



R.100.73.38 CT 64/128 SLICE

Detector

64 slice Detector

Detector size of 0,65 mm or thinner

Slice collimation at >0,65 mm: 64, 40, 32, 20 or 16 rows

Detector efficiency above 97%

Noise is below 0,5%

Generator – tube

Tube voltage: 80, 100, 120, 140 kV

Tube current: 20 to 600 mA (at 120 kVp) in 1 mA increments

Up to 100 sec of uninterrupted scanning

Gantry

Tilt of +/- 30 degrees

Gantry opening above 700 mm

Gantry with alignment laser, <1 mm accuracy

Bidirectional communication system included

Scanning

For routine examinations, brain / chest / abdomen and pelvis, CT angiography and virtual colonoscopy

Rotation times of: 0,5, 0,75, 1,0, 1,5 and 2,0 s, for full 360° scans

Scan angles: 240, 360 and 420 degrees

Scan rate of 128 slices/s

Slice thickness: [0,5 – 10] mm axial mode, [0,5 – 5] mm spiral mode

Axial scan speed between [5 – 170] mm

Possibility to store +200 scan profiles

Bolus tracking functionality included

Option to start scan automatically with bolus injection

Host computer, post processing and viewing

Processor: Quad core Intel Xeon E5 processor, above 3 GHz speed



Memory: 16 Gb internal memory or better

Hard disk: SSD-SATA-6, or SAS HDD, with above 250 Gb space

DVD drive capable of reading writing and rewriting at 16x speed

Connectivity: 6 USB 2.0 ports, 4 USB 3.0 ports, 2 Ethernet 1Gb/s ports, 2 DVI-D ports

Monitor 1: 19 inches (or better), 1.024 x 1.980 pixels, 8-bit IPS color display, anti-glare, DVI- D connectivity

Monitor 2: 19 inches (or better), 3-megapixel, 10 bit grey scale IPS display, anti-glare, DVI-D connectivity,

Video-card: capable of delivering output to two screens

Operating system: MS Windows 10 Pro and MS Office 2010

Reconstruction computer

Capable of delivering real-time reconstruction with a 256 x 256 matrix

Image reconstruction of 1.024 x 1.024 matrix below 25 s in all usage scenarios

Reconstruction matrixes of 256 x 256, 512 x 512, 768 x 768, 1.024 x 1.024

Filters package is included, including cardiac filters

Patient bed

Supports patients up to 200 kg

Supports patients up to 2,1 m in length

Full body scan possible at one go (1,75 m)

Vertical motion between 600 mm and gantry entrance height

Made of radio-permeable material

Software for viewing

Image viewing software compatible with latest DICOM 3.0 standards

Capable of selected automated gray scale adjustments

Zoom and pan possibility

Annotations changes

Reporting options

Measurement options



R.108.39.75 FILM PRINTER MULTI FORMAT FOR RADIOLOGY DEPARTMENT

Standard Radiology and Mammography x-ray films with laser technology

Converts from DICOM format to Windows format

Multiple paper sizes supported: US Letter, Tabloid, 35 x 43 cm, 35 x 28 cm, 30 x 24 cm, A4, A3...

Customizable page headers and footers

Configuration of various rendering settings

Ability to connect to multiple printers

Scale 1 printing

Printing statistics for per-profile print counts

Printed images are automatically sent to PACS

DICOM 3.0 compatible

Gray scale Standard Display Function (GSDF)

Internal DICOM Print Server

300 > dpi (dots per inch)

Network Card with transfer speed capacity of > 1 Gbits/sec

Support for JPEG, PNG, TIFF, BMP export of images

R.129.49.81 MRI - 1.5T - SUPER CONDUCTIVE - HELIUM COOLED - WITH R/F CAGE AND SET OF COILS

Complete Magnetic Resonance Imaging System with the following specifications:

MRI magnet

Field strength 1,5 Tesla

Main magnetic field homogeneity approx 0,20 ppm at 400mm Defined Spherical Volume, approx 0,50 at 500 mm Defined Spherical Volume

Field of view of minimal 500 mm isotropic

Min field of view (mm) : 5mm

Helium refill > 3 years

Min installed area in m2 : < 30

No of independent RF receiver channels : minimum 16



Maximum amplitude above 30 mT/mv
Slew rate mT·m⁻¹·ms⁻¹ X, Y, Z : > 50
Min TR ms 3D gradient echo: min 0.85
Patient aperture at narrowest in cm : 60 cm
Total length cm : < 200 cm
Couch max/min height cm : 100 / 40
Body mass limit in kg : > 150
Coils
Head coil / neurovascular, 16 channels
Body coil, 16 channels
Spine coil, 16 channels
Knee / foot/ ankle coil, 4 channels
Shoulder coil, 4 channels
95% percent guarantee uptime
Remote diagnostics possibility

