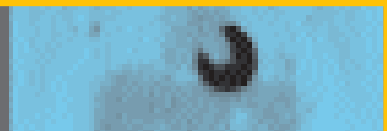


Gamma Cameras | Compiled by Mark Palacio



Company info	Product name	Clinical applications	Crystal dimensions	# of PMTs/ diameter or digital detectors	# of detector heads	Operator console features	Usable FOV (cm)	Max count rate (cps)	Specialized detection/count processing	Noise equivalent count rate	Intrinsic/extrinsic resolution
Digirad Corp. San Diego, CA http://www.digirad.com	2020tc	General planar imaging, cardiac planar, cardiac SPECT	20.3 x 20.3 cm, .6 cm (thickness)	Rectangular crystal array: 64 x 64 pixel elements (4,096 total)	One	Independent manual control of all gantry motions	20.3 x 20.3	250,000	On detector, 4,096 analog signal processing circuitry with 14-bit digitization	3-6 cps	3.3 mm intrinsic, 7.3 mm FWHM extrinsic (no scatter); 7.7 mm FWHM extrinsic (with scatter) per NEMA NU 1-2001 LEHR collimator
	Cardius SST	Cardiac planar, cardiac SPECT	15.2 x 20.3 cm, .6 cm (thickness)	Rectangular crystal array/detector: 64 x 48 pixel elements (3,072 total)	Two	Independent manual control of all gantry motions	20.3 x 15.2	250,000	On detector, 3,072 analog signal processing circuitry with 14-bit digitization	3-6 cps	3.3 mm intrinsic, 7.3 mm FWHM extrinsic (no scatter); 7.7 mm FWHM extrinsic (with scatter) per NEMA NU 1-2001 LEHR collimator
	SPECTpak	Cardiac planar, cardiac SPECT	15.2 x 20.3 cm, .6 cm (thickness)	Rectangular crystal array: 64 x 48 pixel elements (3,072 total)	One	Independent manual control of all gantry motions	20.3 x 15.2	250,000	On detector, 3,072 analog signal processing circuitry with 14-bit digitization	3-6 cps	3.3 mm intrinsic, 7.3 mm FWHM extrinsic (no scatter); 7.7 mm FWHM extrinsic (with scatter) per NEMA NU 1-2001 LEHR collimator
	SPECTpak PLUS	General planar imaging, cardiac planar, cardiac SPECT	20.3 x 20.3 cm, .6 cm (thickness)	Rectangular crystal array: 64 x 64 pixel elements (4,096 total)	One	Independent manual control of all gantry motions	20.3 x 20.3	250,000	On detector, 4,096 analog signal processing circuitry with 14-bit digitization	3-6 cps	3.3 mm intrinsic, 7.3 mm FWHM extrinsic (no scatter); 7.7 mm FWHM extrinsic (with scatter) per NEMA NU 1-2001 LEHR collimator
Gamma Medica Inc. Northridge, CA http://www.gammamedica.com	LumaGEM® 3200S	Planar imaging, including gamma emission mammography (GEM)	16 cm x 20 cm, 5 mm (thickness), CZT	Solid-state pixilated CZT camera; 5,120 discrete pixels	One	Ergonomic work stand adjusts for standing or sitting operator.	16 x 20	80,000	Static/dynamic	n/a	2.5 mm intrinsic, <4.0 mm FWHM at 2 cm extrinsic
	GammaCAM/OR™	Planar imaging including surgical imaging (e.g. lymphoscintigraphy for sentinel lymph node, parathyroid)	12.8 cm x 12.8 cm, 6 mm (thickness), NaI (TI)	Pixilated scintillator coupled to position sensitive PMT camera, 3,364 discrete pixels	One	Ergonomic work stand adjusts for standing or sitting operator.	12.5 x 12.5	50,000	Static/dynamic	n/a	2.2 mm intrinsic, <3.4 mm FWHM at 2 cm extrinsic
GE Medical Systems Waukesha, WI http://www.gemedicalsystems.com	Discovery VH	General purpose, functional anatomical mapping, coincidence imaging	21.25" x 15.75", 1" (thickness)	85 PMTs: 60 mm, 10 PMTs: 38 mm (circular)	Two	VG Acquisition provides a GUI for initiation and control of imaging functions. Acquisition software controls camera maintenance activities and daily/weekly QC tests. Acquisition console archives/networks to LAN/WAN.	21.25 x 15.75	500 kcps	VG8 nuclear imaging detectors with CoDe-VC circuitry and the Hawkeye integrated low-dose CT; 1" etched Starbrite NaI (TI) crystal; one ADC per PMT	2.1-2.9 mCi (2.4 kc/s per NEMA NU2 2001)	Intrinsic energy resolution UFOV FWHM 9.3 percent, intrinsic spatial resolution CFOV FWHM 4.5 mm, extrinsic spatial resolution with LEHR 7.7 mm
