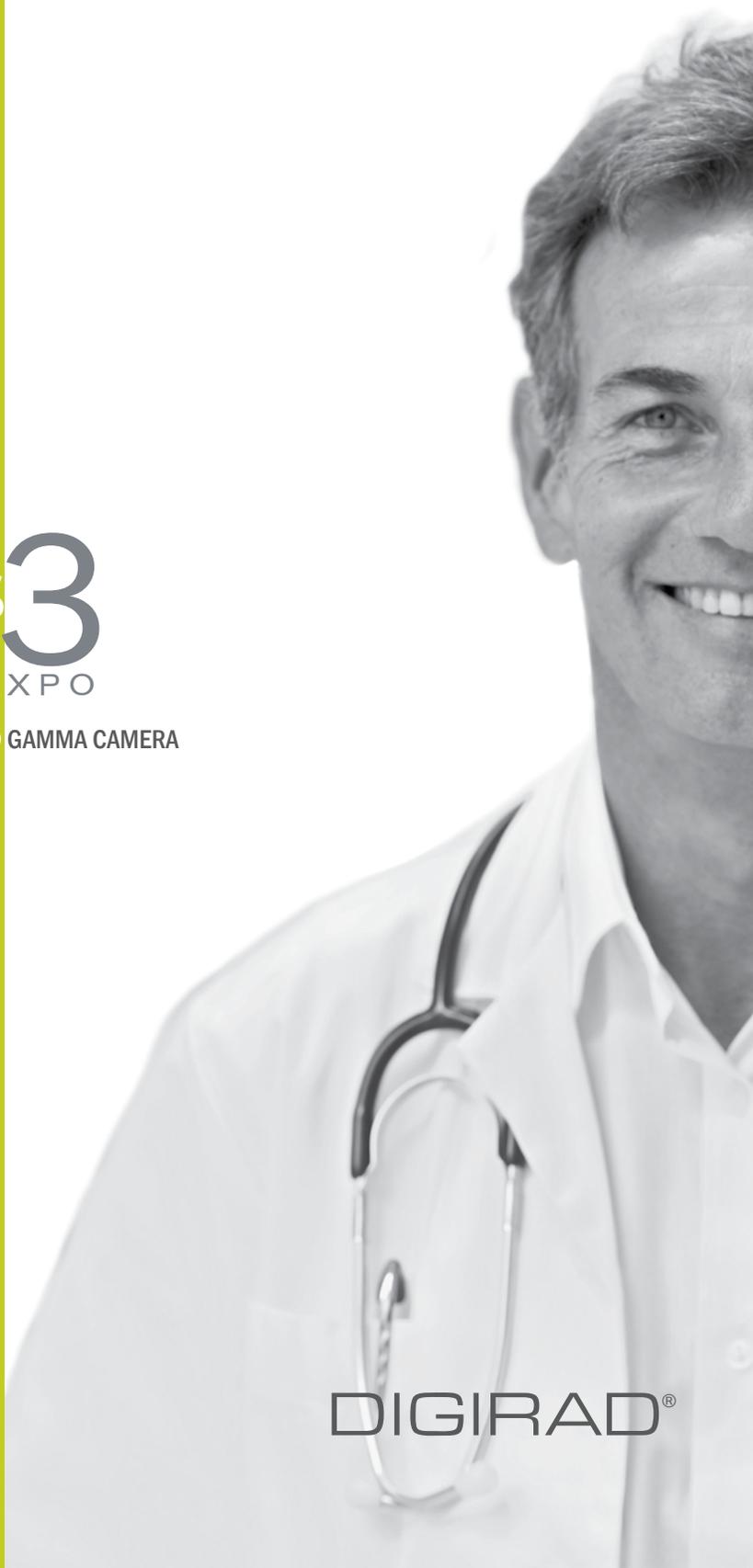


Cardius3
XPO

DEDICATED CARDIAC 3-HEAD GAMMA CAMERA

DIGIRAD®





Introducing the Cardius[®] 3 XPO from Digirad
The only dedicated cardiac SPECT 3-head
solid-state technology gamma camera



MORE COMFORT, HIGHER CLARITY, FASTER IMAGING

At a time when medical services and practices are looking for ways to improve efficiency and quality, Digirad's new Cardius® 3 XPO imaging system is the only dedicated camera for nuclear cardiology SPECT applications to feature three detectors. The Cardius 3 XPO provides up to a 38% imaging acquisition efficiency advantage over other industry-leading cameras while maintaining comparable image quality.

