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V.A. Medical Center
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MILWAUKEE, WI 53295

REQUISITION: 695-B88058

Trade-in

- 1) GE OEC 9900 ELITE, Serial Number ES-0884, Acq Date 5/26/2009
- 2) Arcadis Avantic, Serial Number 33063, Acq Date 9/13/2012

Qty	Item Description
1	<p>Cios Fusion</p> <p>Cios Fusion is a compact, mobile C-arm system with a dynamic flat detector and touch user interface for fluoroscopy and acquiring single images.</p> <p>The mobile system is designed for use in cardiac/vascular surgery, gastroenterology, urology, emergency surgery, orthopedics and general surgery.</p>
1	<p>Flat Detector 30x30</p> <p>High-resolution, dynamic flat panel detector with indirect converter technology (amorphous silicon) having a size of 30 cm x 30 cm, with a matrix of 1536 x 1536 pixels.</p>
1	<p>CAREMAX</p> <p>Integrated laser aimer on the detector which transmits a crosshair laser.</p> <p>System-integrated dose measuring chamber for displaying the dose area product or air kerma value.</p> <p>The cumulative dose area product is displayed for the current patient and saved under the patient data.</p> <p>The cumulated dose is automatically transferred to a radiation summary report and can be retrieved at any time.</p> <p>For each patient a cumulative value is saved in the patient database.</p> <p>Alternatively: Display of air kerma values</p>
1	<p>Vascular Premium PLUS</p> <p>Subtraction angiography to display vessels as a subtraction series or roadmap, with extended function for postprocessing of images and scenes in Subtraction/Roadmap mode, including pixel shift, remask, landmark, dual-channel function, live graphic overlay.</p> <p>Contrast medium: iodine or CO2.</p> <p>2D measuring function: measurement of angles and distances.</p> <p>Remote control including holder: remote control unit with touchscreen for operating the C-arm from the sterile area. Includes a holder for attachment to the side of the OR table (RoW and USA).</p>

Qt	Item Description
	Stenosis quantification program.
	Unidirectional trigger output for connecting a contrast medium injector. The trigger interface is compatible with the following injectors: MEDTRON Accutron HP, Pedestal. Bayer (Medrad): Arterion Mark 7, Mark V ProVis
1	Mobi.workstation w.Flex pl. column Mobile workstation including monitor column with motorized height adjustment and 240°vertically rotatable monitors (-30°to +210°) for flexible positioning of the TFT displays with integrated cable routing and fold-up function for transport and park position.
1	2x High Bright TFT monitor Two 19" color TFT displays with high luminance for live and reference image display.
1	Dual DVI Video Splitter dual Connection for an external live monitor (monitor A) and an external reference monitor (monitor B) via DVI connection.
1	DICOM Send/Storage Commitment (StC) Digital, unidirectional image transfer of single images or complete folders to a network in DICOM format. Feedback from the image archive (Storage Commitment).
1	DICOM Print For sending and printing of images by means of a virtual filmsheet to a DICOM laser camera or printer. Provision of DICOM Print service for connection to a laser camera or a network printer (postscript-capable).
1	DICOM Worklist / MPPS Import of patient/examination data from an external RIS/HIS patient management system with DICOM MWL (Modality Worklist) as well as feedback on the examination status with DICOM MPPS (Modality Performed Procedure Step).
1	Standard foot switch Standard foot switch for radiation release and storing.
1	Skin Spacer Single-tank spacer.
1	USA / Canada WLAN client WLAN Client module with Ethernet connection for wireless transmission of DICOM image data, e.g. to a PACS (Picture Archiving and Communication System).
1	Addit. set accompanying documents S Additional set of documents
1	Addit. set of operator manuals S Additional set of operator manuals
1	Initial onsite trng 24 hrs 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.

Qt

Item Description

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Cios Fusion Complimentary Biomed Training

This educational offering includes system training tuition for 1 clinical engineering professional on the CIOS Alpha, Connect, or Fusion system, and the syngo multimodality workstation as applicable. The training curriculum depends on and is limited to the system purchased and may include multiple courses including classroom training in USA or an international site, and/or virtual and web-based training. Additional modality basics training may be required as a prerequisite to these courses and must be purchased separately. This system training includes a 15% discount. Travel and lodging are not included. This educational offering must be completed by the later of (12) months from purchase or install end date; if training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund. This forfeiture does not apply to Federal government organizations.

