```
WAREHOUSE/RECEIVING

V.A. Medical Center

1100 TUNNEL ROAD

ASHEVILLE, NC



    637-B50014
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Qty	Item Description
1	**SIREMOBIL Compact L 23 cm, 60 Hz**

Compact, economic and high-performance mobile X-ray image intensifier system with digital image processing for fluoroscopy and radiography. The system is prepared for the connection of a video printer. It is possible to integrate different digital image memories. SIREPHOS single-tank high-frequency generator with X-ray tube SR 110; SIRECON 23-2R;

Power line connection: 100V, 120V, 127V, 230V, 240V +/-10%, 50 Hz.

Qty	Item Description
1	**Memoskop CX 200**

Digital image processing system with disk storage for 200 images

Qty	Item Description
1	**DICOM**

Support of DICOM services (Storage Send, Storage Commitment, Print and Worklist)

Qty	Item Description
1	**CD / RW**

CD / RW DICOM write function:

For digital image storage on CD for offline data exchange in DICOM-3 format

DICOM Viewer for viewing and postprocessing images on PC is automatically included.

Qty	Item Description
1	**Keyboard, Universal**

Qty	Item Description
1	**2x 18in b/w TFT displays**

Two high brightness TFT displays for live and reference image display.

Qty	Item Description
1	**Sony Printer UP 990**

Thermal printer for economical and fast image documentation (gray-scale printing) on thermal paper and thermal film

- Print speed: 8 seconds per image
- Cost per image: € 0.35 (paper) € 0.80 (film)
- Series UPP-210 printer paper
- No further consumable material

Qty	Item Description
1	**Installation kit f. Printer**

Installation kit for printer # SMC for connecting Sony UP D 897, UP 970, and 990 printers

Qty	Item Description
1	**Integrated I.I. laser aimer # SMC**

I.I. laser aimer integrated into the image intensifier housing for targeted positioning without radiation with the single tank in the undertable position, remote-controllable via the C-arm control panel.

The integrated I.I. laser aimer offers considerable application advantages in particular in conjunction with the surgical navigation system, since there are no mechanical interferences

Qty	Item Description
	with the attachable I.I. marker ring from the navigation provider, the weight on the I.I. is reduced and sterile covers can be attached easier.

Dose measure.chamber kit #SM.

Qty: 1

System-integrated dose measuring chamber for displaying the dose area product or air kerma value.

The cumulative dose area product is displayed for the current patient and saved under the patient data.

For each patient a cumulative value is saved in the patient database.

Alternatively: Display of air kerma values

DHHS Spacer for SMC

Qty: 1

Addit Set Accompanying Documents

Qty: 1

Additional Set of operator manuals

Qty: 1

Initial onsite trng 24 hrs

Qty: 1

Up to (24) hours of on-site clinical education training, scheduled consecutively during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist. Uptime Clinical Education phone support is provided during the warranty period for specified posted hours. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.

C-Arm drape/peel-away (10)

Qty: 1

Sample case of c-arm drapes (quantity of 10) for the Siemens C-Arms product portfolio. The drape was designed by Siemens and has a pull-away section to accommodate the outer section of the C-arm to allow arm movement while maintaining a sterile environment.

Drapes are individually packaged and sterile.

Drape reorders will be sold in case of 20 and use Siemens part CF31540.

One complimentary biomedical tuition is included with the purchase of this system. This training must be completed before the end of the warranty period.

Offset Part 14404888 additional set of operator manuals

Offset Part 14404887 additional set of accompanying Documents

Description

General product features:

The mobile X-ray image intensifier system is a synonym for clinical diversity and is especially suitable for the application in operating rooms, accident wards, examination and plaster rooms and in veterinary medicine. The immersion depth of 73cm and the wide orbital rotation of the C-arm of 130 (-40/+90), as well as the source-image distance of 100cm and motorized height adjustment of the C-arm system by 45cm allow to support the entire range of X-ray-based applications.

The space-saving design and intuitive operation of the system fulfill the demands placed on today's operating rooms and ergonomics.
The simple and effortless maneuverability and positioning of the unit are supported by optimized handles and the counterbalanced C-arm movements which can be locked in any position desired. The C-arm system is provided with cable deflectors on all wheels.

The monitor trolley allows the attachment of 2 TFT displays and the integration of a Memoskop CX at different configuration levels. For image documentation, a video printer can be installed. Access to the patient data on the unit can be protected using the key switch on the monitor cart.

