you need to use the cassette, our innovative pocket handle¹ enables you to quickly and safely move it anywhere. Let us help you customize a DR solution that fits your needs and your budget.



Why DR?

With increasingly demanding radiology workflows, DR technology offers many advantages, and going from analog to digital is easier than you might think. A wireless detector, battery, mini PACS software, and a robust console readies you for installation. You'll immediately begin saving time, space and money while greatly improving the patient experience and your workflow.



iCassette-wireless cassettes

A retrofit solution with lower cost and easier operation, iCassette doesn't require wireless cassette detectors to be calibrated when moved between different x-ray systems, boasting its own CPU and up to 200 images on internal storage. Easy to handle, our wireless cassettes can be connected to any mobile device or Windows system without any additional Access Point (AP) or router for easy deployment. A single flat panel detector can feed a mobile x-ray machine and a fixed one, so you can use our wireless cassette detector in a fixed x-ray room then remove it and use it on a mobile x-ray with ease.

Acquire

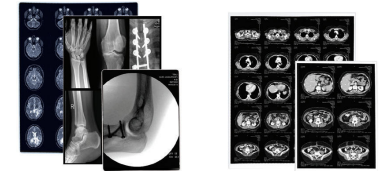
Robust console software for:

- Image acquisition
- Detector calibration
- Gridline suppression
- AIP (Advanced Image Processing)
- Auto window level
- Measurements and annotation
- DICOM Store and Storage Commit
- DICOM Print
- DICOM Modality Worklist (MWL) / Modality Performed Procedure Steps (MPPS)
- DICOM viewer
- Patient CD
- Mini PACS
- Stitching for long film (optional)
- Multi detector support (optional)



View

Film / Paper



BLUE & CLEAR FILM
14"x17", 11"x14", 8"x10"

GRAYSCALE PAPER
14"x17", 8½"x11"

Discs



Store via



Other Applications

CR to DR
is just
as easy



Convert
your mobile
environment

