



Xcelsitas AG

Technical Specification

Gamma Camera BDH-L

Item number: 1-021904-0319-001

1-021904-0319-002

1. PRODUCT IMAGES

GAMMA CAMERA BDH-L



Item Number: 1-021904-0319-001

GAMMA CAMERA BDH-L WITH PATIENT TABLE



Item Number: 1-021904-0319-002

2. PARTS

Main Frame: includes gantry and one detector (includes the cover, crystal, photomultiplier array, and the front-end electronics circuit).

Data Acquisition System: includes computer, monitor data acquisition, imaging processing and correction software.

Collimator and its Carrier: includes low energy high resolution parallel-hole collimator. Low energy pin-hole collimator can be provided on request.

Cabinet: power supply for the whole system.

3. SPECIFICATION OF DETECTOR

FOV: 340mm×300mm

Energy Range: 50~170 keV

Intrinsic Spatial Resolution: within UFOV, FWHM_{ui}≤3.6mm; FWTM_{ui}≤7.0mm

Intrinsic Non-uniformity: within UFOV, differential non-uniformity is within±2.5%.

Intrinsic Spatial Non-linearity: within UFOV, differential linearity≤1.5 mm

Energy Resolution: ≤9.9% (for 99mTc)

Intrinsic Max. Observation Rate: ≥120kcps

4. SPECIFICATION OF MECHANIC PARTS

Shifting Range of Detector: no less than 280mm

Rotating Range of Detector Support: -40°~+180°

Rotating Range of Detector: -40°~+180°

Max. Load of Patient Bed: 135kg (for 1-021904-0319-002 only)

5. ACQUISITION WORKSTATION

Operation System: Window2000/XP

CPU: ≥2.8GHz

Memory: 2GB

Hard Disc: ≥320GB

Disc: read and write CRW or DVD writer

Resolution of SVGA Video Card: ≥1024×768

Image Monitor: ≥19" color screen

6. DATA ACQUISITION AND CLINICAL PROCESSING SYSTEM SOFTWARE

Data Acquisition Function: including static acquisition and dynamic acquisition.

Display and Analyzing Function of Universal Images: zooming, lessening, copy; image filtering; cine displaying; construction, display and statistics of interesting area; palette choosing, adjustment of window with and level.

Calculation of Curve and Image: time-activity curve, mathematical arithmetic of image and distance measurement.

Reporting System: management system of user information and image printing.

Quality Control Function: with functions like pixel size adjustment, automatic gain correction, energy correction, linear correction and uniformity correction, etc. and daily quality control.

7. LEGAL NOTICE

The specifications of this system may change without any prior notification.

Some products or features may not be available in some countries.

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