Diagnostic

We Image Your Needs.

NephroCam™ **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.

Diagnostic

Nephro Cam™

DDD-Diagnostic A/S

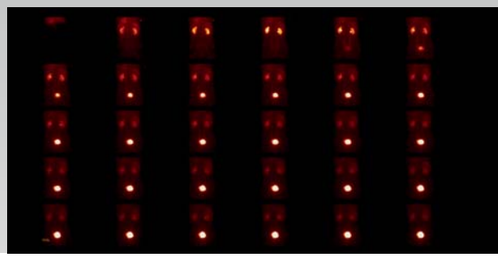
Kærvej 12
DK-2970 Hørsholm
Denmark

www.ddd-diagnostic.dk

1BRO2820-D06

Gamma camera system
for Radioisotope Renography

Nephro Cam™



The most cost-effective solution available on the market today...

- Quick and seamless imaging of the kidneys.
- Optimized for 99 mTc-DTPA and 99 mTc-labelled MAG3 radiopharmaceuticals.
- Clear indication of detector size and position.
- Improved workflow with a minimum of operator interactions.
- Excellent performance and reliability.
- Room size requirement as small as 2.5×4.0 meters.
- Patient-friendly and comfortable.
- Also ideal for pediatrics, i.e. no overwhelming and claustroforbic gantry.
- Connects to existing nuclear medicine workstations.
- Integrates with hospital infrastructure – DICOM Modality Work-list.

NephroCam™ is optimized for seamless radioisotope renography.
The camera is designed as a workhorse camera in a busy nuclear medicine department.
Thus **Nephro**Cam™ workflow requires only a minimum of operator interactions.

Handgrip and brakes for safe and easy detector positioning.

The large field of view detector will image almost all patients without having to be positioned. In cases where detector positioning is needed, a manual solution is provided on the detector to slide it to the correct position.

NephroCam™ comes with DDD's new .NET-based ClearSight™ acquisition software packages.
Like **Nephro**Cam™, ClearSight™ has been designed with simplicity and user friendliness in mind.

Main Specifications

NephroCam™
Type No. 9KID2275

Detector	
Crystal thickness	9.5 mm
UFOV	51 × 36 cm (52 × 37 cm imaged FOV)
Energy range	55–400 keV
Intrinsic spatial resolution (UFOV)	< 3.9 mm (FWHM), < 7.8 mm (FWTM)
Intrinsic spatial linearity (UFOV)	< 0.2 mm (Differential), <0.5 mm (Absolute)
Intrinsic energy resolution (UFOV)	< 9.7 %
Intrinsic flood field uniformity (UFOV)	< 2.5 % (Differential), < 3.5 % (Integral)
Intrinsic count rate performance wo. scatter	300 kcps
System spatial resolution wo. scatter LEGP (140 keV) LEHR (140 keV) HEGP (364 keV)	 < 9.1 mm FWHM @ 100 mm < 7.9 mm FWHM @ 100 mm < 16.5 mm FWHM @ 100 mm
System planar sensitivity LEGP (140 keV) LEHR (140 keV) HEGP (364 keV)	 ~ 250 cpm/µCi +/– 7 % ~ 170 cpm/µCi +/– 7 % ~ 183 cpm/µCi +/– 7 %
Collimators	LEGP, LEHR or HEGP
Image acquisition	
Supported imaging procedures	Dynamic and Static.
Pixel size	8.9 mm square (64 matrix). 1–5 zoom
Matrix size	64 × 64, 128 × 128, 256 × 256, 512 × 512 pixels
User-definable acquisition protocols	Factory pre-defined with all parameters set. Manual definition of user-specific protocols.
Termination Dynamic Static	 Up to 3 phases. Up to 2 000 frames 0.02–999 s/frame Time and/or counts
DICOM	DICOM 3.0. Manual "push" and automatic "push" protocol to user-provided nuclear medicine workstation. DICOM Modality Work-list as an option
General	
Dimensions	(W) 60 cm × (L) 220 cm × (H) 66–75 cm configurable upon installation
Weight	600 kg
Power requirements	230 VAC 50/60 Hz
Total heat dissipation	2 000 BTU/h

[DATA SUBJECT TO CHANGE]

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