

## PHILIPS PET ALLEGRO

El sistema Allegro® es un scanner Single Pass® (Whole Body) diseñado para proveer imágenes volumétricas reales.



### TECHNICAL SPECIFICATIONS

|                                              |                                                                                                                                     |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>COMPUTER SYSTEM</b>                       |                                                                                                                                     |
| Acquisition cpu                              | Sun based                                                                                                                           |
| Storage media/size                           | More than 1 GB storage 2 GB RAM                                                                                                     |
| Image processor                              | Sun based                                                                                                                           |
| Storage media/size                           | More than 1 GB storage 73 GB HD                                                                                                     |
| DISPLAY                                      | 19" CRT or 18" LCD                                                                                                                  |
| Printing options                             | Various models                                                                                                                      |
| Acquisition possibilities                    | SinglePass whole body, static, dynamic, gated                                                                                       |
| OPTIONAL ATTACHMENTS                         | Cardiac gate, CD-R, DICOM network package, additional viewing stations and OD drives, feet extension for patient table, comfort kit |
| <b>DETECTOR CHARACTERISTICS</b>              |                                                                                                                                     |
| Ring diameter, cm                            | 90                                                                                                                                  |
| # of crystals                                | 17864                                                                                                                               |
| Crystal composition                          | GSO                                                                                                                                 |
| Crystal size, mm                             | 4 x 6 x 20                                                                                                                          |
| Axial fov, mm                                | 180                                                                                                                                 |
| Crystals/pmt                                 | 42.5                                                                                                                                |
| <b>WORK AREA CONDITIONS</b>                  |                                                                                                                                     |
| Working temp. c (f)                          | 18-25 (65-77)                                                                                                                       |
| Relative humidity %                          | 30-60                                                                                                                               |
| System cooling btu/hr                        | 7000                                                                                                                                |
| POWER NEEDED                                 | 200-240 VAC, 50/60 Hz, 20 A                                                                                                         |
| <b>IMAGE RECONSTRUCTION</b>                  |                                                                                                                                     |
| Coincidence window, nsec                     | 7.5                                                                                                                                 |
| Reconstruction time, sec                     | Variable, depending on reconstruction algorithm                                                                                     |
| SOFTWARE AVAILABLE                           | PETView, DICOM 3.0, SYNTEGRA image fusion                                                                                           |
| <b>PATIENT TABLE</b>                         |                                                                                                                                     |
| Vertical motion, cm                          | 88-108, adjustable                                                                                                                  |
| Horizontal motion, cm                        | 195                                                                                                                                 |
| Head support                                 | Tilt table                                                                                                                          |
| Arm support                                  | Adjustable                                                                                                                          |
| Max. patient weight capacity, kg (lb)        | 182 (400)                                                                                                                           |
| <b>GANTRY</b>                                |                                                                                                                                     |
| H x W x D, cm (in)                           | 177 x 176 x 83 (69.7 x 69.3 x 32.7)                                                                                                 |
| WEIGHT, kg (lb) (DISPLAY)                    | 1,360 (3,000)                                                                                                                       |
| Patient port diameter, cm (GANTRY)           | 56.5                                                                                                                                |
| <b>PATIENT POSITIONING (X-RAY GENERATOR)</b> |                                                                                                                                     |
|                                              | Laser alignment system                                                                                                              |
| Transmission source (GANTRY)                 | Cs-137, 20 mCi                                                                                                                      |
| Other characteristics (Software)             | Automatic loading                                                                                                                   |
| <b>INSTALLATION REQUIREMENTS</b>             |                                                                                                                                     |
| Minimum room size                            | 3.3m x 5.6 m (11 ft x 18 ft)                                                                                                        |
| <b>DETECTOR CAPABILITIES</b>                 |                                                                                                                                     |
| System sensitivity (DETECTOR PERFORMANCE)    | 920,000 (T+S) cps/uCi/cc                                                                                                            |
| Scatter fraction (DETECTOR CAPABILITIES)     | 26% (NU-2 1994)                                                                                                                     |
| Maximum count rate, cps @50% dead time       | 160,000 1                                                                                                                           |
| Resolution, mm                               |                                                                                                                                     |
| Transaxial fwhm                              |                                                                                                                                     |
| 1 cm rad, statny (Transaxial fwhm)           | 4.9                                                                                                                                 |
| 10 cm rad, statny                            | 5.5                                                                                                                                 |
| Axial fwhm                                   |                                                                                                                                     |
| 1 cm radius (Axial fwhm)                     | 5                                                                                                                                   |
| 10 cm radius                                 | 6.1                                                                                                                                 |
| Energy resolution                            | 0.17%                                                                                                                               |
| OTHER ATTRIBUTES (Interference compensation) | <30 sec transmission scans; transmission source half-life of 30 yr; single-pass and 2-pass scanning.                                |
| FDA CLEARANCE (Interference compensation)    | Yes                                                                                                                                 |
| CE MARK (MDD) (Interference compensation)    | Yes                                                                                                                                 |