



Visitor T30M-DR

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

Product Data

X-ray generator

Tochnology	Migraphagagar managad control panal
Technology	Microprocessor managed control panel
Frequency	40 kHz in high voltage
Ripple	< 2% @ 100 kV
Power	Max. 32 kW
Monobloc thermal capacity	600 kJ (800 kHU)
Operating modes	2 points technique (kV / mAs settings)
kV range	40 ÷ 150 kV (1 kV steps)
mA range	70 – 350 mA according to kV selection
mAs range	0.1 - 350 mAs (12.5% steps)
Time range	0.001 - 3 s
(according to mAs selection)	
Exposure controls	- Double switch X-ray handswitch with extensible
·	cable.
	- Remote control (optional)
User's interface	Keyboard with alphanumeric LCD display
Service program	Dedicated application for technical assistance:
. 3	- unit parameters configuration
	- warnings management
	- X-ray tube seasoning and calibration
	- Flat Panel detector calibration
	- DAP calibration
	- motor setup
	· ·
	- check and management of batteries' status
	- history of the last 200 exposures





X-ray tube

Type	Rotating anode, 3000 rpm
Focal spots	Small focus: 0.6 mm
	Large focus: 1.2 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
Light intensity	> 160 lux
Timer	30 s light timer
SID measurement	Extractable meter
Collimator rotation	± 120°
Additional filtration by manual	1 mm Al + 0.1 mm Cu; 1 mm Al + 0.2 mm Cu; 2 mm Al
selection	

Digital system - panel PC

Digital System Panel 1 0	
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	Choice between two software during product configura-
software	tion:
	- DELUXE software
	- MOBILRAD software
	See detailed information on respective tables





DELUXE software

Exam preparation and image	- Manual creation of patient data card or automatic se-
	'
acquisition functions	lection from RIS/HIS through Worklist function
	Emergency registration of patientProgrammable exposure factors for each exam and
	with manual adjustment capability, choice among 4 pa-
	tient 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 lay-
	out formats, number of images, capability of image ad-
	justment 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
	Pixium 3543EZ, FDX4343RPW For detector's technical features, please refer to its ded-





MOBILRAD software

MOBILKAD SOLWARE	
Exam preparation and image	- Manual creation of patient data card or automatic se-
acquisition functions	lection from RIS/HIS through Worklist function
	- Emergency registration of patient
	- Programmable exposure factors for each exam and
	with manual adjustment capability, choice among 4 pa-
	tient 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 lay-
	out formats, number of images, capability of image ad-
	justment 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
Timpatiste Hack after detectors	Wireless detectors: FDX3543RPW, Pixium 3543EZ,
	XRpad 4336, FDX4343RPW
	For detector's technical features, please refer to its ded-
	icated product data
	I reacts broader data





Mechanical features

Wheels diameter	Anterior: 125 mm, antistatic, cushioned
	Posterior: 300 mm, antistatic
Max. length in transport position	1168 mm
Max. height in transport position	1855 mm
Max. width in transport position	576 mm
Handle height	900 mm
Focus-floor distance	726 - 2013 mm
Maximum height	2242 mm
Monobloc rotation around sagittal axis	± 180°
Monobloc rotation around transversal axis	-37° ÷ +90°
Arm extension	Extension of 360 mm.
	710 ÷ 1070 mm (frontal range)
	517 ÷ 877 mm (lateral range)
Column rotation around its axis	± 320° from parking position
FPD holder	Housing for Flat Panel detector and grid
Weight (without Flat Panel detector)	412 kg, including batteries

Motor-driven battery system

Battery type	VRLA (Valve regulated lead acid batteries)
Battery pack	12 batteries x 12 V, 18 Ah, Pb, 144 Vdc
Nominal voltage	144 Vdc
Load voltage (worst case)	100 V @ 200 A
Low battery indicator	Yes
Typical charging time	6 h
Safeties	Overtemperature, overvoltage, charge timeout
System autonomy	> 8000 mAs
Forward speed	0 ÷ 5 km/h (arm in transport position)
Backward speed	0 ÷ 2,5 km/h (arm not in transport position)
Maximum overcomable slope	12° (21%)
Safeties	- Anterior anticollision bumper
	- Emergency pushbutton

Electrical features

Power supply (only for batteries charging)	115 Vac – 15% ÷ 230 Vac +10%, 50/60 Hz
Adsorbed current	10 A
Max. line resistance	< 1 Ω
Connection to standard mains outlet	16 A @ 230 Vac
Power cable	2.9 m, retractile





Environmental conditions

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

Accessories

DAP chamber dosimeter	Option
Remote control	Option
Wi-Fi data transfer to PACS	Option

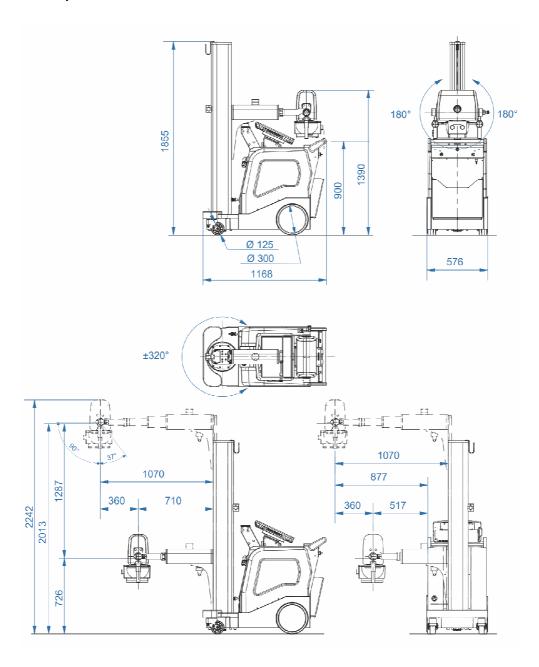
Standard and regulations

1	C E 0051	CE symbol grants the product compliance to the European Directive for Medical
1	0051	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.

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