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Manufacturer:
Philips Electronics India Limited,
(formerly known as Meditronics Healthcare Pvt. Ltd.)
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An ISO 9001:2008 and ISO 13485:2003 certified Company.

Specifications are subject to change without prior notice.
All changes will be in compliance with regulations
governing manufacturing of medical equipment.

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Your comments and feedback are very valuable for us; they help us improve our service offerings. If you have any query or suggestion, please send a mail to IXR.India@philips.com and we will be happy to revert.



Surgico

Mobile C-arm IITV systems - HF series

Surgico 60D HF Surgico 60D HFX Surgico 100R HF

Exceptional image quality • Reliable uptime and service • Value for money



Optional trolley with LCD monitors



PHILIPS
sense and simplicity

Value its value

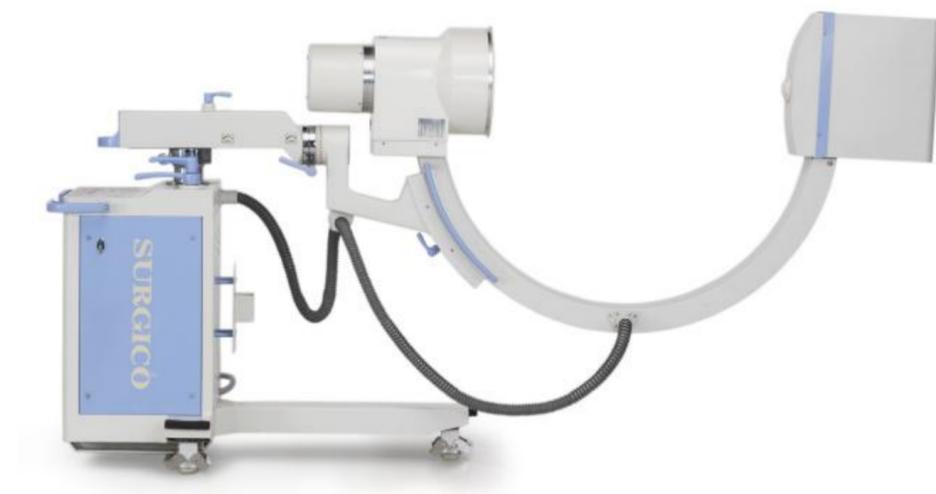
- Surgico HF series is a very popular and proven platform for high frequency mobile surgical C-arm IITV systems. These systems incorporate high frequency (HF) inverter based X-ray generation with excellent image quality and reduced stray radiation to the patient and operator. HF generation at 40 KHz produces ripple free DC high voltage based homogeneous X-ray beam, providing excellent image quality at low radiation.
- These C-arm systems are microprocessor based with a solid state design, assuring high reliability and consistent performance. They have feather touch control panel with LED indication of various parameters with a selection of manual fluoroscopy, automatic dose rate control (ADRC), pulse fluoroscopy and radiography modes.
- The optional open close / parallel shutter collimation with motorised rotation and multi leaf iris collimation controls enable control on primary beam.
- The image intensifiers used are latest series, thin metal input, high resolution devices having low noise, high sensitivity CCD camera with excellent optical coupling by macro lens system for excellent image quality.
- Image memory systems are online multiple image storage devices with last image hold. The stored images are with low signal to noise ratio and recursive filters assuring high definition and low noise images at low radiation. They support rotation for appropriate presentation and orientation of region of interest.
- Monitors used are high resolution suited for medical use, supporting image reversal.
- These C-arm systems are certified by the AERB (Atomic Energy Regulatory Board) for radiation safety. This assures you of radiation safety during operation.

Integration benefits

Philips is committed to making high quality healthcare available for everyone. Pursuing this goal, we acquired Meditronics in March 2009, the Mumbai based manufacturer of diagnostic and interventional X-ray equipments having a home grown but contemporary technology. The offerings from Meditronics have successfully met the stringent expectations of low cost of ownership, high uptime and excellent image quality of the surgery community in India.

Philips thereby now offers the Meditronics range of value high frequency interventional C-arm X-ray systems that translate into an even better experience due to our synergy.

Over 8000 installations and 30 years of Meditronics experience and more than 110 years of Philips experience merge to form outstanding expertise in X-ray solutions.



Go into the details

C-arm stand:

The C-arm stand is ruggedly built with reverse Aluminium C providing clear sterile area. Self balanced and half turn manually locked movements assure easy maneuverability. Wheels with cable guards and individual front and back wheel movement controls enable speedy lateral travel and ease of positioning the region of interest under cramped working conditions. It has actuator driven, smooth and noiseless up down movements.

