

We Image Your Needs.



Solo™

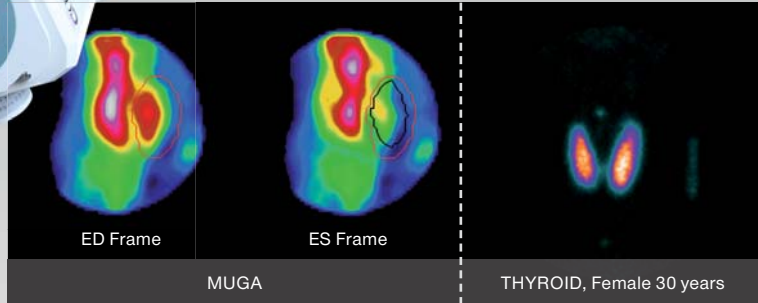
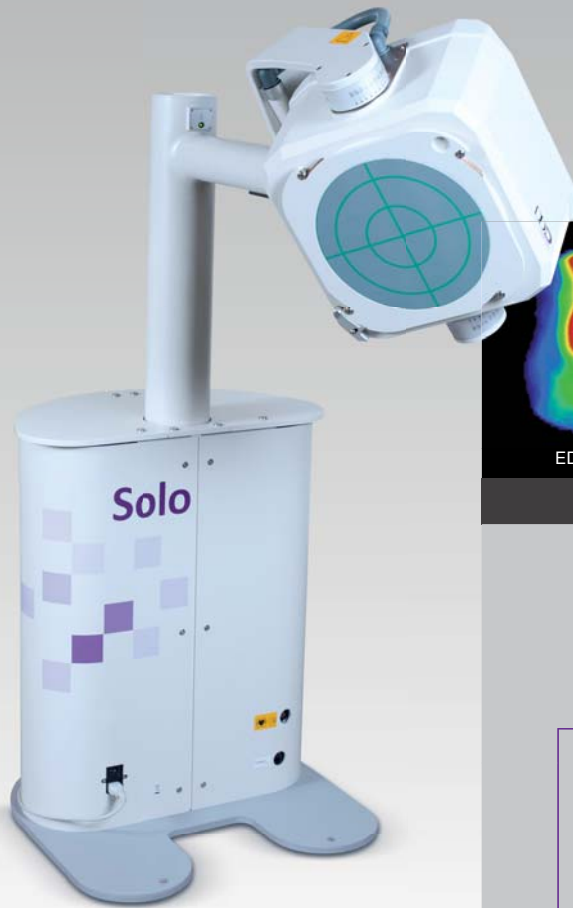


SFOV Gamma Camera

Single-detector system dedicated for planar imaging



Solo™



Danish design & quality

Simplicity in use, reliable and high performance

Small footprint

Base designed for easy and unobstructed patient access

Complete and self-contained

Workstation included

Integrates with hospital infrastructure

DICOM Modality Work-list

Solo™ is a versatile, cost-efficient and compact gamma camera system designed for use in hospital environments, outpatient clinics or private office settings. Its low-profile detector can be positioned to perform a large range of planar procedures such as imaging of the thyroid gland, parathyroid, multigated cardiac and sentinel node.

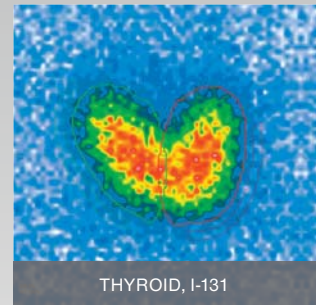
Solo™ is designed to take up minimal space and offers unobstructed access between the detector and patient. The supporting base plate is easily mounted on the floor for permanent and safe room installation.



The adjustable gantry and detector configuration accommodates imaging procedures with patients sitting or standing in front of the camera as well as patients lying on a hospital stretcher or gurney. Ease in detector positioning is achieved through a motorized vertical movement and manual rotational movements. When positioned, the detector is kept stable and in place for the imaging procedure by magnetic brakes.



Solo™ includes a laptop PC-based intuitive graphical user interface featuring both image acquisition and processing. Persistence scope and energy spectrum display are integral parts of the acquisition functionality. The laptop can be placed on any office desk near the camera or alternatively on a dedicated Solo PC cart conveniently for the user to confirm patient setup and to monitor the patient's position prior to and during acquisition. Functions including clearing of the persistence display and acquisition start are conveniently operable from the detector control panel.



Main Specifications

Solo™

Detector

Crystal thickness	9.5 mm
UFOV	Circular 210 mm diameter
Energy range	55–400 keV
Intrinsic spatial resolution (UFOV)	<3.7 mm (FWHM), <7.6 mm (FWTM)
Intrinsic spatial linearity (UFOV)	<0.2 mm (Differential), <0.5 mm (Absolute)
Intrinsic energy resolution (UFOV)	<9.4 %
Intrinsic flood field uniformity (UFOV)	< 1.5 % (Differential), <2.5 % (Integral)
Intrinsic count rate performance	>250 kcps
System spatial resolution	
LEGP (140 keV)	<9.4 mm FWHM @ 100 mm
LEHR (140 keV)	<7.8 mm FWHM @ 100 mm
System planar sensitivity	
LEGP (140 keV)	~ 270 cpm μ Ci
LEHR (140 keV)	~ 190 cpm μ Ci
Available collimators	LEGP, LEHR, MEGP, HEGP, Pinhole with exchangeable inserts, and diverging LEGP.

Image acquisition

Supported imaging procedures	Static, Dynamic, and Gated Planar.
Pixel size	4 mm square (64 matrix), 1–5 zoom
Matrix size	64 × 64, 128 × 128, 256 × 256, 512 × 512 pixels
User-definable acquisition protocols	Pre-defined acquisitions with all parameters set: Select acquisition, position camera (manually), press Start. Manual definition of acquisition protocols.
Termination	Time, counts or accepted no. of beats.
DICOM	DICOM 3.0. Manual “push” and automatic “push” protocol. Configurable (Password protected) DICOM Modality Work-list as an option.

Motions

Detector vertical	Motorized with fast and slow speed. Range from ~820–1360 mm above floor.
Detector tilt	– 15 to +90 degrees manual movement with magnetic lock.
Detector rotate	– 90 to + 180 degrees manual movement with magnetic lock.
Detector reach	64 cm from gantry edge to middle of detector.

[DATA SUBJECT TO CHANGE]

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**Solo™ is designed,
developed and manufactured
by DDD-Diagnostic A/S in Denmark.**

DDD is a well known OEM manufacturer of gamma camera systems. Early 2012 the first products under own brand were also released to the market.

DDD was founded in 1987 and has been involved in design and development of some of the most successful gamma camera systems in cooperation with major international vendors of medical diagnostic imaging equipment.

DDD-Diagnostic A/S

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