



MEDICATECH USA®

Mobile C-arm X-ray System Master Fluoro Omni

INTRODUCTION

Master Fluoro Omni is a powerful and compact single-body C-arm system designed to provide superb image quality at low-dose and make surgical imaging easier for physicians and technicians. as a compact solution perfect for imaging in clinics and surgical environments where space is limited.



FEATURES

Ultimate Low-Dose Digital C-arm System

Low-dose, high-performance surgical imaging system with proven detector and industry leading low dose technology reducing unnecessary radiation exposure for physicians, operators and patients.

RNR, Real-time Noise Reduction Imaging Technology

Real-time motion and non-motion region analysis enables optimal image processing, delivering high-quality low noise images with up to 30% higher SNR.

Compact and User-Friendly Design

As a single body compact system, It is perfect for small clinics and surgical rooms where space is very limited. The system is designed to maximize usability in small spaces.

Improved Workflow, Enhanced Productivity

Equipped with practical functions that help reduce surgery time and maximize user convenience.



SYSTEM CONFIGURATION

Standard Configuration

Unit	Model Name	Remarks
C - arm System	Master Fluoro Omni	C-arm Unit 23x23/ 21x21 Dynamic Flat Panel Detector Green Laser guide (Detector side) Wired 2-button Foot Switch Leaf Collimator Hand Switch Air Kerma Virtual Collimator Manuals (Service, Installation, User) XConsole Imaging SW 32" Touch Monitor

Option

Unit
Compact & Light Monitor Cart + 43" Monitor Wireless 4-button Foot Switch (Additional Purchase Only) DAP Thermal Printer (UP-D897MD) D.S.A (Digital Subtraction Angiography) Green Laser (Tube side) IRIS Collimator CD-ROM Smart Memory Position (Digital Dose & Position recording function)

System Power Requirements

Max. Consume Current	100-127 VAC 50/60Hz, 16A(Continuous),18A(Momentary) 220-240 VAC 50/60Hz, 10A(Continuous),12A(Momentary)
User Voltage	100 - 127V~, 200 - 240V~, 50/60Hz
Line Phase	Single Phase
Line Cord	6M

Ambient Conditions

Operation:

Ambient Temperature	10°C~35°C (for main equipment only)
Relative Humidity	35~75%
Atmospheric pressure	800~1060hPa



Transportation & Storage:

Ambient Temperature	-10°C~50°C (for main equipment only)
Relative Humidity	10~85%
Atmospheric pressure	700~1060hPa

PRODUCT SPECIFICATION :

X-ray Generator:

Type		High frequency
Power output (kW)		5 kW
Input line voltage		100 - 240 VAC single
Input line frequency		50/60 Hz
Inverting frequency		80 - 250
Fluoroscopy Mode		
Fluoroscopy	kV Range	40 – 120kV
	mA Range	0.2 ~ 10, 20mA
Radiography Mode		
Radiography	kV Range	40 – 120kV
	mA Range	20/32/63/100mA

X-ray Monoblock:

X-ray tube	Stationary anode
Target angle	10°
X-ray tube voltage	40 - 125kV
Focal spot	0.6 / 1.2mm
Anode heat contents	60kJ

Detector:

EXPD 2121P	
Panel	IGZO TFT
Scintillator	Csl (Cesium Iodide)
Effective Active Area	210 x 210mm
Resolution	1,500 x 1,500 pixels
Pixel Pitch	140um
A/D Conversion	16 bit
Energy Range	40-160kVp
Power Consumption	30VA



EXPD 2323PB	
Panel	IGZO TFT
Scintillator	CsI (Cesium Iodide)
Effective Active Area	227.3 x 227.3mm
Resolution	1,536 x 1,536 pixels
Pixel Pitch	148um
A/D Conversion	16 bit
Energy Range	40-160kVp
Power Consumption	30VA

Grid:

Standard	
Size	246 x 246mm
Grid Line	200 L/inch
Ratio	8:1
Focus Distance	100cm

Monitor:

