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V.A. Medical Center
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Cardius® 2 XPO

Cardius 2 XPO is Digirad's dedicated dual-head, solid-state imaging system for nuclear cardiology. The Cardius 2 XPO system features two High-Definition solid-state digital detectors (HDSD), an exclusive compact open gantry permitting operation in rooms as small as 7' X 8' (56 sq. ft.), and an advanced patient handling system that makes it possible to image patients up to 500 pounds. The Cardius 2 XPO is all about delivering more comfort for patients, higher clarity diagnostic results and high throughput while producing images of superb quality. The Cardius 2 XPO system is a compact, open and modern design fitting in small rooms without the need for architectural modifications. Weighing less than 700 lbs, the Cardius 2 XPO fits through standard 3' doors and elevators and can be installed in 2 days.

Distinguishing features include:

- Dual-head High-Definition Solid-State Detectors (HDSD)
- A patient chair design with 500lb patient weight limit capacity
- A 15" display monitor consisting of a state-of-the-art active matrix color LCD screen
- SeeQuanta™ Acquisition software featuring user-friendly, pull-down style menus and multiple active windows
- TruACQ™ CountBased Imaging to ensure conformance to ASNC recommended count density guidelines
- Digirad nSPEED™: 3D OSEM Fast Image Acquisition Software Kit
- Enhanced patient comfort tools with an integrated step stool, tri-level foot rest, and retractable seat belt
- Two very thin, light weight solid-state detector heads – 3.5 inches thick with cardiac collimators attached
- Motion Correction Software
- Shielded for imaging at 60-300 keV

Physical Specifications	**Cardius 2 XPO**	**Cardius XPO (A/PS)**
· Length	152 cm (60 in)	72 cm (28 in)
· Width	73 cm (29 in)	83 cm (33 in)
· Height	170 cm (67 in)	99 cm (39 in)
· Weight	303 kg (668 lbs)	59 kg (130 lbs)

Digirad nSPEED™: 3D OSEM Fast Image Acquisition Software Kit
nSPEED, Digirad's 3D-OSEM Reconstruction software, is an advanced image reconstruction algorithm that models the 3D spatial response of the detectors. nSPEED has been shown to significantly improve the resolution of SPECT images as compared to 2D reconstruction. Digirad's nSPEED reconstruction software is optimized for solid-state detector systems and is integrated within Digirad's existing processing workstation.

DICOM Modality Worklist for SeeQuanta Acquisition Software:
Queries RIS via a PACS broker or PACS DICOM modality worklist service to start a new study in Digirad without needing to type patient/study demographic info.

Biomedical Engineer Training - Cardius
Cardius Series Biomed Engineer Training is a 3-day course hosted at Digirad's Poway, CA facility bi-annually. Customer is responsible for Travel / Lodging / Meal logistics and expenses. Attendee(s) will receive Service materials for the product purchased (Service Manual and Preventative Maintenance Checklist). Training will cover Manufacturer's suggested Preventative Maintenance Service and High Level Assembly Troubleshooting in a hands-on classroom setting. Any training not completed within 18 months of Equipment installation date is subject to forfeiture and not eligible for refund.

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CSMC Deluxe Perfusion SPECT (QGS+QPS)

Cedars-Sinai Deluxe Perfusion SPECT (QGS+QPS) provides cardiac function and perfusion quantitation using gated and ungated MPI datasets: ED and ES volumes, ejection fraction, and perfusion measures such as SSS/SRS/SDS and TPD. The image data can be viewed in a variety of modes, from selected slices in a 2D view to a rendered 3D surface of the myocardium with parametric maps (perfusion, motion, thickening and regional EF).

Key Features include:
- Patient browser with multi-modality data support. Includes easy-to-use management tools (on-the-fly filtering, custom tags, comments, folders)
- Multiple data import/export options for local and remote systems (DICOM Push, DICOM Q/R, FTP, telnet, etc.)
- CSImport– Data management utility also serves as launcher for CSMC software applications including QGS, QPS and QBS (if applicable)
- Multi-monitor support – application supports unlimited number of displays.
- Quality control (raw cine review, quality score)
- Motion-Frozen analysis – improves image resolution and contracts
- Phase analysis (histogram, bandwidth, standard deviation, entropy)
- Smart launch for integration with presentation software (PowerPoint)

CSMC Quantitative Blood Pool SPECT (QBS)

Cedars-Sinai Quantitative Blood Pool SPECT (QBS) is an interactive standalone application for the automatic segmentation and quantification of gated short axis blood pool (red blood cells, RBC), SPECT.

Key Features include:
- Automated LV & RV systolic and diastolic quantification
- Display of planar images, raw projection images and snapshots (screen captures).
- Calculation and display of polar maps representing wall motion, including FFH amplitude and phase.

System Software for all Workstations, Notebooks and Software Only Offerings (Must Have):
- Microsoft Windows XP or Windows 7 Operating System
- Microsoft Office Professional 2007 or newer
- Comprehensive Problem Solving Suite and Virus Protection with Norton System Works Professional ONLY
- Internet access for remote diagnostic and troubleshooting.

Equipment Service Warranty:
Digirad's Limited Equipment service warranty period is one (1) year from completion of installation. Terms of the limited service and warranties are contained in Standard Conditions of Sale and upon request. All warranties apply only to the original purchaser.

Site Preparation:
The customer is responsible to provide the necessary network to support the communications and connectivity required for the proposed camera(s) and workstation(s). Digirad will provide the required specifications upon request.

ORDERED ITEMS	
Qty	**Description**
1	Cardius 2 XPO (DHC) Imaging System nSPEED Software Kit: Digirad's 3D-OSEM Reconstruction Software Acquisition/Processing Station (A/PS) SeeQuanta® Acquisition software Digirad Processing Software Motion Correction Software Interfile Import/Export Option (for imager) DICOM Push (direct connect with workstations) Cardiac Collimators (2) ECG Cardiac Gate, AccuSync 4200-3 (Integrated) Accessory Kit (includes 2 flood containers & source holder) Patient Positioning Strap Uninteruptable Power Supply (external) Operator's Manual Onsite Applications Installation/Training (Up to 3 days)
1	nSPEED Software Kit: Digirad's 3D-OSEM Reconstruction Software install on Workstation
1	10 mCi Cobalt-57 Sealed Flood Sheet Source (includes storage container)
1	Biomedical Engineer Training (per person) - Cardius
2	CSMC 2013 - Blood Pool Analysis (QBS)
2	CSMC 2013 - Deluxe Perfusion SPECT (QGS+QPS, Companion, CS Import, PlusPack)
1	DICOM Modality Worklist for SeeQuanta Acquisition Software
2	Workstation Additional Monitor
1	Workstation with MS Windows 7 (Single Monitor)