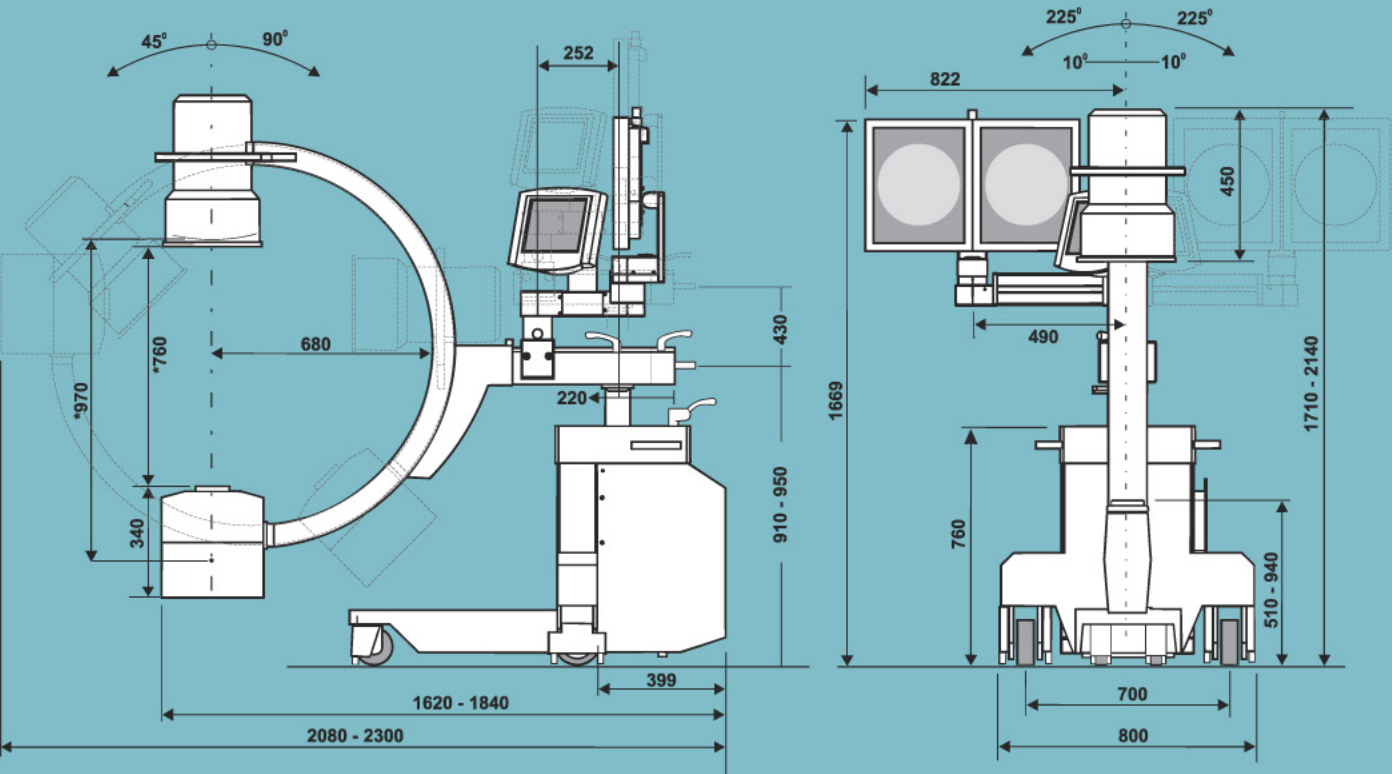


Ziehm Quantum Dimensions (mm)



mm	Inches
220	9
252	9.94
340	13.375
399	15.7
430	17
450	17.75
490	19.3
510	20
680	26.75
700	27.5
760	30
800	31.5
822	19.3
910	35.75
940	37
950	37.4
970	38.25
1669	66.9
1710	67.25
1840	72.5
2080	81.875
2140	84.25
2300	90.5



4181 Latham Street • Riverside, CA 92501
Phone (800) 503-4952 • (951) 781-2020
Fax (951) 341-9345
www.ziehm.com • sales@ziehm.com