	DST-Xii	General purpose NM, ultra flexible	23.6" x 18.3", 3/8" (thickness)	86 PMTs: 2.3" hexagonal, 8 PMTs: 1.5" circular	Two	Console is used for acquisition, QC, image hard copy and data transfer. Includes a large touch screen. Links routine steps into automatic protocols. Shorter set-up times dedicated gantry control software.	23.6 x 18.3	220 kcps	Features Digital Deconvolution Detection (D3™): high count rate for coincidence imaging with uniform performance across the entire field of view, stable and reliable	n/a	Intrinsic energy resolution UFOV FWHM 11 percent, intrinsic spatial resolution CFOV FWHM 4.1 mm, extrinsic spatial resolution with LEHR 8 mm
	Infinia	General purpose NM, ultra flexible	21.25" x 15.75", 3/8" (thickness)	59 PMTs: 76 mm circular, 6 PMTs: 38 mm	Two	Acquisition software controls camera maintenance activities including: disk space management; PHA; COR; uniformity correction maps; energy, sensitivity and linearity maps; and daily/weekly QC including gantry calibrations.	21.25 x 15.75	460 kcps	Two extra-large rectangular Elite digital detectors featuring realtime corrections for uniformity, linearity, energy, isotope decay, center of rotation	n/a	Intrinsic energy resolution UFOV FWHM 9.8 percent, intrinsic spatial resolution CFOV FWHM 3.8 mm, extrinsic spatial resolution with LEHR 7.4 mm
	Infinia Hawkeye	General purpose NM, ultra flexible and functional anatomical mapping	21.25" x 15.75", 3/8" (thickness)	59 PMTs: 76 mm circular, 6 PMTs 38 mm	Two	Acquisition software controls camera maintenance activities including: disk space management; PHA; COR; uniformity correction maps; energy, sensitivity and linearity maps; and daily/weekly QC including gantry calibrations.	21.25 x 15.75	460 kcps	Two extra-large rectangular Elite digital detectors featuring realtime corrections for uniformity, linearity, energy, isotope decay, center of rotation	n/a	Intrinsic energy resolution UFOV FWHM 9.8 percent, intrinsic spatial resolution CFOV FWHM 3.8 mm, extrinsic spatial resolution with LEHR 7.4 mm

Collimator storage changing mechanism	FDG collimator?	Coincidence option/output count rate (TRUES)	Coincidence attenuation correction method	Anatomic imaging options	Cardiac imaging options	Fixed detector or variable angle	Special imaging positions (stretchers, wheelchairs, laying on floor)	Table motion (vertical/detachable)	Remote control functions	Unique features
Manual	No	n/a	n/a	Renal analysis, thyroid uptake, R/L shunt, esophageal kinetics, lung analysis, gastric emptying, full DICOM support	Cedars-Sinai QGS/OPS, Cedars-Sinai MOCO, full DICOM support	n/a	Images patients in any position (planar acquisitions).	n/a	n/a	Solid-state detector (no vacuum tubes), mobile camera, small footprint
Manual	No	n/a	n/a	Full DICOM support	Cedars-Sinai QGS/OPS, Cedars-Sinai MOCO, full DICOM support	Fixed, 90 degrees	SPECT images with supplied upright gantry	n/a	n/a	Solid-state dual detectors (no vacuum tubes), patient upright imaging, cardiocentric imaging, small footprint (7' x 8')
Manual	No	n/a	n/a	Full DICOM support	Cedars-Sinai QGS/OPS, Cedars-Sinai MOCO, full DICOM support	n/a	SPECT images with supplied upright gantry	n/a	n/a	Solid-state detector (no vacuum tubes), patient upright imaging, cardiocentric imaging, small footprint (7' x 9')
Manual	No	n/a	n/a	Renal analysis, thyroid uptake, R/L shunt, esophageal kinetics, lung analysis, gastric emptying, full DICOM support	Cedars-Sinai QGS/OPS, Cedars-Sinai MOCO, full DICOM support	n/a	Any position (planar acquisitions); SPECT images with supplied upright gantry	n/a	n/a	Solid-state detector (no vacuum tubes), patient upright imaging, cardiocentric imaging, mobile camera, small footprint (7' x 9')
n/a	n/a	n/a	n/a	n/a	n/a	Variable angle/position	Camera mounts to standard mammography gantry for imaging breasts w/ compression.	n/a	n/a	Adapts gamma camera to mammo gantry for standard mammo views. Camera dead space at edge is less than 7 mm, allowing imaging near chest wall. Energy resolution is 6 percent FWHM (typical) at 140 keV.
