

## X-DRS Mobile Pro 320

### Technical Specifications



Option:



### Electrical Specifications

<b>Mains connection:</b>	115 V / 230 V $\pm 10\%$ - 50/60 Hz $\pm 5$ Hz, standard monophase with ground conductor.
<b>Absorbed current</b>	10 A
<b>Line compensation</b>	Automatic
<b>Line resistance</b>	$< 1 \Omega$ @ 115 / 230 Vac
<b>Standard socket</b>	16 A @ 230 V
<b>Power supply cable</b>	2.9 m, retractable

### Mechanical Specifications

	Fixed Column	Option: Telescopic Column
<b>W x L x H (in transport position)</b>	576 mm x 1168 mm x 1855 mm	576 mm x 1200 mm x 1421 mm
<b>Transport handle height</b>	900 mm	900 mm
<b>Focus-ground distance (Z-axis)</b>	726 mm ÷ 2013 mm	660 mm ÷ 1354 mm
<b>Max. height</b>	2242 mm	2242 mm
<b>Arm extension (X-axis)</b>	360 mm	360 mm
<b>Front range</b>	710 mm ÷ 1070 mm	710 mm ÷ 1070 mm
<b>Lateral range</b>	517 mm ÷ 877 mm	536 mm ÷ 896 mm
<b>Rotation of the monobloc</b>	<ul style="list-style-type: none"> <li>• Around the arm axis (<math>\alpha</math> swivel): <math>\pm 180^\circ</math></li> <li>• Around the column axis (<math>\beta</math> swivel): <math>\pm 320^\circ</math> from transport position</li> <li>• Around its axis (<math>\gamma</math> swivel): <math>127^\circ</math> (<math>90^\circ</math> forward, <math>37^\circ</math> backward)</li> </ul>	
<b>Movement</b>	Motorized, speed proportional to the force impressed on the transport handle.	
<b>Speed forward (transport position)</b>	0 ÷ 1,4 m/s	
<b>Speed forward in working position</b>	0 ÷ 0,7 m/s	
<b>Speed backwards</b>	0 ÷ 0,7 m/s	

<b>Max. superable inclination</b>	12° (21 %)
<b>Diameter of the wheels</b>	<ul style="list-style-type: none"><li>• Front: 125 mm, antistatic, damped</li><li>• Rear: 300 mm, antistatic</li></ul>
<b>Weight</b>	412 kg, batteries included
<b>Environmental Conditions</b>	<p><b>Operating Temperature:</b></p> <ul style="list-style-type: none"><li>• 10° C to 40° C (50° F to 104° F)</li><li>• Humidity: 30 % to 75 % (non-condensing)</li><li>• Atmospheric pressure: 700 hPa to 1060 hPa</li></ul> <p><b>Transport / Storage</b></p> <ul style="list-style-type: none"><li>• Temperature: -25° C to 70° C (-4° F to 122° F)</li><li>• Humidity: 10 % to 90 % (non-condensing)</li><li>• Atmospheric pressure: 500 hPa to 1060 hPa</li></ul>

## Batteries

<b>Battery type</b>	VRLA (Valve regulated lead acid batteries)
<b>Battery pack</b>	12 batteries x 12 V, 18 Ah, Pb, 144 Vdc
<b>Vacuum nominal voltage</b>	144 Vdc
<b>Load voltage (worst case)</b>	100 V @200 A

## Battery charger

<b>Power supply</b>	115 Vac / 230 Vac ±10 % single-phase, 50 / 60 Hz
<b>Absorption by mains</b>	10 A max
<b>Charge indicator</b>	Yes
<b>Charge time</b>	5 h
<b>Safeties</b>	Overtemperature, overvoltage, charge timeout

## X-ray Specifications

<b>Max power of the generator</b>	32 kW (320 mA @ 100 kV)
<b>Inverter frequency in high voltage</b>	40 kHz
<b>kV variation range</b>	40 ÷ 125 kV in steps of 1 kV
<b>mA variation range</b>	70 ÷ 320 mA automatically associated to kV
<b>mAs variation range</b>	0,1 ÷ 320 mAs with increases of 12,5 %
<b>Exposure times range</b>	0,001 ÷ 3 sec according to set mAs
<b>Continuous thermal dissipation</b>	60 W

## mAs range according to kV

<b>Small focus</b>	40 ÷ 100 kV; 0,1 ÷ 200 mAs
<b>Large focus</b>	<ul style="list-style-type: none"><li>• 40 ÷ 100 kV; 0,63 ÷ 320 mAs</li><li>• 101 ÷ 125; 0,63 ÷ 250 mAs</li></ul>

## X-ray group

<b>Monoblock</b>	<ul style="list-style-type: none"> <li>Nominal power (100 kV – 320 mA) 0.1 s: 32 kW</li> <li>Max voltage at the tube: 125 kV</li> <li>Max current at the tube: 350 mA</li> <li>Min. inherent filtration @ 75 kV: 1.4 mm Al</li> <li>Thermal capacity available: 600 kJ</li> <li>Continuous thermal dissipation: 60 W</li> <li>Weight: 19.0 kg</li> </ul>
<b>X-ray tube</b>	<ul style="list-style-type: none"> <li>Rotation speed: 3000 min<sup>-1</sup></li> <li>Nominal High voltage: 130 kVp</li> <li>Nominal focus dim. (IEC 60336): 0,8 mm small focus, 1,3 mm large focus</li> <li>Nominal anodic power (IEC 60613): 16 kW small focus, 32 kW large focus</li> <li>Thermal capacity of the anode: 80 kJ (107 kWh)</li> <li>Max continuous anode dissipation: 300 W</li> <li>Min. inherent filtration (IEC 522): 0,7 mm Al</li> </ul>
<b>Collimator</b>	<ul style="list-style-type: none"> <li>Collimation: Manual with internal light source, multilayer, squared field.</li> <li>Coverage of the field at 100cm FFD (SID): min 0 x 0 cm, max 43 cm x 43 cm</li> <li>Lighting source: Clusters of high-brightness LED power.</li> <li>Focal distance measurement: Retractable tape measure (max extension 3 m)</li> <li>Rotation: ± 120°</li> <li>Weight: 5.5 kg</li> <li>Inherent filtration @ 75 kV: 2 mm Al</li> </ul>

## Detector Integration

<b>Charging</b>	Charging via cable
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## Detector

Selectable Detectors	X-DR L WiFi	X-DR L WiFi Premium
<b>Pixel Size</b>	150 µm	100 µm
<b>Pixel Matrix</b>	2304 x 2800	3500 x 4300
<b>Weight</b>	3.4 kg	2,8 kg
<b>Protection Class</b>	IPX1	IP56
<b>Uniform Load</b>	150 kg	300 kg
<b>Local Load</b>	100 kg (4 cm diameter)	150 kg (4 cm diameter)

## Panel PC

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

## Software

### Configurations

#### EXAMION X-AQS DICOM Modality SCU

- DICOM Worklist SCU
- DICOM Store SCU

#### EXAMION X-AQS PACS

- Integrated Mini-PACS