Ziehm Quantum™
Where Superb Imaging
and Integration Unite

TECHNICAL SPECIFICATIONS



Ziehm Quantum - Technical Specifications

C-Arm Mobile Stand		
DIMENSIONS & MECHANICS - Motor-driven vertical travel 43 cm (17") - Horizontal travel 22 cm (9") - Orbital rotation 90°/+45° - Pivot rotation 450°/± 225° - Swivelling ('wig-wag') ± 10° - Focus-image receptor distance 97 cm (38.3") (opt 31") - C-Arm depth 68 cm (27") - Width 80 cm (31.6") - Length 160 cm/182 cm (63"/72") - Height 170 cm/214 cm (67"/84") Brakes - Patented steering/braking lever, parallel movement of the mobile stand in all directions X-RAY GENERATOR - X-ray tube - Stationary anode - Dual focus (IEC) 0.5/1.5 mm - Generator type - High frequency 20 kHz - Microprocessor-controlled	Operating Values - Nominal output (100 kV) 2000 watt - Maximal output 2200 watt - Fluoroscopy 40-110 kV 0.2-6.0 mA - Digital radiography (snapshot) 40-110 kV 8 mA Filtering - Total filtering ≥ 4 mm Al equivalent Output - Fluoroscopy 660 W (max.) - Digital radiography 880 W - Tube housing heat capacity 800 Kj 1.14 million HU Collimator System - Collimator rotation ± 90° - Iris collimator 23 cm I.I.:Ø 50-230 mm IMAGE INTENSIFIER - Type - Cesium iodide - DQE (IEC) 65 % - Conversion factor 240cD m⁻²/mRs⁻¹ - Antiscatter grid - Pb 8/40, f_o90	23 cm/9" I.I. - Central resolution 23-15-10 cm (9" - 6") 52-58-68 lp/cm - Contrast ratio 30:1 DIGITAL VIDEO CHAIN Digital Video Camera (high contrast, interlaced) - Active pixels 379,392 - Camera matrix 768 x 494 pixels - Bandwidth of video signal 7.5 MHz - Bandwidth of video amplifier 25 MHz - Video 570 lines - Signal-to-noise ratio 48 db - Control - ADR/AVR I.I. / TV Overall Resolution 15 cm I.I. 20 lp/cm - Signal-to-noise ratio 48 db 23 cm I.I. 16 lp/cm - Contrast resolution > 2 %

Monitor Cart		
MONITORS - High resolution and high brightness dual LCD FPD monitors - Diagonal screen size 18.1" - Bandwidth 45 MHz - Display 1280 x 1024 - Dimensions 15.96" x 13.33" x 3.60" DIGITAL IMAGE PROCESSING Real-Time Processing Functions - Recursive filter 4 steps - Stack filter ('Last Image Hold') 4 steps - Edge enhancement filter 4 steps - Digital image rotation and mirroring without radiation DSA Package - DSA real-time subtraction with re-mask capability - Pixel shift/landmarking Post Processing Functions - Edge enhancement 4 steps - Zoom function 2x & 4x - Image rotation 1-360 - Windowing - Inverse grayscale function	DIGITAL MEMORY - Storage capacity - Option 20,000 images - Memory matrix 1024 x 1024 pixels - Image matrix 1024 x 1024 pixels - Digital processing 16 bit Data Organization - Patient-oriented search function with thumbnail image display ARCHIVING - USB port - Video printer port - Option: External USB DVD-RW NETWORKING - DICOM 3.0 Network Imaging System - Storage class - Print class - Work list - Media class ENVIRONMENTAL REQUIREMENTS - Storage temperature -10° C to 70° C (95 % relative humidity) - Working temperature 10° C to 35° C (85 % relative humidity)	WEIGHT - Mobile stand (23 cm I.I.) 560 - 580 lbs with options ELECTRICAL REQUIREMENTS - Power supply 120/240 Vac ± 10 %, 50/60 Hz - Current consumption - Continuous 12 A - Short-time 30 A - Max. impedance ≤ 0.6 Ω - Safety class I, Type B CERTIFICATION - UL classified with respect to electrical shock, fire and mechanical hazards OPTIONS - Laser localizer, mounted on image intensifier and/or generator - Dose area product meter, with digital display - LPD - Large Patient Diameter key - USB external storage DVD-RW ACCESSORIES - Hand surgery table to mount on image intensifier - Universal cassette holder