R.168.18.34 GENERAL ULTRASOUND UNIT 3 PROBE WITH PRINTER

Display monitor
17" color high-resolution LCD
Articulating monitor arm
Console design
Full size keyboard
8 TGC pods
Integrated speakers
Probe holders
Gel holder
Front and rear handles
Swivel-adjustable, Height-adjustable console cart
3 probe connectors



Storage

Built-in storage (HDD) (500 GB)

USB ports

DVD-RW driver

Applications

Abdominal

Breast

Cardiac

Obstetrical/Gynecological

Pediatric and Neonatal

Small Parts and Superficial

Urological

Vascular

Operating modes

B-Mode (2D)

M-Mode

Color Flow Mode (CFM)

Power Doppler Imaging (PDI)

Pulse Wave Doppler (PWD)

Duplex mode

Triplex mode

Probes

Phased Array

Linear Array

Convex Array (2D)

System features

Real-time automatic Doppler calculations

Cardiac Calculations

OB Calculations /Gynecological Calculations



Vascular Calculations

Urological Calculations

Renal Calculations

220V – 50/60Hz

R.168.33.63 APRON - LEAD - 500MM LENGTH

0.5 mmPb

Approximate Dimensions 1000mm x 500mm

R.168.69.87 ULTRASOUND UNIT - CARDIAC - WITH ASSESSMENT SOFTWARE - 3 PROBE

Console design

Swivel-adjustable, Height-adjustable cart (trolley)

Front and rear handles

4 active probe ports

Integrated speakers

Probe holders

Gel holder

Full size keyboard

Display monitor

17" color high-resolution (min)

Articulating monitor arm

Storage

Built-in storage (HDD)

USB ports

DVD-RW driver

Applications

Cardiac

Vascular

Pediatric and Neonatal



System features

Cardiac package

4D package

Real-time automatic Doppler calculations

Vascular Calculations

Probes

Phased Array

Linear Array

Convex Array (2D)

Convex volume (3D/4D)

Printer

Digital B/W thermal printer

Electrical power

Voltage 100-240 V

Frequency 50/60 Hz

R.169.21.40 ULTRASOUND UNIT - OB/GYN 3 PROBE WITH ENDOCAVITY AND BIOPSY SET

Display monitor

17" color high-resolution (min)

Articulating monitor arm

Console design

Full size keyboard

8 TGC pods

Integrated speakers

Probe holders

Gel holder

Front and rear handles

Swivel-adjustable, Height-adjustable console cart

3 probe connectors



Storage

Built-in storage (HDD) (500 GB)

USB ports

DVD-RW driver

Applications

Abdominal

Breast

Obstetrical/Gynecological

Operating modes

B-Mode (2D)

M-Mode

Color Flow Mode (CFM)

Power Doppler Imaging (PDI)

Pulse Wave Doppler (PWD)

Probes

Endo-Cavity – Biopsy Attachment

Convex Array (2D) – Biopsy Attachment

System features

Real-time automatic Doppler calculations

OB Calculations /Gynecological Calculations

220V – 50/60Hz

R.169.72.93 ULTRASOUND UNIT - OB/GYN 3/4D VOLUMETRIC WITH DVD RECORDER

Console design

Swivel-adjustable, Height-adjustable cart (trolley)

Front and rear handles

4 active probe ports

Integrated speakers

Probe holders



Gel holder

Full size keyboard

8 TGC pods

Display monitor

color high-resolution LCD

Articulating monitor arm

Storage

Built-in storage (HDD)

USB ports

DVD-RW Drive

Applications

Abdominal

Breast

Obstetrical/Gynecological

Small Parts and Superficial

Endo-Cavitary

Probes

Phased Array

Linear Array

Convex Array (2D)

Convex Volumetric (3D/4D)

Endo-Vaginal probe

Printer

Digital B/W thermal printer

Color Printer (A4/A5)

Electrical power

Voltage 100-240 V

Frequency 50/60 Hz



R.170.24.46 ULTRASOUND UNIT - PORTABLE - SINGLE PROBE

Portable system, with docking station

Multidisciplinary ultrasound unit.

