

High Performance Surgical C-arm
KMC 950

KMC 950 is a versatile Surgical C-ARM X-Ray system and it provides a high image resolution and the most convenience function for the surgery





HIGH PERFORMANCE SURGICAL C-ARM

Compact High Performance C-arm System

It is revolutionary equipment by the degree that will exchange your concept to have had new technology, various functions, an efficient system, a high image resolution during KMC-950 whom realization got at the same time.

X-ray of the high intensity is generated from X-ray tube of the highest HFG in the same class and 150mA that even showed a body vein, and high quality image system is the best ability for imaging transform of the X-ray.

The controller of new adapted TOUCH SCREEN method using a high capacity memory, it is a more easily control the instrument with an abundance menu composition and the control device of the touch method is minimizing the factor of the breakdown with getting rid of a mechanical switch.

APR (Anatomical Programming Radiography) function is easy to be made radiography and ABS (Automatic Brightness System) function is showed you best image when you want.

HIGH PERFORMANCE SURGICAL C-ARM

NEW TECHNOLOGY



High power output with 12.5kw HFG

Using 40kHz invert technology that High Frequency Generator can be generated the high intensity X-ray and has a very high X-ray reproduction so can show the same image at any moment and continuous repetition. In addition, 40kHz Invert Technology makes a compact size and a minimum weight of the whole instrument.

High performance Rotating X-ray Tube

In the same class highest X-ray generating capacity, get more powerful and clear image, 100mA rotating tube is to operate for a long time without a over heating, and can generate a high quality X-ray. To high capacity generating device, get a radiography and possibly get the high quality image due to short radiography time.

SNAP SHOT

The advanced technology of SNAP SHOT function has two good points that a high-resolution image and low dose. It is technology to have let a clear image and 2 called exposure parameter this which is low that it uses the technology that synchronization gets a camera image and the X- ray generation done by.



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MULTIFUNCTIONAL

Laser mark device

The laser indication device which used a laser beam of two direction generated high-brightness can reduce the unnecessary X- ray exposure that it is made operator recognized a X- ray checked point exactly in advance so it can reduce an unnecessary X- ray exposure, chase a position move a position easily when a wide part operation.



Anatomical Programming Radiography (APR)

Setting of X- ray condition, a change, a save are free with the function that a device can set up condition necessary before a radiography , and it consists, and setting parameter changes about setting condition are simply changed so it can be used a several on various condition to each mode.

64 frame memory

It can see the image that image memory to be able to get a storage done is usable by 16-64 frames and uses touch key, and it was easily saved in a image to want in a moment to want again.





DIS (Digital Imaging System)

Digital Imaging System (DIS)

DIS is the advanced image management system which conquers the limit of C-arm's Volatile Image. Fast "search and view" is possible through the database about stored thousands of images and compatible with any PACS system cause of standard DICOM3. Especially, the function of remote control maximizes the operator's convenience.

Feature

- **Database management**
 - Very convenient for the image storage and search by use of Database
 - Database management for patients
 - Comparison before/after surgery
- **Unlimited Image Memory**
 - Traditional volatile image can be unlimitedly stored in Computer Hard drive with just 1 frame memory
 - At least 4,000 sheets of memory
- **Variety of Diagnostic Tools**
 - Zooming, Contrast, Reverse, Rotation
 - Filtering, Edge Enhancement-Image Processing
- **Remote Control**
 - Remote controlling C-arm by Key Boards
- **PACS Connectivity with DICOM3**
 - Doctors can prescribe about the patients
 - 12 words annotation can be possible



Specifications

1. Data Acquisition

- Image Size : 1024 x 1024 (from standard NTSC)
- Pixel Depth : 8 bit
- Automatic Capture by foot switch
- Dual Monitor Operation

2. Image Management

- Database
(Search by Patient ID, Name, Sex, Age, Study Time, Body Part, Description)
- DICOM3 Connectivity
- Networking to PACS

3. Image Processing

- Window Level (Contrast adjustment)
- Zoom
- Flip (horizontally & vertically)
- Rotation
- Filtering
- Edge Enhancement

4. Overlay Object

- Patient, Study & Image Information
- Annotation
- Circle
- Arrow...