Standard	
Size	31.5"
Panel Technology	3,840 x 2,160
Native Resolution	450cd/ m2 (Typ.)
Brightness (Typ., Nit)	3,000:1
Contrast Ratio	178 x 178 °
Viewing Angle (H x V)	6 ms Typ
Response Time	Yes
Touch	65W max
Power Consumption	9.8 kg
Weight	31.5"

X Console PC Requirements:

CPU	Intel i7-12700K
RAM	16GB
HDD	SSD 250
Operating System	Window 11 IoT
Power Supply	650W

OP Monitor :

Size	15.6"
Display Panel	a-Si TFT – LCD, LCM
Resolution	1,920 (H) x 1,080 (V)
Brightness (Typ., nit)	400cd/ m2 (Typ.)
Contrast Ratio	800:1
Touch	Yes



Standard	
Type	Micro switch
Button	2 pedal
Wireless	N/A
Degree of Protection	IP68 to IEC/EN 60529
Option (Wireless)	
Type	Micro switch
Button	2 pedal, 2 button
Degree of Protection	IPX8 to IEC/EN 60529
Applied Standards	IEC 60601-1: ANSI/AAMI ES60601-1: IEC 60529
Pedal	Shock-proof thermoplastic, UL 94, V-0/V-2
Housing	Shock-proof thermoplastic UL 94, V-0, RAL
Voltage Supply	3 commercially available batteries, Type C (LR 14)
Antenna	Internal Antenna
Frequency	2.4 – 2.4835 GHz
Channel Bandwidth	2MHz
Modulation Principle	GFSK, adaptive frequency, hopping of 40 channels
HF data rate	1Mbps
Interface data rate	115.2 kBd (UART)

Memory Position (Option):

Horizontal Movement	200mm (Display in 1cm increments)
Vertical Movement	500mm (Display in 1cm increments)
Pivot Rotation	470° (±235°) (Display in 1degree increments)
Orbital Rotation	165° (±120° ~ -45°) (Display in 1 degree increments)
Pre-Set Memory	3 Positions
Save State	Yes

Thermal Print (Option):

Print	SONY UP-D898MD
Power Requirements	100 to 240V AC, 50/60Hz
Input Current	1.3A to 0.6A
Pixels (Maximum)	4,096 x 1,280 dots
Image size (Maximum)	320 x 100mm
Dimensions (W/H/D)	154 x 88 x 240mm
Weight	2.5kg

Image Processing:

Image Processing	RNR (Motion Detection)
	ABC (Auto Brightness Control) [Object Detection]
	ABM (Auto Brightness Memory)
	Auto Pixel Stretch
	Metal Detection



	Needle Enhancement
	Noise Reduction Filter
	Edge Enhancement Filter
	Profile
Digital Imaging System (DIS)	DIS Program
	PACS (DICOM 3.0)
	CD/DVD Burn
	Patient Management
	Image W/L
	LIH, Image Rotate