n/a	n/a	n/a	n/a	n/a	n/a	Variable angle/position	Articulating arm allows flexible positioning including imaging patients on operating room bed.	n/a	n/a	Camera and surgical gantry are portable for OR use. Camera fits and functions in a sterile bag. Camera's built-in LCD monitor allows surgeon to view images without moving from patient side.
Semi-automatic	Yes	4 kcps at 4 mCi	CT-based	CT-based	Rwave trigger, 3rd party SW, stress treadmill	Variable	None	Table moves vertically and detaches.	Yes	Hawkeye SPECT/CT with 1" Starbrite crystal for advanced applications offers realtime corrections for sensitivity, linearity, energy, isotope decay and center of rotation.
Semi-automatic	Yes	n/a	Gadolinium scanning line source	n/a	Rwave trigger, 3rd party SW, stress treadmill	Variable	Stretchers, wheelchairs	Table moves vertically and detaches.	Yes	Ultra flexible detector positioning
Semi-automatic	No	n/a	n/a	n/a	Rwave trigger, 3rd party SW, stress treadmill	Variable	Stretchers, wheelchairs	Table moves vertically and detaches.	Yes	Free-geometry gantry positioning
Semi-automatic	No	n/a	CT-based	CT-based	Rwave trigger, 3rd party SW, stress treadmill	Variable	Stretchers, wheelchairs	Table moves vertically and detaches.	Yes	Hawkeye functional anatomic mapping and free-geometry gantry positioning

Gamma Cameras | Continued

Company info	Product name	Clinical applications	Crystal dimensions	# of PMTs/ diameter or digital detectors	# of detector heads	Operator console features	Usable FOV (cm)	Max count rate (cps)	Specialized detection/count processing	Noise equivalent count rate	Intrinsic/extrinsic resolution
GE Medical Systems <i>continued</i>	Millennium MG	General purpose NM	14.5" x 20.5", 3/8" (thickness)	48 PMTs: 77 mm square (per detector)	Two	Receives digitized/corrected X/Y positional signals and full energy signal data; synchronizes patient ECG trigger data with multi-gated framing acquired data; displays "live" view of detected events in persistence mode; provides gantry/ table data status; performs detector tuning/calibration; uses a GUI for acquisition/display/QC; permits constant acquisition monitoring while operating other database or display features	14.5 x 20.5	325 kcps	Two rectangular detectors with digital Correlated Signal Enhancement (CSE) detector design (row and column PMT signal summation, yielding high signal fidelity and stability)	n/a	Intrinsic energy resolution UFOV FWHM 9.7 percent, intrinsic spatial resolution CFOV FWHM 3.9 mm, extrinsic spatial resolution with LEHR 7.9 mm
	Millennium MPR	WB-focused single head	14.5" x 20.5", 3/8" (thickness)	48 PMTs: 77 mm square	One	Same as above	14.5 x 20.5	325 kcps	One square detector with digital CSE design	n/a	Intrinsic energy resolution UFOV FWHM 9.7 percent, intrinsic spatial resolution CFOV FWHM 3.9 mm,
	Millennium MPS	Cardiac-focused single head	14.5" x 14.5", 3/8" (thickness)	36 PMTs: 77 mm square	One	Same as above	14.5 x 14.5	325 kcps	One square detector with digital CSE design	n/a	extrinsic spatial resolution with LEHR 7.9 mm Intrinsic energy resolution UFOV FWHM 9.7 percent, intrinsic spatial resolution CFOV FWHM
	Millennium MyoSIGHT	Dedicated cardiac	14.5" x 20.5", 3/8" (thickness)	48 PMTs: 77 mm square, per detector	Two	Same as above	14.5 x 20.5	325 kcps	Two rectangular detectors with digital CSE design	n/a	3.9 mm, extrinsic spatial resolution with LEHR 7.9 mm Intrinsic energy resolution UFOV FWHM 9.7 percent, intrinsic spatial
