Cardius®

XPO Series



Cardius® 2 XPO

DIGIRAD
BY CATALYST MEDTECH

The Cardius® XPO Series

The Cardius Series of imaging systems utilizes advanced solid-state technology and cardiac software coupled with an innovative design that promotes greater comfort and optimizes diagnostic results.

Setting a new standard in the nuclear imaging industry, the increased image quality and system efficiency are hallmarks of Digirad's state of the art multi-head systems.

Digirad developed sophisticated imaging technology for both the dual and triple-head Cardius cameras. Not only do the benefits of the innovative design and capabilities substantially advance your imaging results, they also measurably improve workflow and efficiency. When you upgrade your equipment to the Cardius Series, you're taking a step into the future of nuclear medicine.



Cardius® XPO Cameras Feature:

- Solid-state Detectors
- Faster Imaging
- Higher Clarity
- Increased Comfort
- Greater Efficiency
- Patient Friendly Design
- Small Footprint

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www.digirad.com

Dual-head and Triple-head Imaging Systems

What Sets Cardius Apart?

High Definition Solid-State Detectors (HDSD)
The high definition feature of Digirad's proprietary solid-state detectors adds a superior level of image quality, reliability, and performance to these compact, rugged, and better body conforming imaging systems

TruACQ Count-Based Imaging™
Digirad's exclusive TruACQ Count-Based Imaging is the first and only "on the fly" count-based SPECT imaging technique that ensures consistent counts for every patient study regardless of patient size, weight, or dose.

Size
Lightweight and extremely compact, the Cardius system can be installed in a room as small as 7 x 8 feet (56 square feet) and can be placed on nearly any floor.

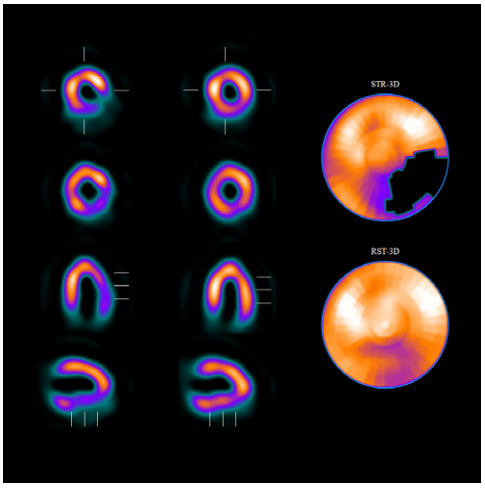
Open and Upright
Designed to be more patient friendly, the upright design allows for easier ingress and egress for patients up to 500 lbs. In addition, it can help provide better separation between the heart and viscera, improving both clinical quality and physician confidence.

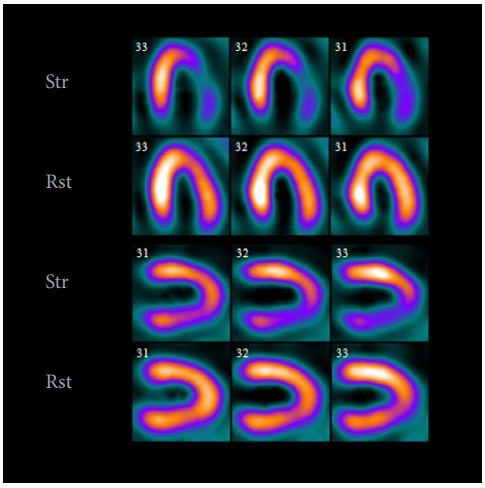


Process Optimization
The components of the imaging experience, including patient information, set-up, operation, data processing and handling, presentation of final clinical results, and reporting are significantly optimized with the Cardius system. With Digirad's SeeQuanta™ advanced acquisition software, exams are performed simply and efficiently while ensuring maximum consistency with less operative variability.

In today's healthcare environment, the need to improve efficiency and quality is of the utmost importance. That's why Digirad created the Cardius® XPO series of dedicated cardiac SPECT imaging systems.

The compact, patient-friendly, open design features exclusive solid-state detectors and advanced cardiac software, making our dual-head Cardius 2 XPO and triple-head Cardius 3 XPO the preferred choice of industry-leading cameras.





