



## **OMNISCOP CR9**

### **DIGITAL SURGICAL MOBILE "C" ARM.**

***OMNISCOP C, is "C" Arm surgical mobile** It is design to offer the maximum flexibility and productivity to the clinic.*

***OMNISCOP C, is "C" Arm surgical mobile** system is a multifunctional system that provides the solutions that the new Clinics and Hospital demand.*

*The system has the most innovative image acquisition technology, with TV Cain, with sensor CCD, an image intensifying of 9", with the image control car, that permits an operability and exceptional manoeuvrability in anywhere of the Hospital areas, surgical rooms, intensive care, emergency etc.*

### **CHARACTERISTICS:**

#### **"C" ARM.**

- "C" Arm depth, 660 mm.
- Free space, 778 mm.
- S.I.D. 987 mm.
- Orbital movement 115°
- "C" Arm rotation +/-200°
- Horizontal travel 200 mm.
- Motorize vertical travel 400 mm.
- "Wig Wag" scanning +/- 12°

### **GENERATOR**

- High frequency single-phase generator 40 KHz. 230 V.  $\pm$  10% 50/60 Hz.
- Maximum Power 2,8 KW.
- Fluoroscopy Kvp range from 40 to 120 Kvp.

- *Fluoroscopy mA range from 0,2 to 4 mA.*
- *One pulse fluoroscopy mode mA range from 0,4 to 8 mA.*
- *Radiographic Kvp range from 40 to 120.KVp*
- *Radiographic mA range, from 23.3 to 65 mA*
- *Radiographic mAs range, from 1 tp 250 mAs.*
- *Automatic bright control ABS.*
- *Modes of operation*
  - *Continuous fluoroscopy*
  - *Pulsed fluoroscopy*
  - *One pulse fluoroscopy*
  - *Radiographic mode for film screen radiography.*
- *Hand switch*
- *Foot switch*

## ***X ray tube***

- *Rotary anode.*
- *Anode target angle 10°*
- *Focal spots.*
  - *Small focus, 0,3 mm. for fluoroscopy*
  - *Large focus, 0,6 mm. for radiographic*
- *Anode heat capacity 200.000 H.U.*
- *Anode cooling rate 24.000 H.U./min.*
- *Monoblok heat capacity 810.000 H.U.*
- *Iris and blade collimator*

## ***Imaging System 9"***

- *Three mode Imaging Intensifier 9"; 6" and 4".*
- *Conversion factor. 240 Cd/m<sup>2</sup>/mR/seg.*
- *Spatial resolution 4,8 lp/mm., 5,6lp/mm and 6,4 lp/mm.*
- *Contras ratio. 23:1(9"), 25:1(6") and 30:1 (4")*
- *Quantum detection efficiency QDE. 65% at 59,5 KeV.*
- *Fluoroscopy grid 8:1 de 40 l/cm.*
- *CCD TV camera*
  - *CCD matrix 752X582 50HZ, 768X494 60Hz*
  - *Bandwidth 14 MHz.*
  - *Relation signal/noise 40dB at 0.12 lux*
  - *Scanning lines at 50 Hz. 625 lines (525 lines 60 Hz.)*
  - *360° image rotation*
- *One 17" flicker free TV monitors with mobile trolley.*
  - *Bandwidth 40 MHz*
  - *Scanning lines at 50Hz 625 lines. (525 lines 60 Hz.)*

## ***DIGITAL IMAGING SYSTEM FOR INTERVENTIONAL APPLICATIONS 48MI-VAS.***

- *Second 17" flicker free TV. Monitor 100Hz as a reference monitor.*
- *Infrared remote control*
- *Alphanumeric key board*
- *Four functions footswitch*

- Virtual collimator. Image positioning without X-ray, using a virtual image displayed on the TV. Monitor.
- 1, 4, and 16 images. Multi-images display on one TV. Monitor.
- Image format. 576x576x12 bits (Working monitor)
- A/D converter 10 bits.
- Digital image reverse left/right
- 1, 3 and 6 frame/sec. Automatic images storing
- Hard disc memory 18GB., 36.000 frames
- RAM memory 48 frame.
- Last image hold (L.I.H.)
- Patients directory
- Text editing
- Real time substation
- Road mapping
- Max opacification.
- Image Zoom x2
- Contrast and edge enhancement.
- Noise reduction with motion detection algorithms
- Grey scale inversion.
- Cine loop display

### ***B/W VIDEO PRINTER***

- Medical video printer SONY UP960CE.
- 256 levels of grey.
- Thermal head with 1280 points.
- Maximum printer size 243x181 mm.

*Digital Surgical Mobile*  
**“C” Arm with Digital imaging System**  
MODEL OMNISCOP CR9

|                 |   |
|-----------------|---|
| <i>ARCS-9CR</i> | <i>High frequency Generator, Image Intensifier 9’’, CCD camera, LIH, monitor 17’’, rotadet anode 0,3/0,6 mm</i> |
| <i>48MI-VAS</i> | <i>Hard disk 18GB: 36.000 images, Memory 48 images, 2<sup>nd</sup> monitor, matrix 576 x 576</i>                |
| <i>UP960CE</i>  | <i>Video printer b/w SONY UP 960CE</i>  |

|   |                     |
|---|---------------------|
| <i>Medical video recorder interface for Panasonic AG 7350</i> | <i>634,00 Euros</i> |
| <i>Laser light localiser</i>                                  | <i>560,00 Euros</i> |
| <i>One set of sterile drapes for 9” I.I.</i>                  | <i>156,00 Euros</i> |
| <i>9” I.I. 24 x 30 cm cassette holder</i>                     | <i>214,00 Euros</i> |