5. Image Storage

- More than 4,000 images
- JPEG compression
- Convertible to general file format (BMP, PCX, GIF)

6. Image Display

- 1 x 1, 2 x 2, 3 x 3, 4 x 4, 5 x 5 layout display

7. Computer System

- Pentium IV
- 8 MB Memory AGP graphic board
- 128 MB RAM
- 10 GB HDD
- Windows 98
- Frame Grabber Board.

HIGH PERFORMANCE SURGICAL C-ARM



EFFICIENT SYSTEM

Touch Screen Switch and LCD Display

Touch Screen combined with display system, is much more comfortable of recall the display saved, the choice of function, and more powerful of endurance with improvement of fault-movement and wear of switch used for a long time.



It makes user use a more familiar with giving various interface environment which is TEN KEY function, lamp and alarm.

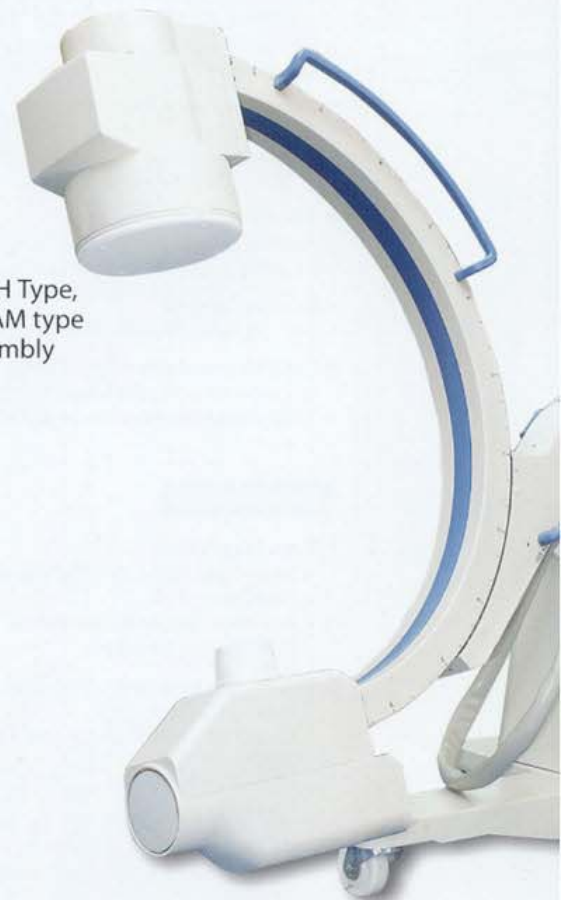
One Touch Locking

All mechanical Locking System is designed to ONE TOUCH Type, so it can be used more easily. The stopper system with CAM type shows a more powerful safety for preventing the disassembly of system by external impact.



Big sized diameter C-ARM

The big sized diameter C-ARM over 1300mm, can be used easily when a surgical operation and be efficient prevention of contamination.