Philips Medical Systems Andover, MA http://www.medical.philips.com	Axis	General/cardiac SPECT, camera- PET, total body/ planar applications, suitable for low- to high-energy radionuclides	47 x 59 cm	49 PMTs: 7.6 cm, 10 PMTs: 5 cm; digital detector with 1 ADC per PMT and adaptive zone positioning	Two	PC-based LINUX acquisition and processing workstation	39.3 x 53.3	290 kcps	Adaptive zone nonparalyzable detector technology	n/a	resolution CFOV FWHM 3.9 mm, extrinsic spatial resolution with LEHR 7.9 mm Intrinsic 3.3 mm CFOV/UFOV, extrinsic 7 mm at 10 cm (LEHR)
	CardioMD	Cardiac statics, planar, Firstpass, gated bloodpool, cardiac/gated SPECT	37 x 21.4 cm, 8.5 mm (thickness)	24 PMTs: 7.6 cm square, digital detector with 5 ADC per detector	Two	PC-based acquisition applications	36 x 20.4	200 kcps	n/a	n/a	Intrinsic 3.7 mm
	Forte	General/cardiac SPECT, camera- PET, total body and planar applications; suitable for low- to high-energy radionuclides	52 x 64 cm	49 PMTs: 7.6 cm, 6 PMTs: 5 cm; digital detector with 1 ADC per PMT and local centroid positioning	Two	PC-based acquisition applications	38.1 x 50.8	250 kcps	Local centroiding uses clusters of PMTs around the detected event for positioning, providing a sweet spot that encompasses the entire FOV	6 kcps	CFOV/UFOV, extrinsic 7.7 mm at 10 cm (LEHR) Intrinsic 3.4 mm CFOV/UFOV, extrinsic 7.4 mm at 10 cm (LEHR)
	Irix	General/cardiac SPECT, camera- PET, total body and planar applications; suitable for low- to high-energy radionuclides	47 x 59 cm	49 PMTs: 7.6 cm, 10 PMTs: 5 cm; digital detector with 1 ADC per PMT and adaptive zone positioning	Three	PC-based LINUX acquisition and processing workstation	39.3 x 53.3	290 kcps	Adaptive zone nonparalyzable detector technology	n/a	Intrinsic 3.3 mm CFOV/UFOV, extrinsic 7 mm at 10 cm (LEHR)
	Meridian	General/cardiac SPECT, total body and planar applications; suitable for low- to high-energy radionuclides	53 x 38 cm, 9.5 mm (thickness)	48 PMTs: 7.6 cm square, digital detector	One	PC-based acquisition applications	52 x 37	320 kcps	n/a	n/a	Intrinsic 3.8 mm CFOV/UFOV, extrinsic
	SKYLIGHT	General/cardiac SPECT, total body and planar applications, suitable for low- to high-energy radionuclides	52 x 64 cm	49 PMTs: 7.6 cm, 6 PMTs: 5 cm; digital detector with 1 ADC per PMT and local centroid positioning	Two	Java-based acquisition applications with Smart Step automatic patient and camera setup capability	38.1 x 50.8	250 kcps	Local centroiding uses clusters of PMTs around the detected event for positioning providing a sweet spot that encompasses the entire FOV	n/a	7.6 mm at 10 cm (LEHR) Intrinsic 3.4 mm CFOV/UFOV, extrinsic

Energy range (keV)	Collimator storage changing mechanism	FDG collimator?	Coincidence option/output count rate (TRUES)	Coincidence attenuation correction method	Anatomic imaging options	Cardiac imaging options	Fixed detector or variable angle	Special imaging positions (stretchers, wheelchairs, laying on floor)	Table motion (vertical/detachable)	Remote control functions	Unique features
40-511	Semi-automatic	No	n/a	Gadolinium scanning line source	n/a	Rwave trigger, 3rd party SW, stress treadmill	Variable	None	Table moves vertically and detaches	Yes	CSE detectors
40-511	Semi-automatic	No	n/a	n/a	n/a	Rwave trigger, 3rd party SW, stress treadmill	Fixed SH	None	Table moves vertically and detaches	Yes	CSE detectors
40-511	Semi-automatic	No	n/a	n/a	n/a	Rwave trigger, 3rd party SW, stress treadmill	Fixed SH	None	Table moves vertically and detaches	Yes	CSE detectors
40-511	Semi-automatic	No	n/a	Gadolinium scanning line source	n/a	Rwave trigger, 3rd party SW, stress treadmill	n/a	None	Table moves vertically and detaches	Yes	CSE detectors, large FOV and attenuation correction