Technical product features:

The SIREPHOS single-tank high-frequency generator with 15 kHz to 30kHz inverter frequency and automatic power line matching, with single focus X-ray tube SR 110 and nominal focus 0.6 allows for high resolution in fluoroscopy and radiography. A special tube cooling permits extremely long fluoroscopic times without interruption. The motorized remote-controlled collimator system with iris diaphragm for centered collimation and semi-transparent slot diaphragm for symmetric collimation allows unlimited rotation.

The SIRECON 23-2R X-ray image intensifier with 23 cm/15 cm format switchover based on metal-enamel technology contains a Pb 8/40 circular grid. The TV system with CMOS sensor and digital 1024 x 1024 ($1K^2$) imaging chain enables digital image rotation without radiation.

The system is equipped with SIREMATIC, the process-controlled online dose rate control with selectable curve (six different curves), for adaptation to the specific medical requirement. Used together with the high-frequency generator, the SIREMATIC ensures minimum dose to both the staff and the patient.

All imaging components are ideally matched for system integrity, thus ensuring optimum image quality with high penetration. Radiation is released by the handswitch or footswitch. Radiation ON is indicated with warning lights at both the system and the monitor cart.

Customer-specific programs for all operating modes in a kV range from 40kV to 110kV:
Fluoroscopy: 0.2mA to 8.9mA
Pulsed fluoroscopy: 0.2mA to 8.9mA
Digital radiography: 0.2mA to 12.2mA
Exposure: max. 20mA (1.4kW)

Power line connection:
100V, 120V, 127V, 230V, 240V +/-10%, 50Hz.

In the Federal Republic of Germany, the C-arm system is approved for application classes V and VI of the regulations of the Federal Association of Public Health Plan Doctors.

Digital online imaging system with image processing, storage and archiving in 1K²

Operating modes:
Fluoroscopy with Last Image Hold (LIH)

Description

Pulsed fluoroscopy with Last Image Hold
Digital radiography

Selection of 5 customer-specific organ programs for each operating mode

Transfer rate: up to 6 frames per second with storage on hard disk

Image processing:
- Recursive filtering or summation for noise reduction
- Motion-dependent filtering for noise reduction
- Auto-window technique
- Spatial frequency filtration for edge enhanced image display
- Lookup table for contrast enhancement
- Contrast gain
- Digital image rotation of the LIH without radiation
- Image inversion and image mirroring
- Positive/negative image display
- Electronic shutters, horizontal and vertical
- Zoom/Roam

CARE Profile:
Display and movement of the iris and semi-transparent slot diaphragm on the LIH without radiation

Digital image memory:
- for up to 200 images
- 1024 x 1024 pixel memory matrix
- Image protection feature against overwriting and deletion
- Survey bar (8x1) for fast orientation and easy documentation
- Auto loop for the Fluoroscopy and Pulsed Fluoroscopy modes

USB-port:
For exporting single images in JPG and BMP format

CD / R drive for loading images in DICOM-3 format

DICOM Storage Send:
for sending images in a clinical network (PACS) based on the DICOM 3.0 standard.

DICOM Storage Commitment:
Archiving confirmation from the image archive.

DICOM Print:
for printing in the network, on a DICOM-capable camera or a DICOM-capable printer

DICOM Worklist Management:
for retrieving patient/examination data from an independent HIS/RIS system, including HIS/RIS queries via special search criteria

Note on DICOM interface(s):
The description in the "DICOM Conformance Statement" is the only binding criteria for the functionality of the DICOM interfaces. It can be retrieved from the Internet.

Alphanumeric keyboard to enter patient and facility identification for image documentation.

High brightness TFT displays for displaying live and reference images.

Technical specs:

Description
- Monitor size: 19" (48 cm)   - Resolution: 1280 x 1024 pixels   - Maximum brightness <= 1000 cd/m^2 - Grayscale: 256   - Anti-glare coating
For gray-scale printing on thermal paper and thermal film   - Resolution: 325 dpi   - Image format: 198 x 145 mm (digital)   - Gray-scale levels: 256   - Print speed: 8 seconds per image   - Dimensions: 316 x 132.5 x 305 mm (h x w x l).   - Weight: 8 kg   - Digital interface via USB (2.0)   - Cost per image: € 0.35 (paper) € 0.80 (film)   - Series UPP-210 printer paper   - No further consumable material
Display of Air Kerma Rate (AKR) and cumulative air kerma value for conditions of free-in-air irradiation in a reference location. The accumulated air kerma is stored to the data of each patient.