



BV Libra

Nobody gives you more

X-ray tube / tank unit

• Tube type	Fixed anode
• Nominal focal spot values (IEC 336)	0.6 IEC and 1.4 IEC
• Nominal X-ray tube voltage	110 kV
• Maximum anode heat content	35.5 kJ = 50 kHU
• Anode cooling capacity	21.6 kJ/min. = 30.6 kHU/min.
• Maximum housing heat content	840 kJ = 1200 kHU
• Inherent filtration	3.0 Al eq.
• Additional filtration	1 mm Al + 0.1 mm Cu

Collimator unit

Iris collimator

• Type	Circular opening, lead iris leaves
• Indication	During LIH (and also on image)

Shutters

• Type	2 independently movable real lead shutters with steel wedge tip
• Rotation	360°
• Indication	During LIH (and also on image)

X-ray generator type		Fixed anode
• Generator type	DC converter; Constant Potential (CP) generator; micro-processor controlled	
• Max. generator output	3.15 kW	
• Max. X-ray tube voltage	110 kV	
• Max. X-ray tube current	20 mA (30 mA for France)	
Continuous fluoroscopy		
• kV range	40 to 110 kV	
• mA range for Low Dose Fluoroscopy mode	0.10 to 3.00 mA (up to 7.20 mA during Auto High Penetration)	
• mA range for High Definition Fluoroscopy mode	0.24 to 7.20 mA	
Pulsed fluoroscopy		
• kV range	40 to 110 kV	
• mA peak range	0.10 to 3.00 mA (up to 7.20 mA for High Penetration)	
• Pulse width	40 ms	
• Pulse rates	12.5 pulses/second	
Intermittent fluoroscopy		
• Pulse time	240 ms	
• Pulse rate	1 PPS (pulse per second)	
• kV range	40 kV - 110 kV	
Radiography		
• kV range	40 - 105 kV	
• mA range	20 mA fixed (30 mA for France)	
• mA range (R'10 series from ISO 497)	2.0 to 80 mAs	
Detection (II/TV)		
• Image intensifier type	Single mode 6" HC Triple mode 9" HRC	
• Nominal image intensifier formats	6": 15 cm 9": 23, 17, and 14 cm (9", 7" and 5")	
• Entrance screen = Input screen	Cesium Iodine	
• Detection Quantum Efficiency (DQE), typical [%] according to IEC 1262-5	6": 60 9": 62	