50-511	Cart-based exchange	Yes	n/a	Ba-133 singles-based	Software-based image registration/fusion	Beacon nonuniform attenuation correction with Ba-133	Variable	Stretchers, wheelchairs	Vertical 48.3-96.5 cm from floor, table is removable	Tethered remote for gantry/table motion	Variable tangential technology for contouring and close detector positioning to maximize image resolution
60-170	Manual, lightweight collimators at <14 kg each	n/a	n/a	n/a	Software-based image registration/fusion	n/a	Fixed	n/a	No vertical movement, table is not detachable	Remote for detector rotate, table left/right, detector radius in/out, P-scope erase, start, stop, pause, mark	Open gantry, compact design, lightweight system, dedicated for cardiac imaging, table cut-offs for closer imaging capabilities
56-920	Semi-automatic, integrated cart-free design	n/a	n/a	Cs-137 singles-based	Software-based image registration/fusion	Vantage Pro nonuniform attenuation correction, scatter correction, resolution recovery and automated QC tools	Variable	Stretchers, hospital beds, wheelchairs	Vertical 70-117 cm from floor, detachable and pivoting table	Remote for detector rotate, gantry rotate, table translation, table up/down, table left/right, detector radius in/out, P-scope erase, start, stop, pause, mark	No gantry feet to extend into the imaging area, detector rotate for imaging on any bed with a reach to any length of the body
50-511	Cart-based exchange	Yes	n/a	Ba-133 singles-based	Software-based image registration/fusion	Beacon nonuniform attenuation correction with Ba-133	Variable	Stretchers, wheelchairs	Vertical 48.3-96.5 cm from floor, removable table	Tethered remote for all gantry and table motions	Variable tangential technology for contouring and close detector positioning to maximize image resolution
60-400	Cart-based exchange	n/a	n/a	n/a	Software-based image registration/fusion	n/a	n/a	Stretchers, wheelchairs	No vertical movement, table is not detachable	Remote for detector rotate, gantry rotate, table left/right, detector radius in/out, P-scope erase, start, stop, pause, mark	Compact and lightweight design, table cutoffs for closer imaging, upright gurney or bed imaging capability
56-920	Fully robotic from automatic exchanger doors in <3 min	n/a	n/a	n/a	Software-based image registration/fusion	90-degree cardiac throughput	Variable	Stretchers, hospital beds, wheelchairs, on floor	Vertical 54-88 cm from floor, removable table	Wireless remote for detector rotate, gantry rotate, gantry translation, table up/down, detector radius in/out, detector up/down, detector 1 left/right, detector 2 left/right, P-scope erase, start, stop, pause, mark	Gantry-free design for positioning flexibility, concurrent imaging that can save the data flow from a single acquisition into up to 15 separate data sets with independent acquisition parameters, 16 energy windows with overlap capability, DualPlanar capability to separate the two detectors into two independent and simultaneous planar single head systems

Gamma Cameras | Continued



Company info	Product name	Clinical applications	Crystal dimensions	# of PMTs/ diameter or digital detectors	# of detector heads	Operator console features	Usable FOV (cm)	Max count rate (cps)	Specialized detection/count processing	Noise equivalent count rate	Intrinsic/extrinsic resolution