Offset Part 14455207 Addit. set accompanying documents S

Offset Part 14455208 Addit. set of operator manuals S

Offset Part SU_INITIAL_24 Initial onsite trng 24 hrs (

Offset Cios FusionComplimentary Biomed Training ()

Detailed Technical Specifications

Description

The mobile C-arm system has a high-resolution digital 1536k x 1536k imaging system with a continuous digital image chain and touch user interface. The FD-based system with three image input formats and a high-voltage generator guarantees optimum fluoroscopic images. An acquisition speed of up to 15 P/s can be achieved during pulsed fluoroscopy; in single-image mode, an output of 2.3 kW is possible.

Intelligent Dose Efficiency Algorithm (IDEAL) is an intelligent dose management system developed specifically for the Cios C-arm family. It performs an ongoing analysis of each individual detector pixel to provide continual assurance of optimum dose management. This ensures at all times an ideal balance between image quality and dose. Contrast and brightness are optimized automatically.

Furthermore, the ergonomic and functionally designed user interface and software support an optimal workflow in the OR.

A hard disk with a storage capacity of up to 150,000 images, a USB interface, and a DVD-R/CD-ROM read/write drive, including DICOM 3.0 offline media format, enable flexible data management. Loading and display of images from the same modality or other modalities (CT, MR, XA, US). DICOM 3.0 services can be used via the integrated DICOM 3.0 interface. The mobile workstation is optionally available with the Flex monitor column (with 240° vertically swiveling monitors) Flex Plus (motorized height adjustment, with 240° vertically swiveling monitors as well as TFT displays which can be folded into one another for easier transport and secure storage). The monitor columns have integrated cable routing for flexible positioning of the TFT displays. The uninterruptible power supply (UPS) ensures the highest level of data security. Efficiency and flexibility are ensured by upgrade options which allow the system to meet long-term requirements.

The compact, weight-balanced basic unit allows high operating convenience. It can be easily positioned in a tight area. In addition, all track rollers are equipped with cable deflectors. The C-arm was designed for maximum projection angles and offers optimum access to the patient as well as flexible applications in the OR. (Immersion depth: 73 cm, free space between cone and FD: 82 cm, FD-focal distance: 102 cm, orbital movement 150° (- 40°; + 110°), angulation ± 225°, swivel range ± 12°, horizontal movement 20 cm). It has motorized height adjustment (43 cm).

The color-coded mechanical brakes and scales enable rapid and safe positioning of the C-arm.

An easily accessible handle on the flat detector intensifier allows easy positioning from within the sterile area without restricting patient access.

The easy to clean touch operating panel is connected to the C-arm via the cross slide and has the same function as the operating panel on the mobile workstation.

In addition, the following functions can be controlled:

- Vertical movement
- Emergency STOP

The digital flat panel detector enables distortion-free imaging with a high spatial resolution and excellent contrast.

The dynamic flat panel detector with integrated removable grid is especially suitable for fulfilling the requirements

Description

Description

of general and interventional applications.

Semi-conductor material: **Amorphous silicon (a-Si) with Csl-scintillator**

- Size 30 cm x 30 cm
- Pixel size: 194 μm
- Matrix size: 1536 x 1536 pixels
- Acquisition depth: 16 bits

Usable input formats:

Mag 0: 30 cm x 30 cm

Mag 1: 20 cm x 20 cm

Mag 2: 15 cm x 15 cm

Integrated laser aimer on the detector for precise, radiation-free positioning with tube in under-the-table position.

Resolution of the dose area product and air kerma value display

- Display of the dose area product in 0.01 cGycm²
- Display of air kerma in 0.1 cGycm²
- Display of the cumulated air kerma value in 0.1 mGy
The cumulated air kerma value is identified by a preceding dot.

Depending on country-specific regulations, the display can be changed by SIEMENS Service from the dose area product to the air kerma value and the cumulated air kerma value.

Vascular Software Premium:

Image acquisition and subtraction angiography (SUB) and roadmap (ROAD).

Acquisition rates of 0.5 to 30 f/s, storage frequency is configurable.

Automatic request for contrast medium injection following acquisition of the mask image. Display of dynamic changes during the contrast medium flow.

Adding of the anatomical background (landmark) from 0% to 100%. Simultaneous display of the corresponding precontrast images on the right monitor. Peak opacification for iodine contrast (MaxOpac) and CO₂ contrast (MinOpac).

Recalculation of contrast-medium-filled image through manual adjustment of the corresponding subtraction series.