DIGIRAD®

EFFICIENT 3 HEAD DESIGN

Up to 38% more efficient than competitive dual-head system designs and capable of performing a 7-minute stress acquisition study, the Cardius 3 XPO offers enhanced workflow and imaging efficiency while maintaining resolution and image quality.

HIGH-DEFINITION SOLID-STATE [HSDS] AND TRUACQ COUNT-BASED IMAGING™

Digirad's Solidium® HSDS (high-definition solid-state detectors) offer a number of distinct performance enhancements over conventional Anger (photomultiplier tube-based) detector systems with demonstrated outstanding image quality, consistency and reliability.

Solid-state detectors are more compact, more rugged and conform better to the typical cardiac patient's body geometry. The XPO series cameras introduce new Solidium HSDS (high-definition solid-state detectors) that raise the standard in image quality, reliability and performance to a new level for the industry and the practice of nuclear cardiology.

The XPO series pushes the envelope one step further with the introduction of another Digirad exclusive - TruACQ Count based Imaging™, the first and only count-based SPECT imaging technique that ensures consistent counts for every patient study...regardless of patient size, weight or dose.

OPEN AND UPRIGHT

Solid-state technology offers a whole new range of possibilities for innovations in nuclear camera design due to the fact that it is lightweight, rugged and extremely compact. The Cardius 3 XPO system packs more imaging power into a sleeker, smaller design that is more open than other system designs. It's why Cardius systems are more patient-friendly and enable imaging patients up to 500 lbs.

The upright design makes patient ingress and egress so easy; it also offers a significant clinical advantage as the upright position lowers the diaphragm, providing better separation between the heart and gut, and improving both clinical quality and physician confidence.

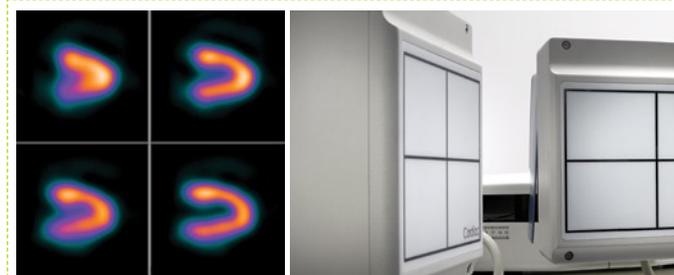
FASTER
IMAGING

HIGHER
CLARITY

MORE
COMFORT



Cardi





USER FRIENDLY

FROM START TO FINISH

Every action involving the patient, set-up and operation, data processing and handling, presentation of final clinical results and reporting... all were optimized on the Cardius 3 XPO.

Digirad's SeeQuanta™ advanced acquisition software makes performance of exams simple and efficient, while ensuring maximum consistency and quality for every patient study with less operative variability.

SeeQuanta™ features:

- AcqSmart™ workflow tools
- TRUACQ Count-Based Imaging™ acquisition
- Advanced Windows XP .Net platform
- User-friendly modern interface
- Persistence ROI drawing capability
- Seamless database integration

EASY TO SITE

SMALL SIZE

The small size and low weight of the Cardius 3 XPO system offers siting possibilities that are virtually off-limits for other camera designs. The system can be sited in a room as small as 7 X 8 feet (56 square feet) and can be placed on nearly any floor (weighs less than 900 pounds).

Generally no room modifications are required and the system's electrical requirements are modest. Note: For California, as the system does not require floor mounting, no changes are required to meet OSHPD requirements. Installation can occur immediately.

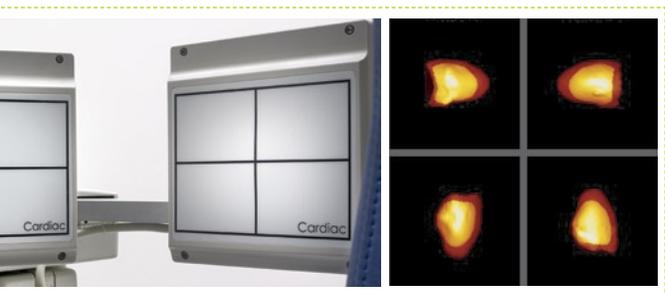
MORE FLEXIBILITY

ADAPTABLE FOR THE FUTURE

The Cardius 3 XPO system offers flexibility in ways that might not be readily imagined, such as the ability to simply relocate the system to another office or room, if the need arises. The XPO series cameras are built on modular upgradeable foundations, permitting easy migration from single to fixed dual or triple-head configurations.