Siemens Medical Solutions USA Inc., Nuclear Medicine Group Hoffman Estates, IL http://www.siemensmedical.com	e.cam duet Signature Series	General NM: whole body, cardiac, general SPECT and coincidence-based PET	23" x 17.4", 1" (thickness)	53 PMTs: 3", 6 PMTs: 2"	Two	Workflow-based integrated acquisition, processing and viewing computer with automatic archiving and printing	21" x 15.25"	275 kcps	1 ADC per PMT	≥2.5 kcps	≤5.6 mm FWHM in CFOV intrinsic, 8.5 mm FWHM in CFOV (LEHR collimator) extrinsic
	e.cam Signature Dual Detector Fixed 180	General NM: whole body and general SPECT	23" x 17.4", 3/8" or 5/8" (thickness)	53 PMTs: 3", 6 PMTs: 2"	Two	Workflow-based integrated acquisition, processing and viewing computer with archiving and printing	21" x 15.25"	310 kcps	1 ADC per PMT	5/8" ≥1 kcps	≤3.8 mm FWHM in CFOV (3/8" crystal) intrinsic, 7.4 mm FWHM in CFOV (LEHR collimator) extrinsic
	e.cam Signature Dual Detector Variable Angle	General NM: whole body, cardiac and general SPECT	23" x 17.4", 3/8" or 5/8" (thickness)	53 PMTs: 3", 6 PMTs: 2"	Two	Workflow-based integrated acquisition, processing and viewing computer with automatic archiving and printing	21" x 15.25"	310 kcps	1 ADC per PMT	5/8": ≥1 kcps	≤3.8 mm FWHM in CFOV (3/8" crystal) intrinsic, 7.4 mm FWHM in CFOV (LEHR collimator) extrinsic
	e.cam Signature Single Detector	General NM: whole body, cardiac and general SPECT	23" x 17.4", 3/8" or 5/8" (thickness)	53 PMTs: 3", 6 PMTs: 2"	One	Workflow-based integrated acquisition, processing and viewing computer with archiving and printing	21" x 15.25"	310 kcps	1 ADC per PMT	n/a	≤3.8 mm FWHM in CFOV (3/8" crystal) intrinsic, 7.4 mm FWHM in CFOV (LEHR collimator) extrinsic
	e.cam Signature Dual Detector Multiangle Cardiac	Nuclear cardiology	23" x 17.4", 3/8" (thickness)	53 PMTs: 3", 6 PMTs: 2"	Two	Workflow-based integrated acquisition, processing and viewing computer with automatic archiving and printing	21" x 15.25"	310 kcps	1 ADC per PMT	n/a	≤3.8 mm FWHM in CFOV (3/8" crystal) intrinsic, 7.4 mm FWHM in CFOV (LEHR collimator) extrinsic
Toshiba America Medical Systems Tustin, CA http://www.medical.toshiba.com	Signature Series TCAM Cardio (Fixed 90-degree detector camera)	n/a	59.1 x 44.5 cm; 3/8" or 5/8" (thickness)	53 PMTs: 3", 6 PMTs: 2"; HD4 high-definition digital detectors	Two	n/a	53.3 x 38.7	310 kcps	n/a	≥1 kcps	Intrinsic spatial res: FWHM, CFOV ≤3.8 mm on 3/8", ≤4.5 mm on 5/8"; FWHM, UFOV ≤3.9 mm on 3/8", ≤4.6 mm on 5/8"; FWTM, CFOV ≤7.5 mm on 3/8", ≤8.9 mm on 5/8". Extrinsic spatial res. (LEHR): FWHM in CFOV (at 10 cm) 7.4 mm on 3/8", 7.8 mm on 5/8"; FWTM in CFOV (at 10 cm) 14.1 mm on 3/8", 14.9 mm on 5/8"
	Signature Series TCAM Single Detector Camera	n/a	59.1 x 44.5 cm; 3/8" or 5/8" (thickness)	53 PMTs: 3", 6 PMTs: 2"; HD4 high-definition digital detectors	One	n/a	53.3 x 38.7	310 kcps	n/a	≥1 kcps	Same as above
	Signature Series TCAM Variable Angle Camera	n/a	59.1 x 44.5 cm; 9.5 mm or 15.9 mm (thickness)	53 PMTs: 3", 6 PMTs: 2"; HD4 high-definition digital detectors	Two	n/a	53.3 x 38.7	310 kcps	n/a	≥1 kcps	Same as above

Energy range (keV)	Collimator storage changing mechanism	FDG collimator?	Coincidence option/output count rate (TRUES)	Coincidence attenuation correction method	Anatomic imaging options	Cardiac imaging options	Fixed detector or variable angle	Special imaging positions (stretchers, wheelchairs, laying on floor)	Table motion (vertical/detachable)	Remote control functions	Unique features