Three imaging systems, all of which provide outstanding image quality, superior efficiency, and increased patient comfort.



Cardius® 2 XPO

Includes the standard features of the XPO series with modern dual-head solid-state technology.



Cardius® 2M XPO

Includes the standard features of the Cardius 2 XPO specially designed to endure a mobile environment.



Cardius® 3 XPO

Specifications are similar to the Cardius 2 XPO with the addition of a third detector for further reduction in dose and/or imaging time.

Improve speed and efficiency with triple-head technology

The Cardius 3 XPO system packs even more imaging power with its triple-head detector design. The Cardius 3 XPO is the only solid-state camera dedicated for nuclear cardiology SPECT applications to feature three detectors. More efficient than competitive dual-head system designs, it offers enhanced workflow and imaging efficiency while maintaining its superior resolution and imaging quality.

Consider the Cardius 3 XPO for:

- Optimum diagnostic results
- High definition, solid-state, triple-head detectors
- Up to a 38% increase in patient throughput

CARDIUS XPO IMAGING SYSTEM

Technical Specifications

DETECTORS

detector technology	solid state, segmented CsI (Tl)/ silicon photodiode
field-of-view (rectangular)	15.8 x 21.2 cm [6.2 x 8.3 in]
pixel size (voxel)	6.1 x 6.1 mm
reconstructed spacial resolution	
FWHM (typical value)	15.8 mm @ 20 cm orbit radius
energy resolution	< 10.5 %
energy range	50 - 170 keV
sensitivity	225 cpm/uCi

GANTRY

type	upright chair
length	152 cm [60 in]
width	73 cm [29 in]
height (from floor to top of arm rest)	170 cm [67 in]
system weight C2 XPO	342 kg [755 lbs]
system weight C3 XPO	376 kg [830 lbs]

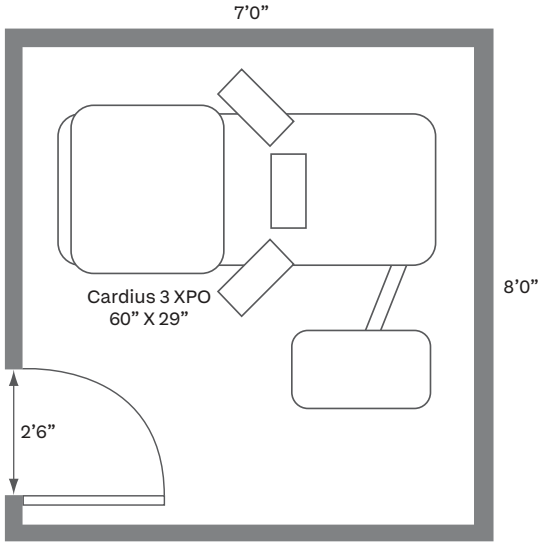
Note: specifications are subject to change. All photos and images may vary slightly from actual product.

CARDIAC IMAGING

applications	SPECT, Gated SPECT, MUGA, Planar, Planar Gated	
heart orientation	cardiocentric imaging, heart in axis of rotation	
start angle	-45 or -30° LAO	
	C2XPO	C3XPO
tomographic acquisition range	180°	202.5°
orbit radius	18 - 40.5 cm [7.1 - 15.9 in]	21 - 38 cm [8.3 – 15 in]
acquisition frames	32 or 64	30 or 60

ENVIRONMENTAL/OPERATION REQUIREMENTS

minimum room size	2.1 m x 2.4 [7 x 8 ft]
power requirements	20A (dedicated line) @ 120 VAC, 60 Hz 10A (dedicated line) @ 240 VAC, 50/60 Hz
operating temperature	18 - 27°C [65-80°F]
relative operating humidity	30 - 75%
architectural modifications	not required
environmental storage	0 - 50°C [32 - 122°F]
patient weight limit	227 kg [500 lbs]



MINIMUM ROOM LAYOUT 7' X 8' [2.1 m x 2.4 m]

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Digirad is a Catalyst MedTech Company

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