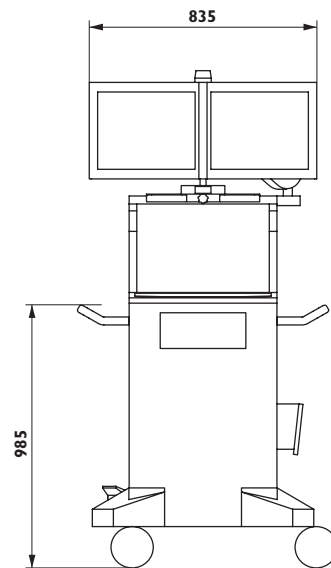
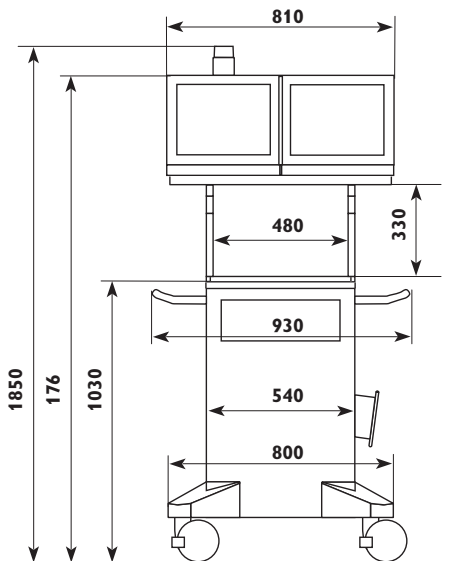
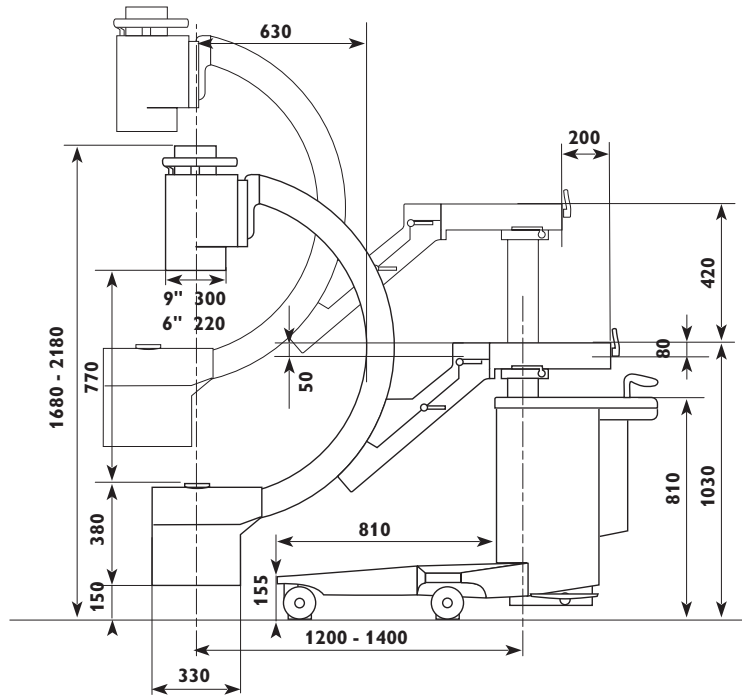
• Grid type	Circular, carbon fiber; 60 lines/cm Ratio = 1:10 at FFD = 100 cm
• TV camera type	Interline transfer CCD; high resolution
• Lens type	Anamorphic lens
• Image rotation by camera	400° : +/- 200°
• Rotation position indication	Pre- indication on image, during LIH
• Video standard	CCIR: 625 lines; 2:1 interlaced
• Image reversal	Yes
• Automatic anatomical measuring field	Yes with 'BodySmart'
TV monitors	
• Type: Standard high quality monitors	High resolution, high contrast, 17"screen size, 75 Hz non-interlaced scan frequency
• Type: High end monitors	High resolution, high contrast , extra high brightness, 17"screen size, 75 Hz non-interlaced scan frequency, Triple Gun technology
• Type: Standard color LCD monitors	Extra high resolution, high contrast, 18"screen size, TFT technology, resolution 1280x1024 (hxv), 250 cd/m ²
• Type: High brightness color LCD monitors	Extra high resolution, high contrast, extra high brightness, 18"screen size, TFT technology, resolution 1280x1024 (hxv), 500 cd/m ² . Both standard and high brightness color LCD monitors can be optionally mounted on a flexible arm for optimal image presentation.
Image storage and processing	
• Digital Image Processor type	Dedicated 12 bit video pipeline processor
• Display image matrix size	1008 x 560 x 8
• Image storage capacity and max. storage rate	1,000 images (max.5 frames/second) 500 images (max.3 frames/second) 50 images (max. 3 frames/second) 16 image, RAM memory (standard)
• Patient data handling	Multipatient database
• Image processing	Edge enhancement (real-time), Windowing (real-time), Recursive noise reduction, Movement detection, Mosaic, Replay
• Processing options	Subtraction, Remasking, Edge enhancement (post), Windowing (post), Annotation, Zoom, Measurement, Electronic shuttering

Geometry	
• Longitudinal movement	200 mm
• Swivel range	± 10°
• Vertical movement	490 mm (+410 mm/-80 mm) Motorized
• Rotation	± 180°, with safety stop at ± 135°
• Angulation (orbital movement)	+90°, -25°
• Source to image distance (SID)	995 mm
• Free space within C-arc	780 mm
• C-arc depth	630 mm
• Brakes for all movements	Yes, manual
• Steering	Rear wheel
• Parallel movement	Via rear wheel control
• Cable deflectors	Yes
• C-arm stand weight	9": 260 kg; 6": 260 kg
• C-arm stand length	9": 1815 mm; 6": 1785 mm
• C-arm stand width	890 mm
• C-arm stand height	1680 mm
• MobileView Station depth	760 mm
• MobileView Station width	930 mm
• MobileView Station height	1850 mm
Power Supply	
• Input voltage	110-240 V +/- 10%
• Frequency	50/60 Hz
Options	
• Laser alignment tool	Yes
• Laser aiming device	Yes (9" only)
• Video paper/transparency printer	Yes
• Video DVD Recorder	Yes
• ViewForum Surgical Workstation	Yes (supports DICOM Query/Retrieve, DVD DICOM Store, Procedure Reporting Package and MIP/MPR)