50-511	Semi-automatic dual collimator exchange	Yes (optional)	Yes (optional)	CT-based (optional)	Standard and optional automatic image fusion available	Cardiac quantification software and profile nonuniform cardiac attenuation correction available	Variable	Sitting, standing, stretchers, wheelchairs	Vertical from 19°-43.5°, table moves but doesn't detach.	Detector, gantry and bed motion control; start/stop acquisition	Automatic body contour for SPECT and whole body scans; user-defined workflow protocols, flexible displays and automatic printing and archiving; full DICOM functionality; multimodality platform; optional CT-based attenuation correction; e.media patient entertainment system, Flash 3-D advanced iterative reconstruction for SPECT; Watsyn advanced user's programming software; e.soft express cardiac software for remote processing and viewing
50-511	Semi-automatic dual collimator exchange	Yes (optional)	Yes (optional)	CT-based (optional)	Standard and optional automatic image fusion available	Cardiac quantification software available	Fixed 180-degrees	Sitting, standing, wheelchairs	Vertical from 19°-43.5°, table moves but doesn't detach.	Detector, gantry and bed motion control; start/stop acquisition	Same as above
50-511	Semi-automatic dual collimator exchange	Yes (optional)	Yes (optional)	CT-based (optional)	Standard and optional automatic image fusion available	Cardiac quantification software and profile nonuniform cardiac attenuation correction available	Variable	Sitting, standing, stretchers, wheelchairs	Vertical from 19°-43.5°, table moves but doesn't detach.	Detector, gantry and bed motion control; start/stop acquisition	Same as above
50-511	Semi-automatic dual collimator exchange	Yes (optional)	n/a	n/a	Standard and optional automatic image fusion available	Cardiac quantification software available	Caudal and cephalic detector tilt	Sitting, standing, stretchers, wheelchairs	Vertical from 19°-43.5°, table moves but doesn't detach.	Detector, gantry and bed motion control; start/stop acquisition	Same as above
50-588	Semi-automatic dual collimator exchange	Yes (optional)	n/a	n/a	n/a	Cardiac quantification software and profile nonuniform cardiac attenuation correction available	Multiangle, 76- and 90-degree cardiac SPECT configurations	Supine, prone with "feet-in" positions	Vertical from 19°-43.5°, table moves but doesn't detach.	Detector, gantry, and bed motion control, start/stop acquisition	Automatic body contour; user-defined workflow protocols, flexible displays and automatic printing and archiving; full DICOM functionality; optional Flash 3-D advanced iterative reconstruction; e.media patient entertainment system; standard automatic motion correction software; comprehensive cardiac processing and quantifications protocols; Watsyn advanced user's programming software; e.soft express cardiac software for remote processing and viewing
50-588	Semi-automatic	Optional	≤1.4 kcps (2D)	n/a	n/a	n/a	Fixed	n/a	Vertical from 48.3-110.5 cm; max. vertical speed 120 cm/min	Optional	Economical NM camera with full imaging functionality; operator ease of use, patient friendly environment; large, rectangular FOV detectors
50-588	Semi-automatic	Optional	≤1.4 kcps (2D)	n/a	n/a	n/a	n/a	n/a	Vertical from 48.3-110.5 cm, max. vertical speed 120 cm/min	Optional	Increased throughput for 90-degree SPECT studies; workflow-based operating systems improve data handling; advanced clinical quantification software packages available
50-588	Semi-automatic	Optional	≤1.4 kcps (2-D)	PROFILE nonuniform attenuation correction	n/a	n/a	Variable-angle	n/a	Vertical from 48.3-110.5 cm, max vertical speed 120 cm/min	Optional	Multipurpose nuclear medicine system; high throughput, increased utilization; operator ease of use, patient friendly environment

Medical-grade, flat-panel LCDs are the October Chart Smart focus. Contact Mark Palacio, associate industry editor, at mpalacio@merion.com for more information.