The solid-state detectors' high count rate performance offers the reserve capacity to meet the potential demands of proposed future radiopharmaceuticals and higher speed imaging techniques.

Cardius 3 XPO



Cardius 3 XPO - Faster speed. Larger patients. Higher quality.

COMFORTABLE

Compact and open design



SIMPLE

Patient access



VERSATILE

Imaging of patients up to 500 lbs



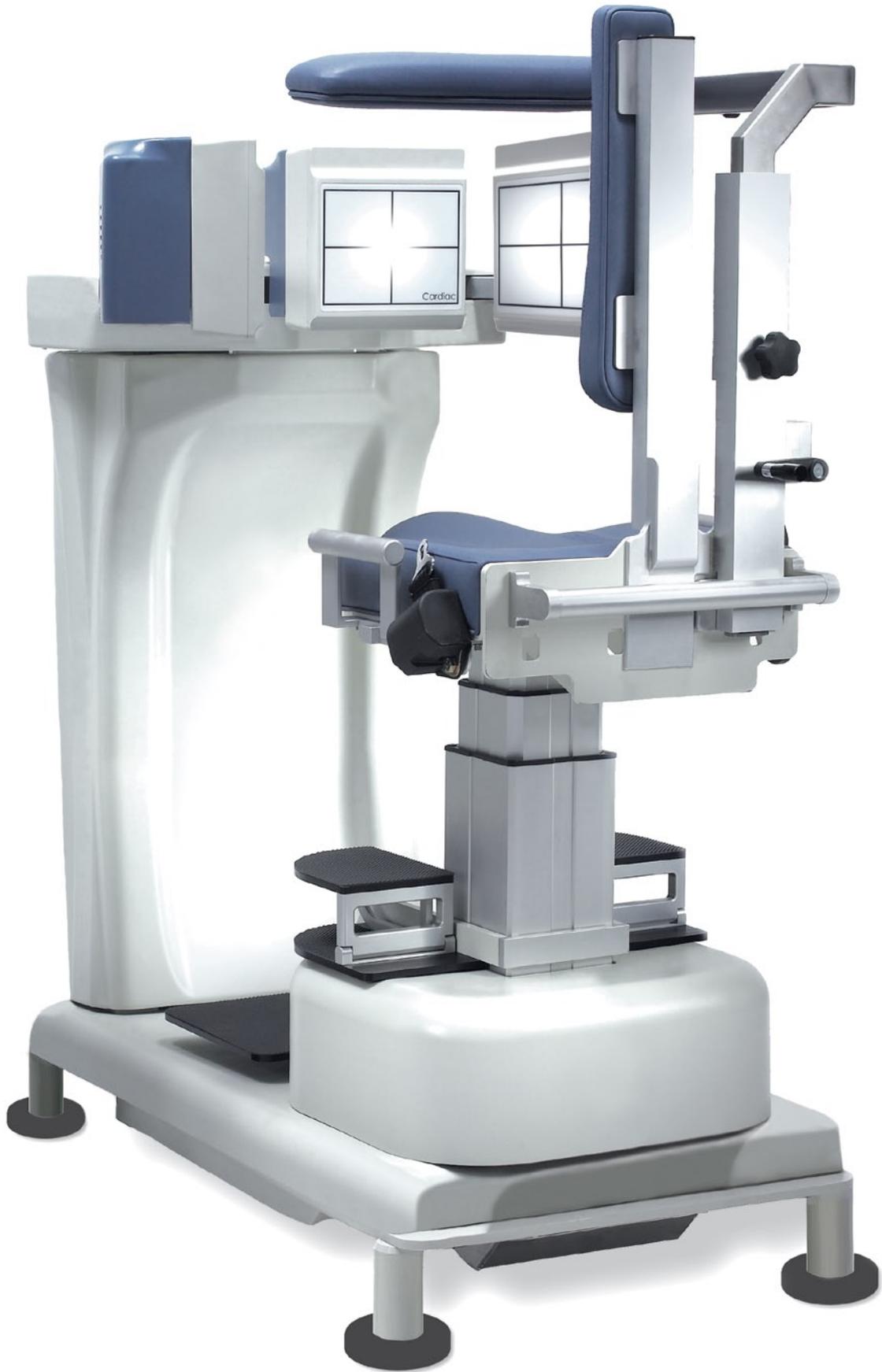
EFFICIENT

3-head design



www.digirad.com 800-947-6134

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CARDIUS 3 XPO TRIPLE-HEAD CAMERA