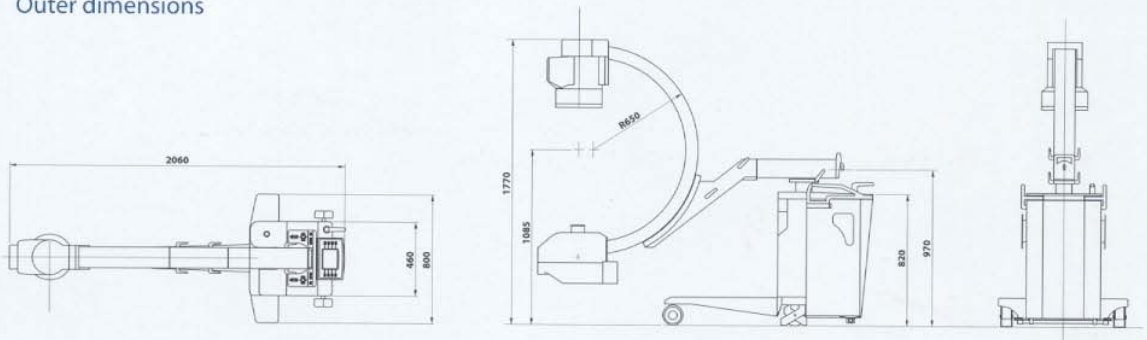


HIGH PERFORMANCE SURGICAL C-ARM

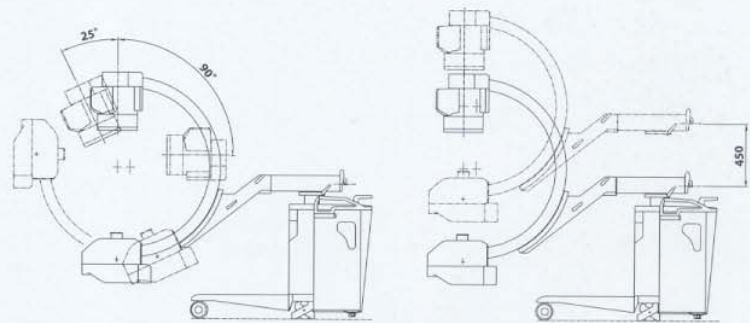


Dimensions (mm)

Outer dimensions

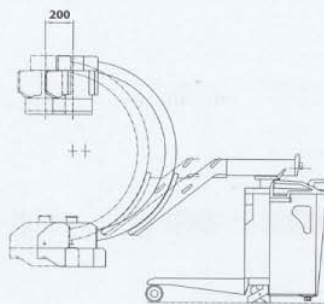


Range of movement

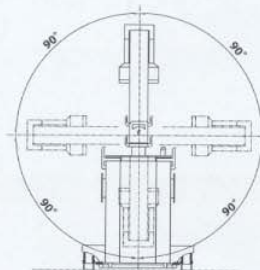


ARCIFORM TRAVEL(115°)

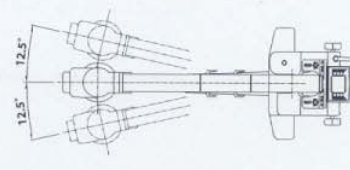
VERTICAL MOVEMENT(450mm)



HORIZONTAL MOVEMENT(200mm)



ROTATION(360°)



PIVOT MOVEMENT(±12.5°)



Specifications

ITEM	SPEC	DETAIL		
TUBE	Type	Rotating		
	Max. kVp	125 kVp		
	Heat capacity (HU)	300,000		
	Focal spot (mm)	0.3 / 0.6		
	Target angle (°)	10		
GENERATOR	Type	High frequency		
	Power output (kW)	12.5 kW		
	Inverting frequency	20 kHz		
	Flu. mod	kV range	40-125 (1 step)	
		mA range	Normal / Multi Fluoro	0.3-5
			SNAP SHOT	8
	Rad. mod	kV range	40-125 (1 step)	
		mA range	20, 100, 150	
		mAs range	0.2-500	
	ABS	Auto Brightness system		
I.I	Type	High Definition type		
	Diameter (Inch)	6"	9" triple-field	
	Resolution (Lp/cm)	52	52, 58, 68	
	Contrast ratio	30 : 1		
TV CAMERA	Type	1/2" CCD Camera		
	Memory	1F, 16F / 64F (Option)		
	Monitor	15" or 17"		
	Scan line	525 / 625 lines (50 / 60 Hz)		
	Image reverse	Hor / Ver		
C-ARM	SID	950 mm		
	Orbital rotation	115° (90° / 25°)		
	Horizontal travel	200 mm		
	Vertical travel	450 mm		
	Panning motion	± 12.5°		
	Pivot rotation	± 180°		
	Reverse position	Yes		
CASSETTE	Cassette holder size	10" x 12" (24 x 30 cm)		
LASER MARK	Cross	Yes		
OPTION	DIS	Digital imaging system (DICOM 3.0)		
	DSA	DIXAS		
POWER	Power requirements	1 Ø, 220V, 50 / 60 Hz		
	Weight (Kgs)	270	300	

Distributor