Retro Print Pro

Retrofit Bundle DD-14CSI-X(Cesium Iodide)+HRG1

High Resolution • Excellent Image Quality • Fast Performance • Light Weight

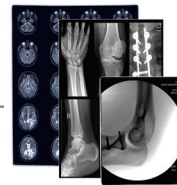Convert Analog X-Ray Rooms, CR and older DR Panels Simply and Cost Effectively

CODONICS
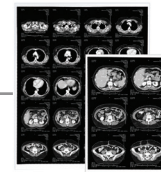
Defining Image Distribution

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BLUE & CLEAR FILM   GRAYSCALE PAPER

DD-14CSI-X+HRG1
14x17

DD-CNG-14-17-X Option
17x17

Overview

Codonics Retrofit Bundle DD-14CSI-X+HRG1 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:

- Panel offers 100 micron pixel pitch with ≤1s preview, ≤3s post processing and <8s full cycle time.
- 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:

- 1417V3 CSI-X Cesium Iodide
- Horizon G1 (upgradeable to Horizon G2 or GS)
- Console software offering more than just image acquisition

Console Software:

- Image acquisition
- Detector calibration
- Gridline suppression (for static grids with 40 lines/cm and 43 lines/cm)
- 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
- Manual stitching for long film (Automated stitching optional)
- Multi detector support (optional, up to 3 FPD)
- Flyviewer (Tablet support)

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:	One supply cassette, 80 - 100 sheets
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:

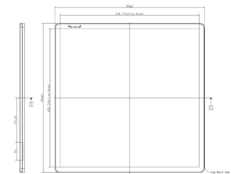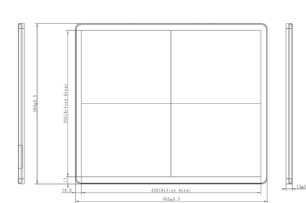|	
Standard:	24 DICOM connections, FTP, LPR
Optional:	Windows network printing
Image Formats:	Standard: DICOM, TIFF, GIF, PCX, BMP, PGM, PNG, PPM, XWD, JPEG, SGI (RGB), Sun Raster, Targa
Optional:	PostScript™ compatibility
Image Quality:	Manual calibration
Image Control:	Gamma, Contrast, Polarity, Rotation, 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
Weight:	66 lbs. (30 kg.)
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 I MDR 2017/745/EU (CE), GMP/QSR, ISO 13485:2016/NS-EN ISO 13485:2016, Electrical Safety IEC 60601-1 Ed. 3.1 and EMC/EMI: FCC Class A and IEC 60601-1-2: Ed. 4 for Professional Healthcare Facilities

CE

Wireless Cassettes

Detector Technology:	Amorphous Silicon
Scintillator:	CSI (Cesium Iodide)
Active Area:	14x17: 350mm x 430mm 17x17: 427mm x 427mm
Pixel Pitch:	100 μm
Number of Pixels:	14x17: 3500 x 4300 17x17: 4267 x 4267
AD Conversion:	16bits
Cycle Time:	<8s
Data Interface/Detector:	WIFI (802.11ac)/Ethernet
Control Trigger Mode:	i-Sync 2 (Auto Exposure Detection) Software
Wireless Mode:	2.4G/5G, with internal AP
Battery:	>8.5h (Full performance)
Charging Time:	<4h
Shock Tolerance:	High
Ingress Protection:	IP56
Limiting Resolution:	14x17: 5 lp/mm; 17x17: 4.3 lp/mm
Accessories:	Charging dock, adapter, cables, 2 batteries
Operating Temperature:	10 - 35°C
Storage Temperature:	-20 - 55°C
Operating Humidity:	5 - 90%
Storage Humidity:	5 - 95%
Dimension:	14x17: 384 x 460 x 15mm 17x17: 460 x 460 x 15mm
Weight:	14x14: 3.0kg;17x17: 3.4kg
Power Consumption:	Max.15W (Full performance)
Adapter: AC input:	110-240V, 50-60Hz

Regulatory: Medical device compliance Class IIB MDD-CE 93/42/EEC, GMP/QSR, EN ISO 13485:2016, IEC 60601-1 Safety & IEC 60601-1-2 EMC/EMI and FCC Class B for Healthcare Facilities (MARS1417X FCC 2ACHK-01070189 & MARS1717X FCC 2ACHK-01070189)

CODONICS
We bring the future into focus

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

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