

X-DRS Mobile 320 with rotating column

Technical Specifications



Electrical Specifications

Mains connection	115 Vac / 230 Vac \pm 10 %, standard monophase with ground conductor. Automatic setting of the equipment according to mains voltage
Frequency	50 Hz / 60 Hz \pm 5 Hz
Absorbed current	10 A @ 115 / 230 Vac
Line compensation	Automatic
Line resistance	< 1 Ω @ 115 / 230 Vac
Standard socket	16 A @ 230 Vac
Power supply cable	8 m
Protection class	IPX \emptyset

Mechanical Specifications

W x L x H (in transport position)	695 mm x 1,489 mm x 1,504 mm (27.36 in x 58.62 in x 59.21 in)
Transport handle height	932 mm (36,69 in)
Focus-ground distance (Z-axis)	444 mm \div 2,153 mm (17.48 in \div 84.76 in)
Max. height	2,393 mm (94.21 in)
Rotation of the arm around the axis Y (γ-swivel)	\pm 90°
Rotation of the monobloc	Around the arm axis (α swivel): \pm 180° Around its axis (γ swivel): 151° (+ 102° \div - 49° with arm in horizontal position)
Movement	Manual with dead man parking brake.
Weight	240 kg (529.11 lb)

Environmental Conditions

Operating Temperature:

- 10° C to 40° C (50° F to 104° F)
- Humidity: 30 % to 75 % (non-condensing)
- Atmospheric pressure: 700 hPa to 1,060 hPa

Transport / Storage

- Temperature: -25° C to 70° C (-4° F to 122° F)
- Humidity: 10 % to 90 % (non-condensing)
- Atmospheric pressure: 500 hPa to 1,060 hPa

X-ray Specifications

Nominal power (IEC 60601-1) 32 kW @ 100 kV, 320 mA, 100 ms

kV variation range 40 ÷ 125 kV at steps of 1 kV

mA variation range 50 ÷ 400 mA

mAs variation range 0.1 ÷ 220 mAs

Exposure times range 0.001 ÷ 2.2 s according to mAs

X-ray group

Monoblock

- Max. power (100 kV - 320 mA): 32 kW
- Max voltage at the tube: 125 kV
- Max current at the tube: 450 mA
- Min. inherent filtration @ 75 kV: 1.1 mm Al
- Thermal capacity available: 500 kJ
- Continuous thermal dissipation: 55 W
- Weight: 19.4 kg

X-ray tube

- Rotation speed: 3,000 min⁻¹
- Nominal High voltage: 130 kVp
- Nominal focus dim. (IEC 60336): 0.8 mm small focus, 1.3 mm large focus
- Nominal anodic power (IEC 60613): 16 kW small focus, 32 kW large focus
- Thermal capacity of the anode: 80 kJ (107 KHU)
- Max continuous anode dissipation: 300 W
- Min. inherent filtration (IEC 522): 0.7 mm Al

Collimator

- Collimation: Manual with internal light source, multilayer, squared field.
- Coverage of the field at 100 cm FFD (SID): min 0 x 0 cm, max 43 x 43 cm
- Lighting source: Clusters of high-brightness LED power
- Focal distance measurement: Retractable tape measure (max extension 3 m)
- Rotation: ± 120°
- Weight: 5.5 kg
- Inherent filtration @ 75 kV: 2 mm equivalent Al

Detector

Selectable Detectors	X-DR L WiFi	X-DR L WiFi Premium
Pixel Size	150 µm	100 µm
Pixel Matrix	2304 x 2800	3500 x 4300

Weight	3.4 kg	2.8 kg
Protection Class	IPX1	IP56
Uniform Load	150 kg	300 kg
Local Load	100 kg (4 cm diameter)	150 kg (4 cm diameter)

Panel PC

CPU	Intel® Core™ i7
RAM	4 GB
Mass Storage	60 GB SSD, 460 GB HDD
Network	Gigabit LAN RJ45, WLAN IEEE 802.11 ac / a / b / g / n
Display	19", 1280 x 1024, multi-touch screen
Operating System	Windows 10 IoT

Software

Configurations	EXAMION X-AQS DICOM Modality SCU <ul style="list-style-type: none">• DICOM Worklist SCU• DICOM Store SCU EXAMION X-AQS PACS <ul style="list-style-type: none">• Integrated Mini-PACS
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