



***STERNMED***<sup>®</sup>



## Xenox C300 & C400

Mobile c-arm





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### Mobile c-arm

The Xenox C400 is a highly reliable, tough and enduring digital mobile system with flat panel equipped with digital angiographic memory suitable for all the applications having high diagnostic content. The device is designed to provide the best performance with maximum affordability. This device is also available with image intensifier as the Xenox C300.

Its ease of handling, x-ray parameters, image quality and safety are some of its main advantages.



## FEATURES

- Xenox C400 (with Flat Panel) 30x30 or 21x21 cm
- 12" and 9" image intensifier option available as Xenox C300
- Digital Memories: 1,5k x 1,5k, with acquisition up to 25 fps (for Xenox C400); 1kx1k, with acquisition up to 30 frames/sec (for Xenox C300)
- 30 kW H.V. Generator
- DUAL COOLING System for immediate and effective heat removal
- DUAL POWER System: power reserve system
- E-Motion System: C-arm movements, fully motorized (optional)
- 215 mm Horizontal Run (17 mm in motorized version)
- Wide orbital movement 150°
- C-arm Lateral rotation:  $\pm 180^\circ$
- 10" Touch Screen control console

## APPLICATIONS

- Electrophysiology studies
- Angiographic procedures
- Vascular surgery
- Endovascular applications
- Urology procedures
- Catheter procedures
- Neuroradiology
- General surgery
- Traumatology
- Orthopaedic
- Interventional radiology

## AVAILABLE MODELS

Xenox C400 is equipped with Flat Panel 30x30 or 21x21cm . The system is also available with image intensifier: 9" or 13" which is called Xenox C300.



215 mm horizontal run (175 mm in motorized version)



Wide orbital movement: 150°



### Display station

The monitor trolley is equipped with a 27" High Resolution main monitor for work and memory images displaying and a dedicated 21,5" Touch Screen monitor for the operator.



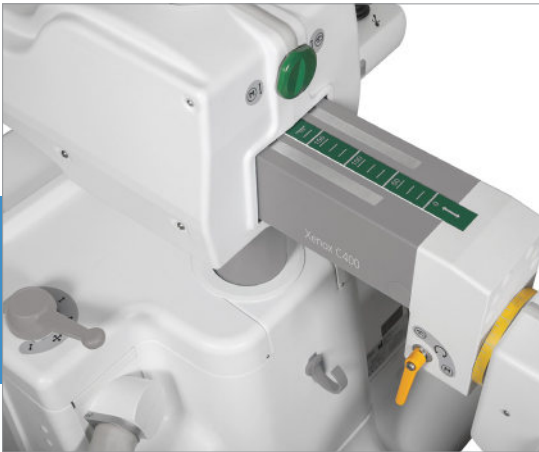


C-arm lateral rotation  $\pm 180^\circ$



#### USER'S INTERFACE

Easy and practical 10" Touch Screen control console, installed directly on the unit, for all the operative parameters and messages of possible faults.



Color-coded axes and brake handles make orientation intuitive and easy



Remote control panel, 3 joysticks (only with E-Motion option)



The operator can work outside the sterile field thanks to the monitors' rotation.

## OPERATING MODES AND FUNCTIONALITY

### OPERATING MODALITIES OF (RTP) MEMORY

- CONTINUOUS FLUOROSCOPY
- HIGH DOSE PULSED FLUOROSCOPY
- PULSED FLUOROGRAPHY
- DIGITAL SNAPSHOT
- FLUOROSCOPY mA : (range: 0,5-8 mA)
- RADIOGRAPHY: 2 points technique (kV and mAs)
- CINE sequence: up to 25 fps. (included in basic configuration)

### (DFG) Digital video processing

- Number of images on Hard Disk: 200.000 max resolution images acquired (1536x1536)
- Number of images on Hard Disk: 400.000 max resolution images acquired (1024x1024)
- Digital Memories: -1,5k x 1,5k, with acquisition up to 25 fps (for Xenox C400); -1k x 1k, with acquisition up to 30 frames/sec (for Xenox C300)
- Video output: 2 x DVI 1280x1024
- Image format of the working memory: Xenox C400: with 21 x 21 FBD 1024 x 1024 x 16 bit and with 30 x 30 FBD 1536 x 1536 x 16bit; Xenox C300:1024 x 1024 x 12 bit
- Image format: 1024 x 1024 x 16 bit
- Number of monitors: 27" High Resolution main monitor and a dedicated 21,5" Touch Screen monitor

### SOFTWARE BASE FUNCTION (LIVE PROCESSING):

- Display of patient data, hospital name, x-ray parameters on operator monitor
- Recursive filter for noise reduction
- Dynamic Recursive Filter for patient's movement compensation
- Edge enhancement spatial filter
- Edge enhancement spatial filter
- Horizontal and vertical image inversion
- Digital zoom during fluoroscopy mode (new)
- Metal detection in manual or automatic mode (new)
- Continuous digital image rotation
- Adjustable contrast and brightness
- Adaptive gamma curve
- Continuous fluoroscopy modality with LIH (Last Image Hold)
- Low dose fluoroscopy