DETECTORS

detector technology	solid-state
crystal type	pixelated crystals
detector material	CsI [TI]
physical dimensions [cm, in]	24 x 25.4 x 10 cm [9.5 x 10 x 4"]
wt. w/ collimator [lbs, kg]	19 kg [42 lbs]
type	triple head camera
field-of-view [rectangular] [cm, in]	15.8 x 21.2 cm [6.2" x 8.3"]
useful field-of-view	15.8 x 21.2 cm [6.2" x 8.3"]
number of pixels per detector	768
pixel size [voxel]	6.1 mm x 6.1 mm
lead shielding	170 keV
reconstructed spacial resolution [FWHM] with scatter	11.00 mm @ 20 cm orbit radius [LEHR]
energy resolution	< 10.5 %
energy range	50 - 170 keV
sensitivity [cpm/uci]	160 cpm / uci [LEHR]

PATIENT CHAIR

type	upright chair
attenuation	0 %
length	142 cm [56 in]
width	73 cm [29 in]
height [from floor to top of seat - low]	85 cm [33.5 in]
height [from floor to top of seat - high]	115 cm [45.5 in]
weight [with out detectors]	284 kg [624 lbs] est.
patient weight limit	227 kg [500 lbs]

ACQUISITION/PROCESSING STATION [A/PS]

acquisition console	flexible positioning
acquisition workstation	PC with single monitor and keyboard
height [work surface]	adjustable 76.2 cm [30 in] to 101.6 cm [40 in]
width	51 cm [20 in]
depth / length	66 cm [26 in]
system speed	Min. 2.8 GHz P4, 1 GB RAM
operating system	Windows XP
spectrum analyzers	10 bit [part of detector head]
acquisition matrix	64 x 48
count rate [max.]	> 3.5 million counts / sec
persistence scope	32 x 24
display features	frame or cine display
display color depth	true color
multitasking	simultaneous acquisition and processing
isotopes imaged	TI-201, Tc-99m, Co-57
A / PS weight with laptop	34 kg [75 lbs] est.

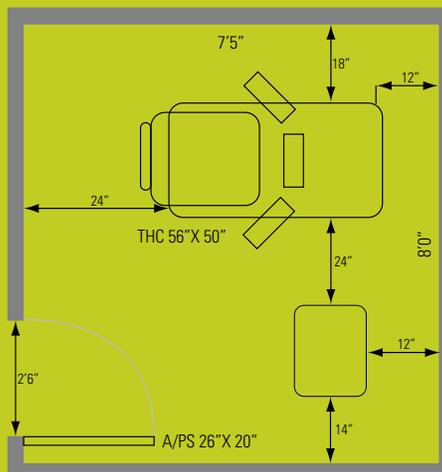
CARDIAC IMAGING

applications	MUGA, SPECT, Gated SPECT
tomographic rotation	202.5°
start angle	-45° or -38° LAO
angular sampling	3.375 deg. or 6.75 deg.
speed of rotation	0.8 sec dwell between frames
heart orientation	cardiocentric imaging, heart in axis of rotation
orbit radius	18.8 - 35.5 c, [7.4 - 14 in]
arm rest height (min, max)	61 cm - 86.3 cm [24 in - 34 in] from seat surface
acquisition frames	30 or 60 frames

ENVIRONMENTAL/OPERATION REQUIREMENTS

system total weight	370 Kg [815 lbs] est.
minimum room size	8'x 7'
power requirements	20A [dedicated line] @ 120 VAC, 60 Hz
recommended operating temperature range	18 - 27°C [65-80°F]
relative humidity [non-condensing]	30 - 75%
architectural modifications	not required
environmental storage [system]	2 - 35°C [35 - 95°F]
shipping [factory packaging]	0 - 50°C [32 - 122°F] /humidity 10-80% [non-condensing]
HVAC	2800 BTU/hr

CARDIUS 3 XPO MINIMUM RECOMMENDED ROOM LAYOUT 7'6" X 8'0"



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

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