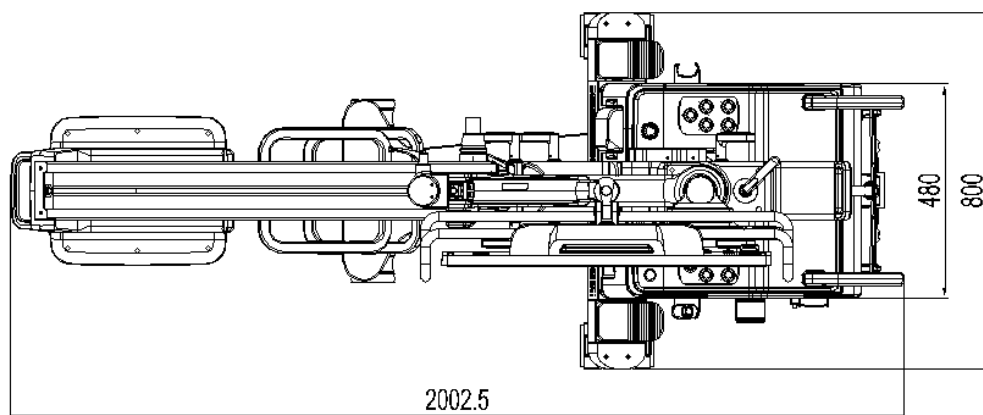
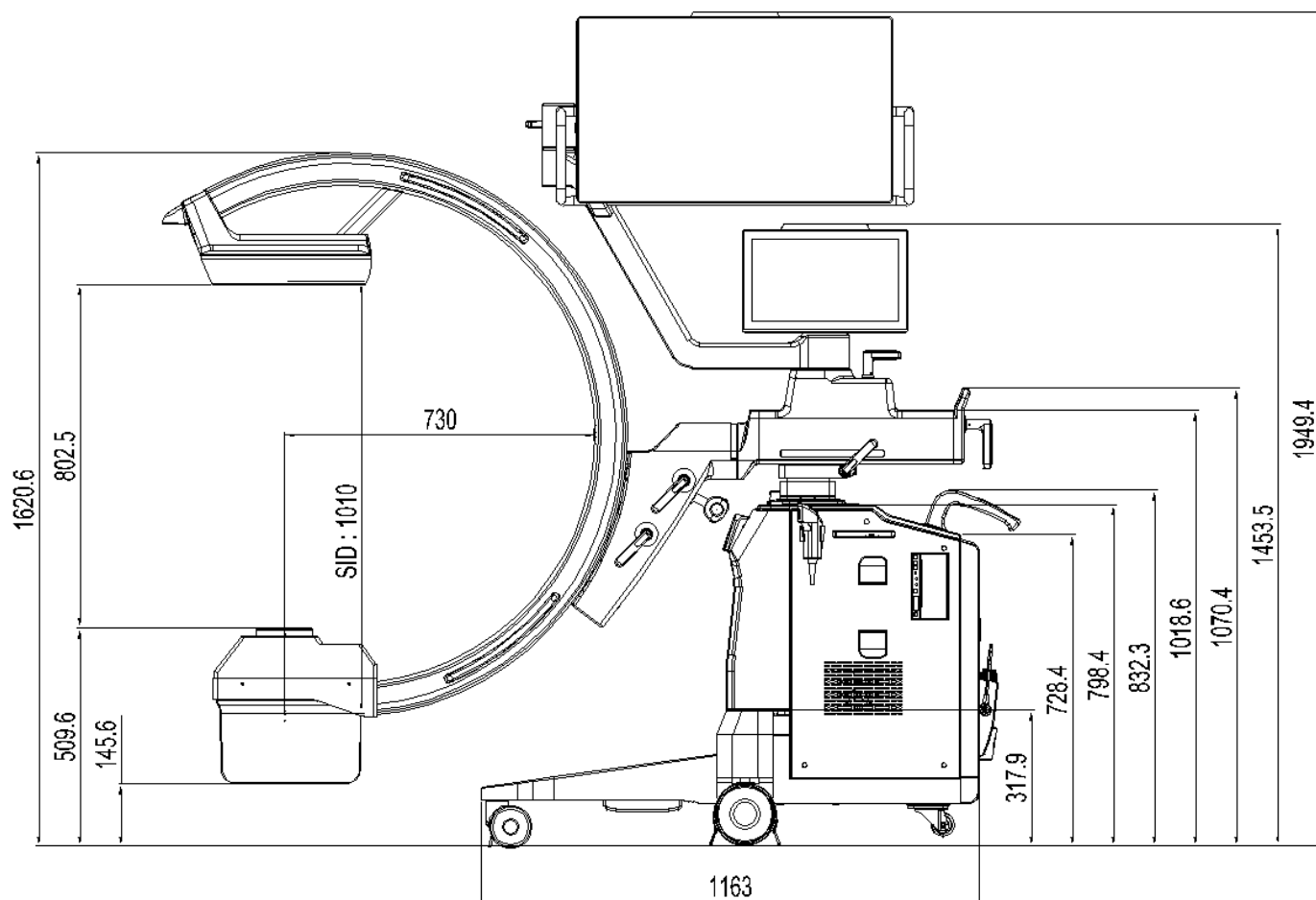
Radiation Safety:

Collimator	4 Leaf Collimator
	Leaf Rotation
	Virtual Collimator
	Iris Collimator (Option)
Laser Guide	Green Laser (Class 2)
	At Detector (Detector to Tube side)
Dose Report	Air-Kerma
	DAP (Option)
	RDSR Support