The system supports any type of probes: convex, Micro-convex, linear, phased array, volumetric, Doppler and special probes

Built-in CD/DVD burner

Modes: B-mode/M-Mode/CFM/Doppler/Power Doppler (mono and bidirectional)

patient data archive with images, videoclips, reports and medical records

Multistep focusing, Multi zoom rate and depth shift

Able to work at least 120 minutes independent of AC

Convex probe 2.5MHz - 5.0MHz

Easy Image processing

Video Printer B/W

220V – 50/60Hz – Battery Internal

R.190.30.57 DIGITAL MAMMOGRAPHY UNIT WITH SHIELDED CONSOLE

Digital mammography system for general screening, diagnostics and interventional applications.

Large field digital flat panel detector.

Ergonomic examination gantry designed for mammography applications with motorized movements.

Integrated digital acquisition system with user console and flat panel monitor.

Single/Dual track mammography X-ray tube with additional beam filters and automatic collimator.

High frequency generator 40 Kw.

Exposure control system and selectable dose modes.

Radiation shield and a mammography image receptor grid.

Motorized and manual compression device

Magnification device. DICOM compatibility (send, store, print, retrieve)

Digital stereotactic breast biopsy. Positioning at any angle +/-90 deg should be available.



R.198.89.11 DIGITAL X-RAY UNIT WITH FLOATING HEIGHT ADJUSTABLE TABLE

Bucky table with floating table top with handle

Potter Bucky for cassettes from 13 x 18 cm up to 36 x 43 cm

Oscillating grid

Electromagnetic brakes

Longitudinal and lateral movement of table top

Column tubestand on rails

Longitudinal movement of tube: 198 cm

Vertical movement of X-Ray tube: 143 cm

Transversal movement of X-Ray tube: 18 cm

Tube rotation around vertical axis: $\pm 180^\circ$

Tube rotation around horizontal axis: $\pm 110^\circ$

Electromagnetic brakes

Manual collimator with light beam centering

Microprocessor controlled High Frequency Generator

Power: 50 kW

Frequency: up to 400 kHz

kV Range : 40 – 150 kV

mA Range : 10 - 630 mA

mAs Range : 0,1 – 630 mAs

Exposure time: 1 ms – 6,3 sec.

Protections: (thermal overcharge, constant overcharges, line security, high voltage priming, filament cut)

Digital display

Auto-diagnostic system

Anatomical Programs (APR)

X-Ray tube

Rotating anode X-Ray tube 150Kv

Focus 0,6 – 1,2 mm



Vertical Bucky Stand

Counter-balanced vertical movement of the potter bucky with emergency mechanical brake

Potter bucky for cassettes from 13 x 18 to 36 x 43 cm with cassette insertion on both sides

Auto-centering cassette tray

Vertical movement: 136 cm

Oscillating grid

Flat Panel Detector

X-ray sensing surface (detector size): 35 x 43 cm (13.5" x 17")

High resolution image display

Wireless connection

Back up cable

Acquisition and Image processing workstation

Predefined generator parameters are used based on body part

Advanced image post-processing based on body part

Generator / DR stands and digital imaging system are piloted by a single console

DICOM 3.0 compatible

R.200.95.22 X-RAY MACHINE - MOBILE - ADULT

30 kW output power

Rotating anode X-Ray tube dual focus

35 x 43 cm portable CsI Flat Panel Detector

19" Touch Screen Monitor for radiographic controls and image viewing

Intuitive software for high resolution acquisition and post-processing

Full DICOM connectivity and CD/DVD recording

Power requirement : 220 V, 50/60 HZ



R.55.03.06 C-ARM 12" HF FLUOROSCOPY - TRI FOCUS - 8KW

Stand :

Vertical movement of "C" (motorised) : 50 cm

Horizontal movement of "C": 21cm

Orbital rotation : 126,5°

Rotation of "C": +/-270°

Wig-Wag : +/- 12,5°

Generator :

Microprocessor controlled high frequency generator : 8 kW

Double focus tube with rotating anode : Focus : 0,3 – 0,6 mm

Continuous fluoroscopy : 40 to 120 kV - 0,5 to 8 mA

Snapshot mode: 30 mA ; Radiography: 40 to 120 kV - up to 50 mA

mAs range : 1 – 125 mAs ;

Digital display

5 anatomical programmes (3 in radiography, 2 in fluoroscopy)

Automatic or manual mA/kV regulation

Pulsed fluoroscopy/Continuous fluoroscopy

Motorised diaphragm with iris and parallel shutters

High resolution image intensifier 9" (23 cm) ; CCD TV camera 1024*1024

2 color monitors LCD 19" (high resolution: 1280x1024) with automatic brightness regulation

Edge enhancement

Left/right inversion

Digital rotation (360°)

Digital Imaging System: Possibility of image transfer with DICOM 3 and CD-R/DVD archiving in DICOM DIR format.