- Timer Function
- MEASUREMENTS: length, angles, with manual calibration system, text overlay
- Anatomic program set up
- 80 anatomic programs in fluoroscope

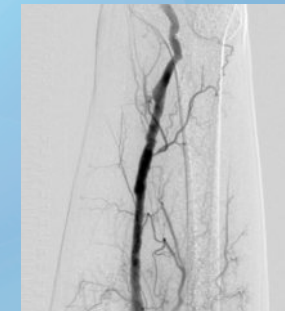
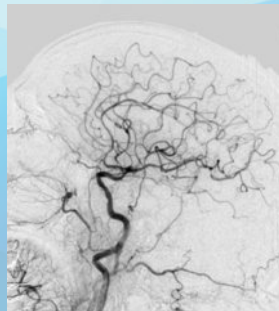
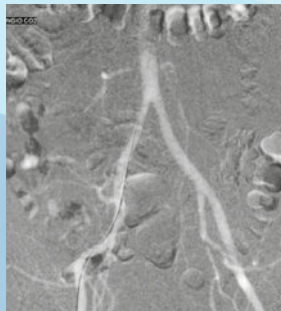
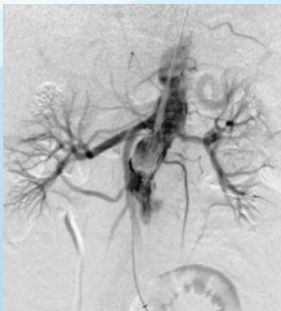
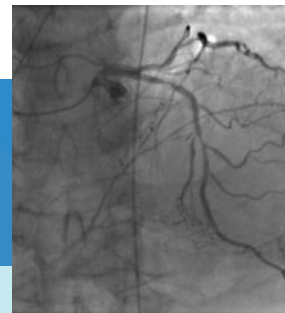
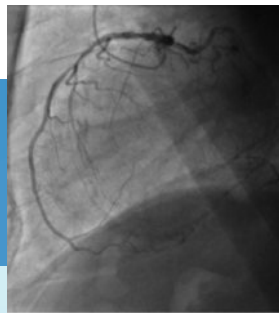
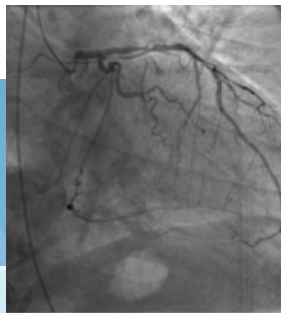
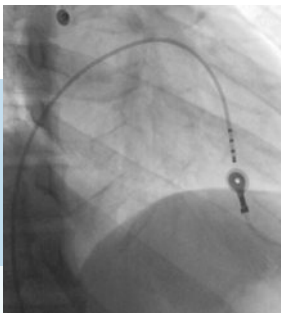
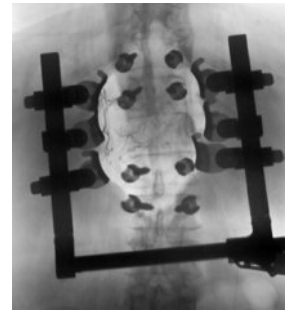
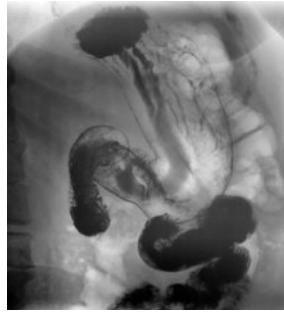
### POST-PROCESSING BASE FEATURES:

- Last Image Hold (LIH)
- Last fluoroscopy Run Hold (LRH)
- Horizontal/Vertical image inversion
- Digital image rotation
- Grey scale image inversion
- Adjustable contrast and brightness
- Adjustable Gamma curve (LUT)
- Edge enhancement
- Electronic shutters (Rectangular and circular)
- Electronic Zoom Roam from 1x to 5x
- Electronic mobile lens
- Mosaic Overview
- Patient's selection for exams and images management
- Patient's exams transfer in the DICOM system

### OPTIONS

- DSA OPTION: Real time DSA with mask, Real time DSA with CO2 contrast liquid, Max opacity modality, Land marking, Road mapping, Mask selection for road mapping function, Virtual Road Mapping using fluorography image, Autoinjector delay selection, "CO2" contrast injection modality, Vascular tracing Function, Mask replace function, "Pixel shifting" function, Stenosis measure. In case the options are present all the relative functions are activated
- DICOM FUNCTION (Option): DICOM VERIFY, DICOM STORAGE, DICOM WORKLIST, DICOM MEDIA INTERCHANGE, DICOM SEND, DICOM MPPS, DICOM STRUCTURED REPORT, DICOM QUERY/RETRIEVE (Q/R), DICOM PRINT INTERFACE WITH DICOM FILM EDITOR
- Thermal printer
- Patient radiation dose measuring device (DAP chamber)
- Laser localizer for centering the anatomical area to be examined on the I.I. side
- Remote wireless footswitch

