

SHIP TO:  
B23 Warehouse B80009  
V.A. Medical Center  
17273 State Route 104  
Chillicothe, OH 45601

P.O.# 538-B80009

Qty	Item Description
1	<b>Cios Fusion</b> Cios Fusion is a compact, mobile C-arm system with a dynamic flat detector and touch user interface for fluoroscopy and acquiring single images.  The mobile system is designed for use in cardiac/vascular surgery, gastroenterology, urology, emergency surgery, orthopedics and general surgery.
1	<b>Flat Detector 30x30</b> 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.
1	<b>Mobi.workstation w.Flex pl. column</b> 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	<b>2x High Bright TFT monitor</b> Two 19" color TFT displays with high luminance for live and reference image display.
1	<b>DICOM Send/Storage Commitment (StC)</b> Digital, unidirectional image transfer of single images or complete folders to a network in DICOM format. Feedback from the image archive (Storage Commitment).
1	<b>DICOM Print</b> 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	<b>Standard foot switch</b> Standard foot switch for radiation release and storing.
1	<b>Skin Spacer</b> Single-tank spacer.
1	<b>Dose measure. chamber</b> System-integrated dose measuring chamber for displaying the dose area product or air kerma value.

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	<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> <p>Dose Area Product - meter is mandatory for IEC 3rd edition and US (CFR 1020.32) and country specific rules.</p> <p>(Not mandatory for Cios Select S1 and S3 in China).</p>
1	<p><b>Addit. set accompanying documents S</b></p> <p>Additional set of documents</p>
1	<p><b>Addit. set of operator manuals S</b></p> <p>Additional set of operator manuals</p>
1	<p><b>Initial onsite trng 24 hrs</b></p> <p>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.</p>
1	<p><b>Cios Fusion Complimentary Biomed Training</b></p>

Offset Cios Fusion Complimentary Biomed Training

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 )

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## OPTIONS

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Qty	Item Description
1	<b>Int. detector laser light localizer</b> Integrated laser aimer on the detector which transmits a crosshair laser.
1	<b>DICOM Worklist / MPPS</b> 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	<b>Printer installation kit</b> Installation kit for connecting Sony UP D 89x, UP 97x, and 99x printers
1	<b>USA / Canada WLAN client</b> WLAN Client module with Ethernet connection for wireless transmission of DICOM image data, e.g. to a PACS (Picture Archiving and Communication System).
1	<b>IDI Table 100-4 w/18x80 top</b>
1	<b>IDI Aspect Armboard</b>
1	<b>IDI Aspect clamp-on rail</b>
1	<b>IDI Aspect Armboard</b>
1	<b>IDI Aspect clamp-on rail</b>
1	<b>Sony UP971AD printer - paper only</b> Black & White Hybrid Graphic Printer.  The UP-971AD is a black and white HYBRID graphic printer that supports both analog and digital applications. The UP-971AD has both an analog video input as well as a USB 2.0 high speed interface for digital printing. The UP-971AD offers a resolution of 325 dpi and print speed of about 8 seconds. * Dimensions: 12.4 x 5.2 x 12.0 inches. * Print Media: 210mm width roll. * Print Size: 10.5 x 7.87 inches (Digital/MAX). * Printing Method: Thermal Printing. * Resolution: 325 dpi.  Includes one year warranty through Sony.

# 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

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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

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 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/m<sup>2</sup>
- Contrast ratio (typical) 900:1
- Backlight LED technology

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

## Description

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:

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.

Resolution of the dose area product and air kerma value display

- Display of the dose area product in 0.01 cGycm<sup>2</sup>
- Display of air kerma in 0.1 cGycm<sup>2</sup>
- 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.

For precise, radiation-free positioning with tube in undertable position.

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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.

IDI's Aspect 100-4 Mobile Imaging Table with Motorized Elevation and Manual 4-way Tabletop Float  
Includes tabletop pad, panning hand control, patient restraint straps, ID410 tabletop width extender board (lateral arms support, for 18" wide tabletop version only). Includes 3 year parts and one year labor warranty provided by Image Diagnostics Inc.

Elevation (tabletop to floor): 28 in – 37.7 in

Trendelenburg Tilt: N/A

Longitudinal Float: 40 in.

Transverse Float: 10 in.

Tabletop Size: 18 in / 30 in x 80 in

Imaging Area: 72 in

Patient Capacity: 450 lbs

Table Weight: 385 lbs

Includes the following:

- X100-517: Tabletop, 18" (457mm)/30" (711mm) x 80" (2032mm) tabletop.
- X100-1780: Tabletop pad, 2" (51mm) thick, for 18" (457mm)/30" (711mm) x 80 tabletop.
- A100-435: Tabletop width extender board (lateral arms support) for 18" (457mm) wide tabletop. /24" (610mm) X 84" (2134mm)
- A270-126 Panning hand control.
- C000-0328: PaWent restraint straps.

Optional Accessories:

Radiolucent Armboard – IDIA310059

VAB Armboard – IDIA1002244

Radiation Shield – IDIA610051

Catheter Tray – IDIA100814

Armboard for IDI Aspect Mobile Imaging Tables. Phenolic, rail mounted, includes pad and strap.  
(Requires clamp-on accessory rail IDIA1001007 on all IDI table models that do not have siderails)

Clamp-on accessory rail for IDI Aspect Mobile Imaging Tables. 3/8 in x 1-1/8 in rail.

Armboard for IDI Aspect Mobile Imaging Tables. Phenolic, rail mounted, includes pad and strap.  
(Requires clamp-on accessory rail IDIA1001007 on all IDI table models that do not have siderails)

<b>Description</b>
Clamp-on accessory rail for IDI Aspect Mobile Imaging Tables. 3/8 in x 1-1/8 in rail.