Power Requirement : 220 V, 50/60 HZ



R.65.16.18 HANGER - LEAD APRON - DOUBLE

Wall mounted lead apron rack

Made from stainless steel

Minimum capacity of 5 aprons

Shoulder shaped arms

Possibility to swing arms to side

Including shelf to hold accessories like gloves

R.88.76.43 REPORTING STATION PACS RADIOLOGY

Software features

Provided software features: vascular examination, cardiology examination, digestive system examinations, 3D reconstruction of organs and veins

Workstation, hardware

Quad core processor Xeon E5 processor with speed above > 2,5 GHz

Ram memory 16 GB or better

Professional GPU (Quadro or FirePro) capable to output to the two monitors

Pre-installed Windows 7 Pro

Microsoft office 2007 or later included

Minimum no. of connections: 6 USB 2.0 ports, 4 USB 3.0 ports, 2 Ethernet 1Gb/s ports, 2 DVI-D ports

Ergonomic mouse and keyboard

DVD writer included

Workstation Monitors (3 Units):

21 inch

3 megapixel

10 bit grey scale monitor

With DVI-D port

Includes auto calibration hardware

Including monitor stand that can rotate, elevate and tilt the monitor



Software for viewing:

Image viewing software compatible with latest DICOM standards

Capable of selected automated gray scale adjustments

Zoom and pan possibility

Annotations changes

Reporting options

Measurement options

CBCT.001

CEPHALO SCAN CBCT

The system should include an automatic exposure control and capable of imaging adult panoramic, pediatric panoramic, lateral double TMJ, PA double TMJ, maxillary, sinus and cephalometry.

The supplier should provide PC Hardware capable of supporting the proper system functionality.

System to be 3D ready (upgradable) as a future option (as per Addendum no1)

Generator

High frequency, constant potential Converter type.

Micro-Processor controlled.

Automatic mains voltage compensation.

Up to 80 KV. Up to 15 MA.

Automatic Exposure Control AEC.

Automatic KV compensation for spine density correction.

Pre-programmed and manual technique.

Remote-controlled hand switch for exposure release.

X-Ray Tube

Single tank type.

Single focus $\leq 0.5\text{mm}$.

Fixed anode.

Stand

Suitable for standing and sitting patients.



Preferably open view with patient facing radiographer.

Vertical movement of the imaging system from 95 cm to 180 cm. fully counterbalanced.

Motorized positioning device with laser indication for optimum positioning.

Minimum 8 combinations of adjustable Jaw shape and size.

Minimum 25 exposure programs , each program should be capable of different combinations.

Vertical exposure segmenting.

Upper and lower Jaw segmenting.

Magnification correction for panoramic.

Linear Tomography for implant planning.

Computer controlled multi-projection modes:

Standard projection.

Children projection reduced exposed area from top and side.

Orthogonality projection.

TMJ projection.

Tele-Radiography

Cephalostat with Digital Receptor.

S.I.D 150 cm.

Exposure time from 0.16 sec to 2.5 sec.

Digital Detector Panoramic/Cephalometry

Pixel Size: 35 μm .

Image Pixel Size selectable: 65/90 and 130 μm .

Resolution: 4.5lp/mm.

Image Field: 14x28 cm, 18x24 cm and 24x30 cm.

Two fixed digital detector as per addendum No.3

The dynamic range should be compatible with your detector system. The higher the better. Bidder to specify

Software Package

Post-processing SW and HW to support optimal imaging workflow and usability.



Automatic acquisition, archiving, storing of exposure values and patient positioning coordinates

Zoom in and out.

Density profiles and histograms Measurements.

Rotate the image.

Image Rotation.

Adjustments of the image grayscale for optimal image contrast and darkness.

Filters for image sharpening and noise reduction.

Angle, length, and level measurements.

Tomography and implant planning.

Image Subtraction tool.

To provide integration with intraoral X-ray to further support smooth imaging workflow.

Automated back-up to secure and prevent all loss of clinical information.

To provide TWAIN Driver allowing for direct digital X-ray image acquisition into a third-party imaging software.

Communication and Archiving

DICOM 3 full functionality

D.131.54.59 DENTAL X-RAY UNIT WALL MOUNTED

Wall Mounted unit, on articulated arm ;

270 deg swivel Vert. x 360 deg Horiz. with angle indicator,

focal spot, 70Kv at 8mA, 0,8mm- Timer 0,04-2 sec

handset with 3m long cable;

fitted with a visual and audible warning for xray On;

to be delivered with pointed cone .