Focus - I.I. distance	: 920 mm.
Motorised up-down travel	: 430 mm.
Horizontal travel	: 200 mm.
Orbital range	: 115° (-25° to +90°)
Panning	: ± 12.5°
Depth of C	: 620 mm.
Rotational movement	: ± 180°

Manual locking of horizontal, panning, orbital and rotational movements.

Monitor trolley is sturdy and sleek, with specially designed multi core cable and easily detachable multi pin connector.

Image intensifier with monitors:

Image intensifier Choose between 9" triple field and 6" single field of latest series with thin metal input II for unrivaled resolution, low structural noise and high conversion factor of at least 240 at center resolution 52 lp/cm with 9" view field. Center resolution 54 lp/cm with 6" view field.

CCD camera High resolution C.C.D. camera specially designed to operate with image intensifier at low input of 0.3 Lux output, 625 lines/field.

Monitors 2 nos. 17" high resolution monitors with 9" II, 15 MHz frequency response and image reversal capabilities mounted on trolley with storage for image memory and stabilizer. Optionally, 32" wide screen LCD monitor available. 2 nos. 15" high resolution monitors supplied with 6" II.

Generator	Surgico 60D HF / 60D HFX	Surgico 100R HF
Output	2.5 KW, 40 KHz high frequency with less than 1% ripple factor.	5 KW, 40 KHz high frequency with less than 1% ripple factor.
Modes	Manual, pulsed fluoro, auto dose rate control (ADRC) and radiography.	Manual, pulsed fluoro, auto dose rate control (ADRC), radiography and high definition cine with DSA.
Fluoroscopy	0.1 to 4mA, 40 to 110 KV.	0.1 to 4mA, 40 to 110 KV. Upto 10mA for DSA.
Fluoro timer	Digital totaliser timer for 5 minutes (300 seconds).	Digital totaliser timer for 5 minutes (300 seconds).
Radiography	1 to 200 mAs, 40 to 110 KV.	1 to 200 mAs, 40 to 110 KV.
Display	LED display for fluoroscopy, KV, mA, timer radiography mAs, X-ray on and thermal.	LED display for fluoroscopy, KV, mA, timer radiography mAs, X-ray on and thermal.
Image orientation	Horizontal and vertical image reversal and rotation.	Horizontal and vertical image reversal and rotation.
Image rotation	± 180° image rotation.	± 180° image rotation
X-ray tube	Double focus stationary anode tube with small focus 0.5mm x 0.5mm, large focus 1.5mm x 1.5mm.	Double focus rotating anode tube with small focus 0.3mm, large focus 0.6 mm.
Heat storage capacity	30 KJ.	150 KJ.
Inherent filtration	0.8 mm Al equivalent.	2 mm Al equivalent.
Power input	Single phase 230 volts, 15 Amps, 50 Hz.	Single phase 230 volts, 15 Amps., 50 Hz.

Surgico 60D HFX



The technical specifications of Surgico 60D HFX and Surgico 60D HF are identical. However, Surgico 60D HFX has a different controller as shown above and supports the following additional features -

- It has five fluoroscopy modes i.e. Manual, ADRC, pulse, semi auto, snap shot and one radiography mode. ADRC allows auto dose regulation control fluoroscopy, which optimizes image density and contrast irrespective of the angle of view. This ensures excellent and consistent image quality throughout the procedure. Pulse fluoroscopy allows imaging with reduced skin dose. In the semi auto mode, optimum image quality is maintained by enabling changes in mA in sync to match changes in KV. The snapshot mode grabs high quality images using high dose fluoroscopy, ideal for interventional procedures.
- It has a large LCD display for viewing various parameters and errors.
- Auto error detection - Error indications for power supply, inverter, filament and rotor error, monoblock and tube hot are displayed prominently on LCD.
- Auto calibration for fluoroscopy provided.

Memory systems



XC-VPC

1. XC-VPC : A 100 image permanent storage memory with PC interface. Images can be saved on USB pen drive.
2. Digimem-3000 : PC based, supports storage of upto 105000 images. Cine loops supported.
3. Digimem-5000 : PC based DICOM memory, supports storage of upto 105000 images. Cine loops supported.
4. Digimem-7000 : PC based offline DICOM compliant DSA system supports storage of upto 105000 images. Cine loops supported.
5. DIXAS : A PC based online DICOM compliant DSA system supports storage of upto 105000 images. Cine loops supported.

Clinical output