C-arm:

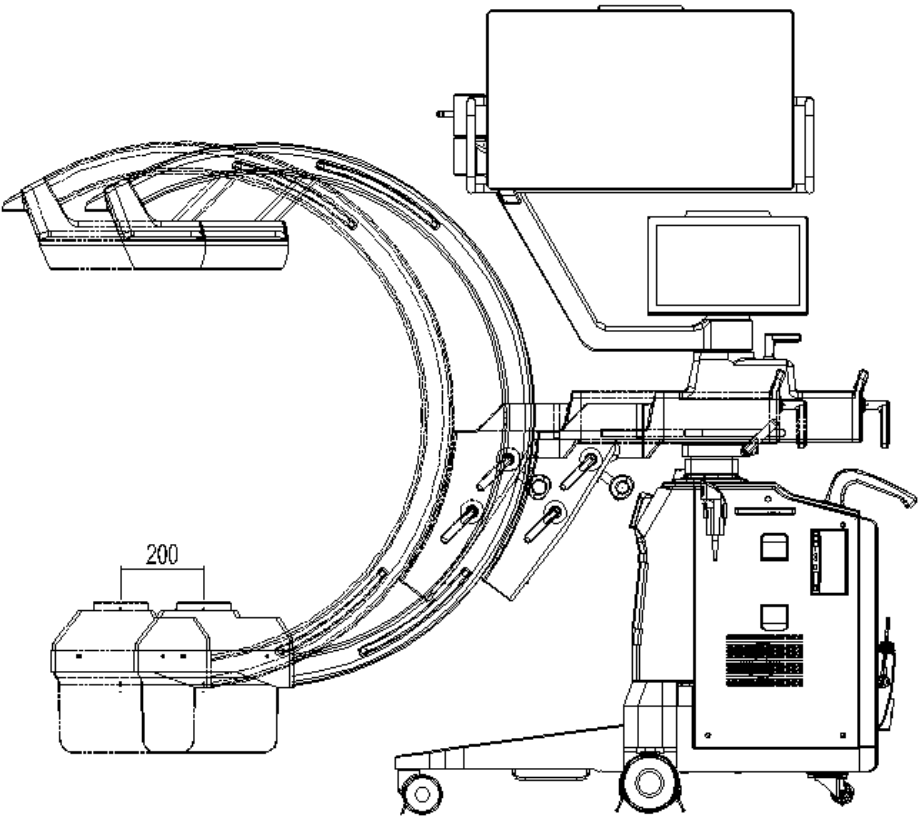
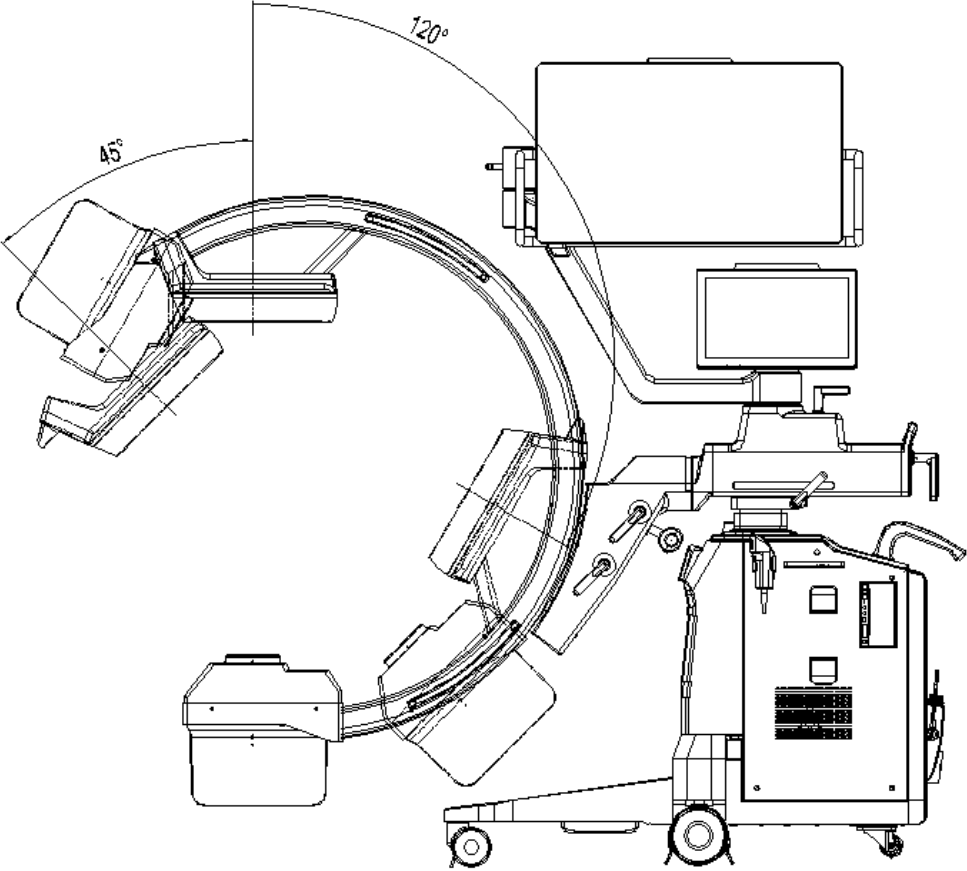
SID	1,010mm
Orbital Rotation	165 ° (+120 ° / -45 °)
Horizontal Movement	200mm
Vertical Movement	500mm
Panning Movement	± 12.5 °
Pivot Rotation (C-arm rotation)	± 235 °

