visitor *T30 C-DR*

Digital mobile X-ray unit with 32 kW monobloc and portable Flat Panel detector

Product Data

X-ray generator

Technology	Microprocessor managed control panel
Frequency	High frequency generator 40 kHz
Ripple	< 2%
Power	32 kW max. power
Monobloc thermal capacity	500 kJ (667 kHU)
Operating modes	2 points technique (kV / mAs settings)
kV range	40 ÷ 125 kV (1 kV steps)
mA range	50 – 400 mA according to kV selection
mAs range	0.1 – 220 mAs (12.5% steps)
Exposure time range	0.001 – 2.2 s (according to mAs selection)
Exposure controls	- Double switch X-ray handswitch with extensible cable. - Remote control (optional)
Anatomical technique (APR)	36 programs
User's interface	Keyboard with alphanumeric LCD display for all operative parameters and messages of possible anomalous conditions
Service program	Dedicated application for technical assistance: - unit parameters configuration - warnings management - X-ray tube seasoning and calibration - Flat Panel detector calibration - DAP calibration
Safeties	Breaker circuit for mains overloads, filament current, monobloc temperature, overload, max kV or HV fault, check of the stored data, microcontroller auto test

X-ray tube

Type	Rotating anode, 3000 rpm
Focal spots	0.8 / 1.3 mm
Nominal focus power	16 kW small focus; 32 kW large focus
Anodic diameter	64 mm
Anodic angle	15°
Anode material	RTM
Max. continuous anode dissipation	300 W
Anode thermal capacity	80 kJ (107 kHU)

Collimator

Collimation	Manual collimator with internal light source, multilayer, square field
Light source	High brightness power led cluster
Timer	30 s light timer
SID measurement	Extractable meter
Collimator rotation	± 120°
Additional filtration by manual selection	1 mm Al + 0.1 mm Cu; 1 mm Al + 0.2 mm Cu; 2 mm Al

Digital system – panel PC

Type	19" LCD TFT colour touch screen monitor with anti-glare surface
Resolution	1280 x 1024 pixel
Brightness	350 cd/m^2
Contrast	1000:1
Processor	Intel Core i7 1,5 GHz
RAM	4 GB
Hard disk	320 GB, >15000 storable images
Acquisition	16 bit
Operating system	Windows 7 Professional
Interface	- Ethernet TCP/IP: standard DICOM 3 - Wireless network: 802.11 n - CD/DVD burner: USB
Image acquisition and processing software	Choice between two software during product configuration: - DELUXE software - MOBILRAD software See detailed information on respective tables

DELUXE software

Exam preparation and image acquisition functions	- Manual creation of patient data card or automatic selection from RIS/HIS through Worklist function - Emergency registration of patient - Programmable exposure factors for each exam and with manual adjustment capability, choice among 4 patient sizes - Display of information about flat panel detector and generator status - Image display following the acquisition
Image processing functions	- Automatic application of processing filter according to the acquired projection - Display and adjustment of LUT curve - Brightness and contrast adjustment - Image repositioning - Zoom - Image cropping - 90° rotation - Vertical/horizontal image inversion - Greyscale image inversion - Calibration and measure functions (distances, angles) - Cobb angle measure - Notes and graphic elements insertion - Possibility to accept or refuse the image
Print	Print editor with possibility to select different print layout formats, number of images, capability of image adjustment during printing phase
CD/DVD writer	It is possible to store images on CD/DVD support in DICOM format or other (JPEG, RAW), with integrated viewer
DICOM functions	– Verify – Storage – Storage Commitment – Print – Worklist – MPPS – CD/DVD DICOM Media Interchange – Query/Retrieve
Compatible Flat Panel detectors	Cabled detectors: PaxScan 4336R, FDX3543RP Wireless detectors: PaxScan 4336W, FDX3543RPW, Pixium 3543EZ, FDX4343RPW For detector's technical features, please refer to its dedicated product data

MOBILRAD software

Exam preparation and image acquisition functions	- Manual creation of patient data card or automatic selection from RIS/HIS through Worklist function - Emergency registration of patient - Programmable exposure factors for each exam and with manual adjustment capability, choice among 4 patient sizes - Display of information about flat panel detector and generator status - Image display following the acquisition
Image processing functions	- Automatic application of processing filter according to the acquired projection - Display and adjustment of LUT curve - Brightness and contrast adjustment - Greyscale image inversion - 90° rotation - Vertical/horizontal image inversion - Tissue harmonization function - Application of spatial filters, with choice of filter type (smooth, sharp), matrix size and filter weight - Variable zoom from 1 to 3 - Notes and graphic elements insertion - Calibration and measure functions (distances, angles) - Electronic collimators function - Image mosaic display (4, 9, 16, 5+1, 7+1)
Print	Print editor with possibility to select different print layout formats, number of images, capability of image adjustment during printing phase
CD/DVD writer	It is possible to store images on CD/DVD support in DICOM format with integrated viewer
DICOM functions	– Verify – Storage – Storage Commitment – Print – Worklist – MPPS – CD/DVD DICOM Media Interchange – Query/Retrieve
Compatible Flat Panel detectors	Cabled detectors: PaxScan 4336R, FDX3543RP Wireless detectors: FDX3543RPW, Pixium 3543EZ, XRpad 4336, FDX4343RPW For detector's technical features, please refer to its dedicated product data

Mechanical features

Wheels diameter	80 mm front; 250 mm rear
Max. length in transport position	1368 mm
Max. height in transport position	1500 mm
Max. width in transport position	618 mm
Handle height	961 mm
Focus-floor distance	417 – 2055 mm
Monobloc rotation around sagittal axis	± 180°
Monobloc rotation around transversal axis	-49° ÷ +102°
Screen vertical rotation	± 22°
Screen horizontal rotation	± 50°
FPD holder	Housing for Flat Panel detector and grid
Weight	170 kg

Electrical features

Power supply	115 / 230 Vac ± 10%, 50/60 Hz
Max. line resistance	< 1 Ω
Connection to standard mains outlet	16 A @ 230 Vac

Environmental conditions

Operating conditions	Temperature: Humidity: Pressure:	from +10° to +40° Celsius from 30% to 75% non condensing from 700 hPa to 1060 hPa
Conditions for transport and storage	Temperature: Humidity: Pressure:	from -25° to +70° Celsius from 10% to 90 % non condensing from 500 hPa to 1060 hPa

Accessories

DAP chamber dosimeter	Option
Remote control	Option

Standard and regulations

CE 0051	CE symbol grants the product compliance to the European Directive for Medical *Devices 93/42/EEC and its revised versions as a class IIB device*

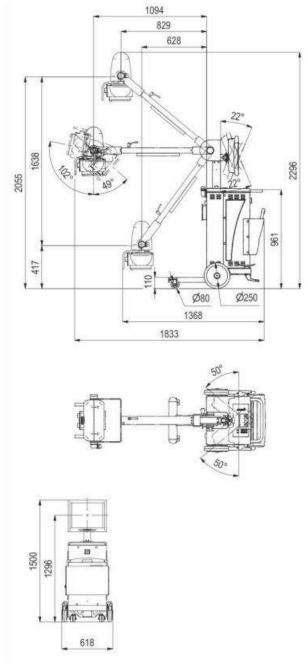## Dimensions (all quotes in mm)

Note: Products are continuously under review in the light of technical advancement. The actual specification may therefore be subject to improvement or modification without notice.

Company with Quality System certified by

ISO 9001:2015   ISO 13485:2016