• Standard DICOM package	Yes (supports DICOM print, DICOM store)
• Advanced DICOM package	Yes (incl. MWL, MPPS, SC)
• Sterile covers	Yes
• Detachable cassette holder	Yes
• High End monitors (triple gun)	Yes
• 18" Color LCD monitors	Yes

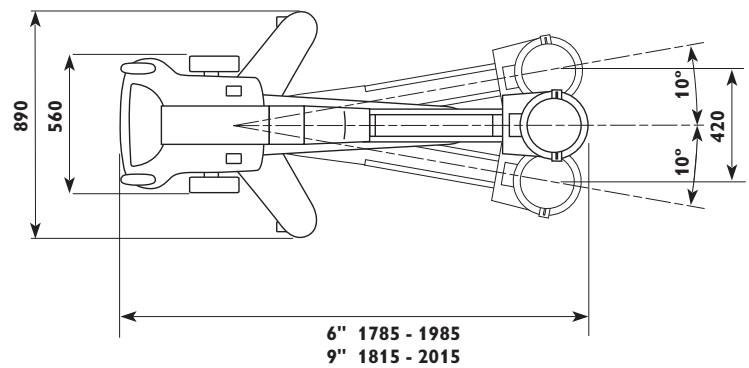
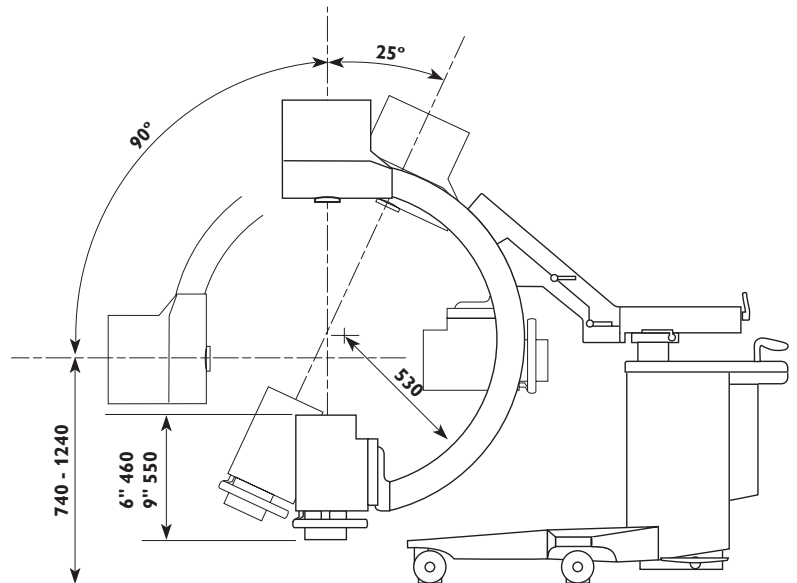
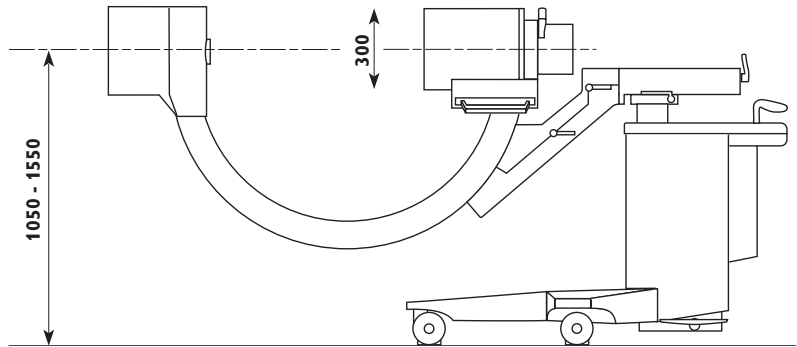
Dimensions BV Libra

Dimensions in mm



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Dimensions in mm



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