Outline Drawings



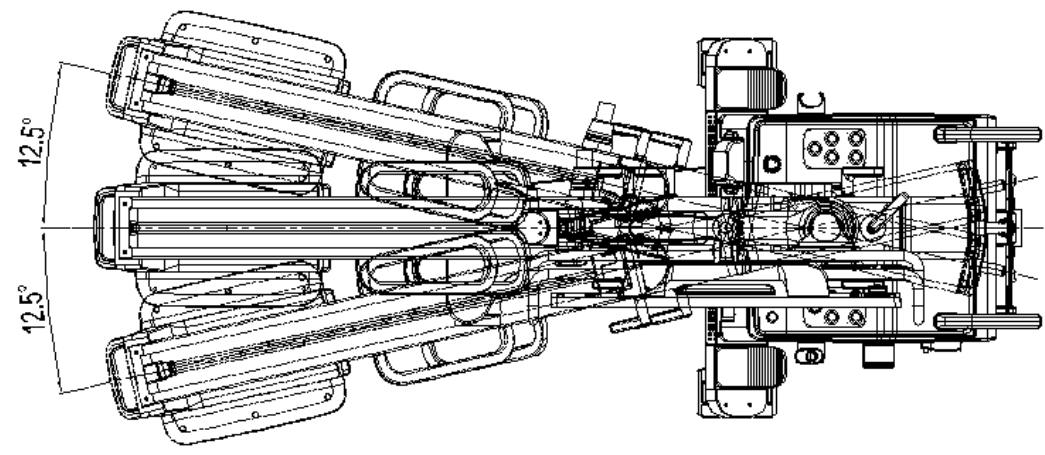
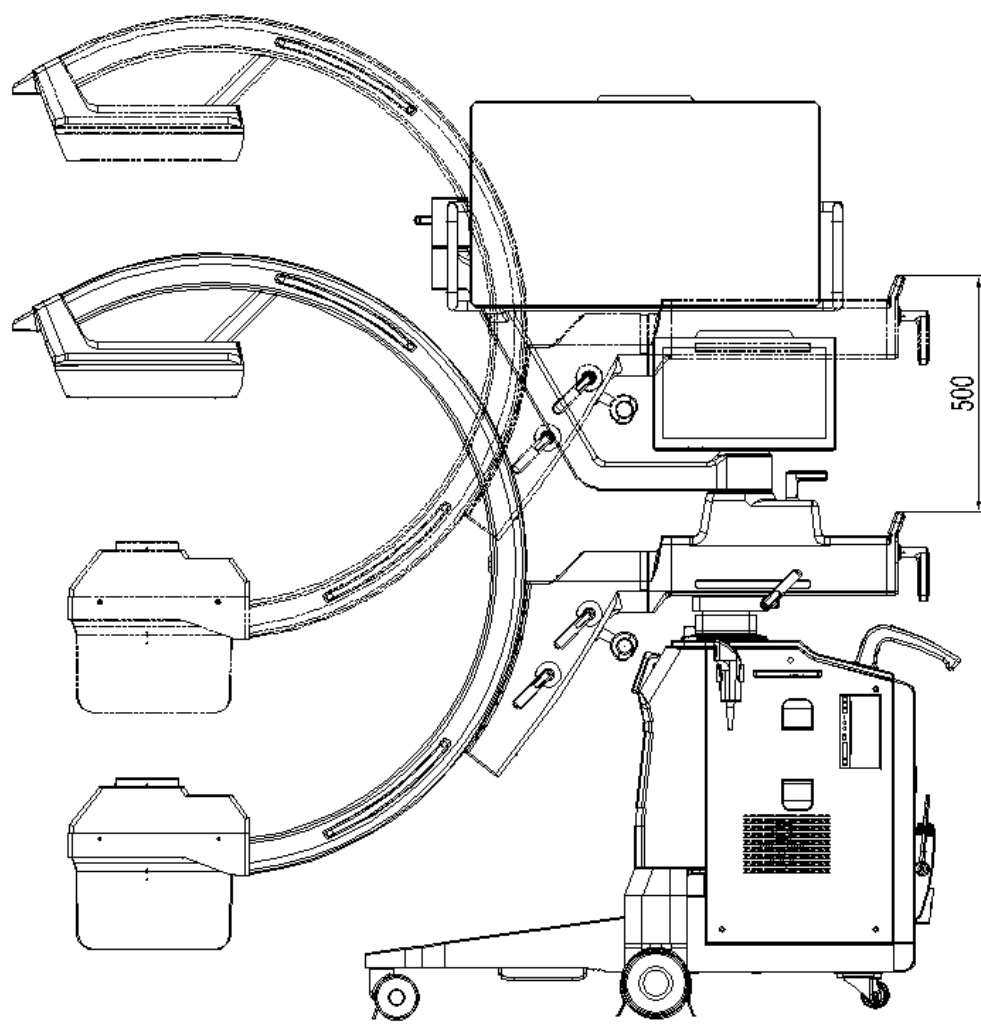