Ability to reuse one of the contrast-filled images generated in a study for roadmapping.

Compared to the regular vessel visualization software, the premium package offers additional functions to improve the quality of contrast-filled images and to reduce the amount of contrast medium administered.

Description

Additional processing functions:

- Pixel shift
- Remask
- Live graphic overlay (e.g. draw AAA line)
- Reuse of contrast-filled image
- Roadmap technique for easy catheter guidance, dilatation, and stent implantation

2D measuring function with integrated calibration for determining the scale for the distances measured in the X-ray image. When measuring angles, the sides of an angle can be changed independently of one another. Complementary angles (difference of 180° - measured angle) can be displayed by changing the angle direction.

C-arm functions, which previously could be controlled only from the non-sterile area, can now be controlled from within the sterile field using the remote control unit.

This includes all functions of the touch control panels as well as:

- Control of vertical movement
- Emergency STOP

The remote control unit enclosed in sterile packaging is attached directly to the OR table rails by means of a special holder. The robust system cable connection ensures reliable control.

Stenosis quantification of vessels. Automatic vessel analysis and display of the minimum value in relation to a defined reference value. Determination of geometric and densitometric values.

The C-arm system waits for the injector's 'armed' signal and then sends a 'rad on' (inject signal) when radiation is released. By delaying the start of injection, an optimum start of the contrast medium administration can be achieved after creating the mask image.

The use of a contrast medium injector can result in a better image quality during subtraction angiography, since the stable flow rate of the contrast medium ensures homogeneous contrast enhancement during the entire examination. This can also reduce the patient's exposure to contrast medium and radiation.

The mobile workstation is equipped with a central locking brake and cable deflectors on all castors as well as an easy-to-clean, ergonomically designed touch-based control panel and optical mouse. With a storage compartment for the mouse and a mouse pad surfaces which is suitable for both left- and right-handers. Flexible vertical positioning of the TFT displays irrespective of the trolley position through freely rotatable monitor column with integrated cable routing

- Motorized height adjustment for adaptation to the viewing angle depending on the examiner's height and position
- Reduction of ambient light interference through optimized viewing angle
- 180 degree rotating monitor column combined with a cable-free mobile workstation allows for optimal patient-side positioning of the monitors.

TFT displays fold in towards each other for easier maneuverability during transport and to protect the monitors

Description

when they are not in use.

With approx. 16 million display colors and anti-glare coating for displaying live and reference images.

- Large horizontal and vertical viewing angles of 178° each
- Screen size 19"/48 cm
- Graphic display 1280 x 1024 pixels
- Typical/Max. brightness 400/650 typ. cd/m²
- Contrast ratio (typical) 900:1
- Backlight LED technology

2x simple connection via DVI sockets.

- The displays or monitors used must be compatible with the SXGA standard 1280 x 1024 at 60 Hz
- No galvanic separation, therefore the connected monitors must comply with IEC 60601-1-1

Note concerning DICOM interface(s)

The description in the "DICOM Conformance Statement" downloadable from the Internet is exclusively binding for the functionality of the DICOM interface(s).

Functionalities across system borders with/between partner systems require explicit validation, since the interpretation of the interface by the partner/target system is not part of the product's responsibility. Such validation can be done on a time and material basis.

A modification of the interface that might be required is not included in the offer; e.g. for the rare case, that available configurations are not sufficient.

With regard to expenses for interface configurations that might be required, the agreements on maintenance/service of the product apply

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The following functions can be performed with the standard foot switch:

Description

Pedal functions

- Radiation release for fluoroscopy
- Radiation release for selected operating modes (single image and depending on the options SUB, ROAD)
- Alternatively: store (LIH, LSH)

For increasing the minimum source-skin distance to 30 cm.

WLAN Client module with Ethernet connection for wireless transmission of DICOM image data, e.g. to a PACS (Picture Archiving and Communication System).

- Supported WLAN standards: 802.11 a/b/e/g/h/i/n
- Supported Frequency bands: 2.4 / 5 GHz
- Security / Authentication: 802.11 i, 802.1x, WPA/WPA2. WPA2 Enterprise supplicants EAP-TLS, EAP-TTLS (MSCHAPv2), EAP-PEAP (MSCHAPv2). Supports certificates and private key upload / storage (multiple)
- Data encryption: TKIP, AES
- Supports DHCP-client

This module follows United States/Canada regulations regarding available frequencies.