## EXCELLENT CLINICAL IMAGES



## TECHNICAL SPECIFICATIONS

### Xenox C300 | SternMed mobile Digital C-arm

	Manual moving - I.I. 9"	E-motion - I.I. 9"	E-motion - I.I. 13"
Horizontal run	210 mm	175 mm	210 mm
Motorized Vertical run	500 mm *	500 mm	460 mm
C-Arm LATERAL Rotation	$\pm 140^\circ$ ( $\pm 180^\circ$ * )	+ 180°; - 90° (-180° manual)	+ 180°; - 90° (-180° manual)
C-Arm ORBITAL Movement	135° (90°+45°)	135° (90°+45°)	115° (90°+25°)
WIG-WAG	$\pm 10^\circ$	$\pm 10^\circ$	$\pm 10^\circ$
Useful Space	755 mm	755 mm	708 mm
C-Arm Depth	665 mm	665 mm	640 mm
Min/ Max Height	1750/ 2250 mm	1750 / 2250 mm	1805 / 2265 mm
Min/Max Length	2075/ 2285 mm	2100 / 2275 mm	2118/ 2293 mm
Max Width	800 mm	800 mm	800 mm
S.I.D.	1029 mm	1029 mm	1009 mm

\*Measure obtained without security mechanical block

## TECHNICAL SPECIFICATIONS

### Xenox C400 | SternMed mobile Digital C-arm with FPD

	Manual moving	E- Motion
Horizontal run	210 mm	175 mm
Motorized Vertical run	500 mm	500 mm
C-Arm LATERAL Rotation	$\pm 140^\circ$ ( $\pm 180^\circ$ * )	+ 180°; - 90° (-180° manual)
C-Arm ORBITAL Movement	150° (105°,-45°)	150° (105°,-45°)
WIG-WAG	$\pm 10^\circ$	$\pm 10^\circ$
Useful Space	810 mm	810 mm
C-Arm Depth	640 mm	640 mm
Min/ Max Height	1455 / 1955 mm	1455 / 1955 mm
Min/Max Length	2085/ 2295 mm	2110/ 2285 mm
Max Width	800 mm	800 mm
S.I.D.	1065 mm	1065 mm

\*Measure obtained without security mechanical block



## TECHNICAL SPECIFICATIONS

Radiological features	Xenox C400	Xenox C300
Generator power in DC current	30kW Single phase voltage 220Vac (with Dual Power) (*)	
Generator operating frequency	200 kHz	
KV range	40 ÷ 125kV (Pulsed and radiography modality)(40 ÷ 120kV) with 0,3-0,6 focal spot x-ray tube)	40 ÷ 120kV
MA RANGE WITH CONTINUOUS FLUOROSCOPY (MEMORY ACQUISITION TO 30 FPS)	Manual: 0.5 ÷ 8 mA step of 0,1mA	
	Automatic I Level: 0.5 ÷ 8 mA step of 0,1mA	
	Automatic II Level: 0.5 ÷ 5,5 mA	
	Automatic III Level: 0.5 ÷ 6,6 mA	
HIGH DOSE PULSED FLUOROSCOPY	Manual: 0.5 ÷ 3,6 mA step of 0,1mA	
MAXIMUM CURRENT (RATE 1,3,6,12,15, 25,25 – DEPENDS FROM MEMORY CONFIGURATION)	Manual: 10 ÷ 50 mA step of 1mA±270°	
	Automatic I Level: 10 ÷ 50 mA "S" 3,5 kW	
	Automatic II Level: 15 mA fixed	
	Automatic III Level: 10 ÷ 25 mA	
FLUOROGRAPHY MA RANGE(RATE 1,3,6,12,15,25 – DEPENDS FROM MEMORY	Automatic IV Level: 10 fixed mA	
	25 ÷ 250 mA (25÷150mA with 0,3-0,6 focal spot x-ray tube)	25 ÷ 200 mA
DIGITAL RADIOGRAPHY MAXIMUM CURRENT	250 mA (150mA with 0,3-0,6 focal spot x-ray tube)	200 mA
RADIOGRAPHY WITH CASSETTES MA RANGE	25 ÷ 300 mA* (25÷200mA** with 0,3-0,6 focal spot x-ray tube)	25 ÷ 300 mA*
RADIOGRAPHY EXPOSURE TIME	0,02 ÷ 3 S	
MIN AND MAX MAS	0,5 ÷ 250 mAs	
TOTAL FILTRATION	≥ 2.7 mm Al / 75kV	

\*30kW at 100kV 300mA 100mSec

\*\*20kW at 100kV 200mA 100mSec