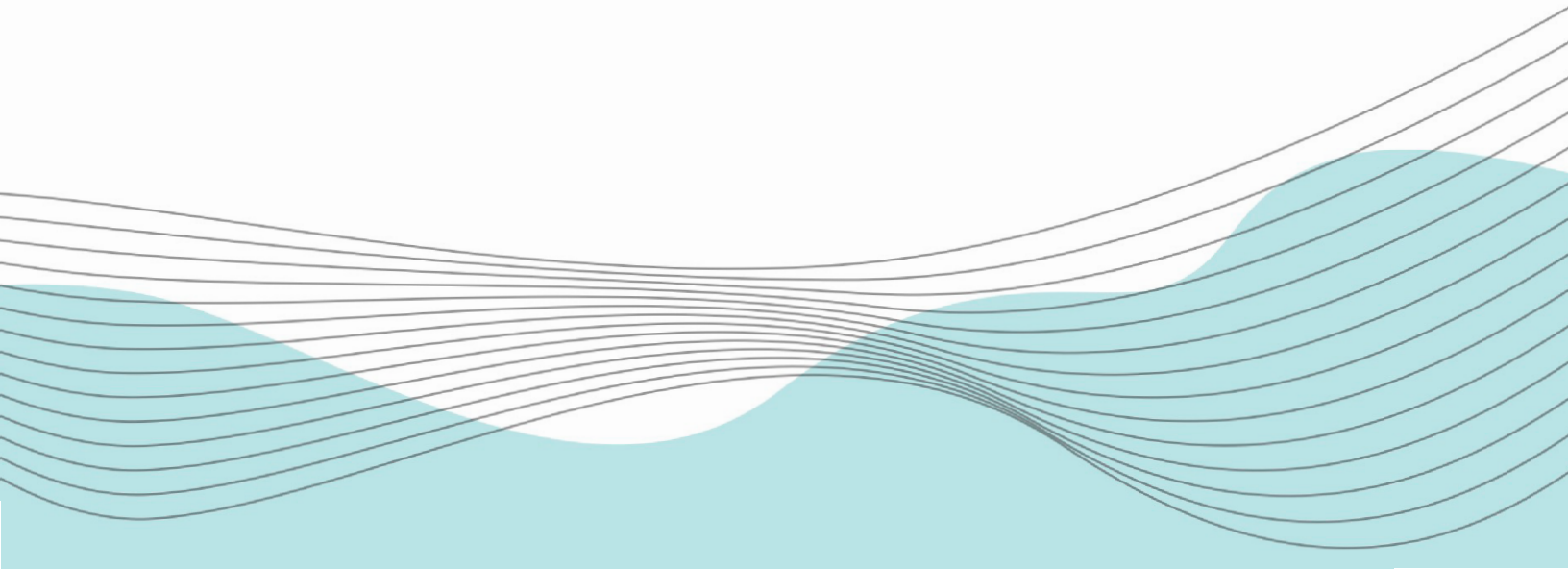
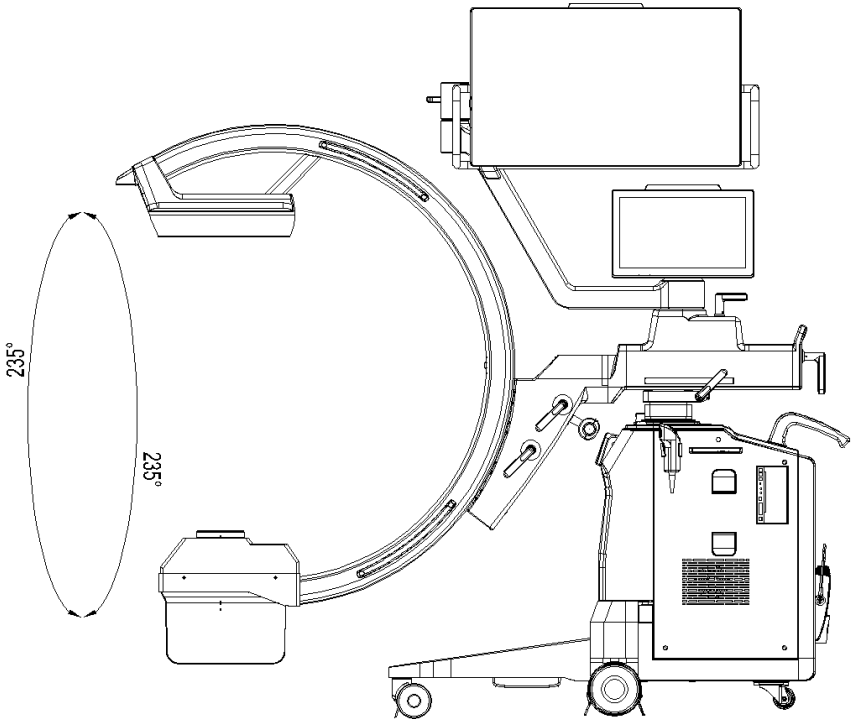
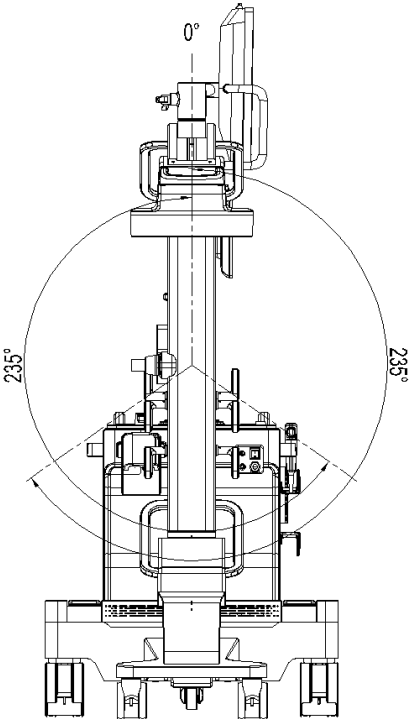
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