

Product Overview

The ARCADIS Orbic 3D mobile C-arm system provides fast scan times matched with enhanced image quality. The ARCADIS generates 2D images of the human anatomy in only 30 seconds in 1K2 resolution or 60 seconds for 100 2D images.

ARCADIS Orbic 3D C-arm machines can be equipped with the direct 3D navigation interface NaviLink 3D, or choose the integrated optical navigation platform NaviVision 3D. ARCADIS Orbic's software is designed to support the entire clinical workflow, from patient registration to image documentation. Patient data can seamlessly be transferred from the hospital information system to your C-arm worklist. Two distinctive features of the ARCADIS Orbic

mobile C-arm are true isocentric orbital movement and 190° orbital movement with 95° overscan. Due to this technology, this unit does not require horizontal or vertical readjustment in order to keep viewing area centered and focused.



Siemens ARCADIS Orbic 3D C-Arm

Features

Precise Imaging and Perfect Visualization with Integrated Intraoperative 3D Imaging

- Intraoperative 3D imaging enables intraoperative revisions and evaluation and replaces postoperative CT control
- ARCADIS® Orbic 3D requires only 30 seconds for a complete standard quality scan with 50 2D images in 1K2 resolution – or 60 seconds for a high-quality scan comprising 100 2D images.
- 3D Image Fusion for merging 3D data even from different modalities

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Features Continued

Precise Imaging and Perfect Visualization with Integrated Intraoperative 3D Imaging Continued

- VRT (Volume Rendering Technique) for volume visualization and easy orientation in the dataset
- Optimally matched, fully digital 1K²-imaging chain from image acquisition to viewing and archiving
- Automatic dose, contrast and brightness control with EASY (Enhanced Acquisition System)
- Large 19" high-brightness, high contrast TFT monitors
- An extraordinarily wide viewing angle of 170° and a highly ergonomic mounting on the trolley
- "Monitor out"* interface for viewing on additional monitors
- 3D dual monitor support allows for synchronized parallel scrolling displayed on two monitors. This function can also be used to simultaneously review a scan acquired before an intervention and another one acquired during the intervention.

Distinctive Design and Easy Operation

- Counterbalanced, isocentric design helps saving time and dose and supersedes readjustments by virtually unlimited projection possibilities with 190° orbital rotation
- The central beam always remains in the isocenter, which eliminates the need for repositioning and enables both time and dose savings
- The distance between the image intensifier or x-ray tube and the body region being imaged always remains the same, thus ensuring a constant image size with varying projections
- Large orbital rotation of up to 190° (+95°/-95°)
- Prerequisite for 3D imaging via orbital movement
- Each moving direction of the C-arm is represented by a color-coded measurement scale
- Workflow-oriented Task Card concept
- Basic/Extended Menu for faster orientation and operation
- Large range of medical applications in the Examination Task Card

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Features Continued

Distinctive Design and Easy Operation Continued

- Intuitive selection of programs by using VPA (Virtual Patient Anatomy). Simply click on the VPA body region to be examined to select the appropriate application program
- Up to 200 dedicated, application-specific programs are available

Easy Integration into Clinical Workflows

- Fully functional multi-modality workstation. Multi-modality viewing allows you to access images from other modalities, such as CT and MR
- Support of virtually all DICOM* 3.0 functionalities, i.e., comprehensive connectivity with other modalities and clinical networks
- All patient data can be loaded to your worklist directly from your HIS/RIS
- Query the archive using the search function
- The X-ray tube delivers currents of up to 23 mA in demanding interventions. It furthermore allows for over 50 minutes of fluoro time in a low dose
- Fluoro Loop* delivers an automatic replay of acquired scenes directly after radiation stops
- With LSH* (Last Scene Hold) the last up to 120 acquired images are kept in a temporary memory and can optionally be stored to the local database
- Ergonomic lightweight and compact trolley design for better maneuverability and less space requirement
- Cable-free rear side and 180° rotatable monitors for a considerable reduction of the distance to the OR table
- Vertically and horizontally adjustable monitors* for adaption to application-specific needs
- Intelligent accessory and cable management such as integrated CD and pen box
- Easy accessibility of all network and video interfaces for direct connections without any cable chaos
- X-ray indicator on top of the monitors guarantees the best visibility from all directions

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Features Continued

Optimal Flexibility in Data Handling

- Support of virtually all DICOM 3.0 functionalities (including DICOM Send/Receive, Storage Commitment, Print, Worklist, Query/Retrieve and MPPS)*
- Almost unlimited options for postprocessing, archiving and documentation (with CD, DVD in DICOM and with USB in DICOM and BMP format)
- Overall storage capacity of 60,000 images

Truly Digital Navigation with NaviLink 3D

- Integrated, digital 1 K²-navigation interface NaviLink with automatic transfer of 3D image data for surgical navigation

Dose-Saving Features

- An integrated laser light localizer*, radiation free collimation and multi-level dose control are only a few of many dose reduction features.

Enjoyable Work Throughout

- EMotion* – the integrated onboard sound system – supports a positive working atmosphere

*Optional

Specifications

Diameter, cm (in) (wheels)	23, 15 (9, 6)
Optimal features (Performance)	Optional 3-D feature for intraoperative acquisition of 3-D, CT-like images in 30 seconds, ability to link to leading surgical navigation systems, NaviLink 3-D
X-RAY TUBE ANODE	Stationary
Radiographic mode (Maximum output)	0.6

Specifications Continued on Next Page

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Specifications Continued

Cooling, hu/min (Maximum output)	13,770 anode
Fluoroscopic mode (Maximum output)	0.6
Heat capacity, hu (X-RAY TUBE)	50,000 anode, 1,200,000 unit
Tube power rating, kw @ 100 kvp (Maximum output)	2.3
MONITOR Size, cm (in) (MAXIMUM OBJECT)	18 dual TFT flat-panel monitors
POWER REQUIREMENTS	110-240 VAC
H x W x D of C-arm frame, cm (in) (IMAGE PROCESSING AND STORAGE)	183 x 80 x 215 (72 x 31.5 x 84.5)
WEIGHT, kg (lb) (DISPLAY)	348 (765) chassis, 190 (418) monitor cart
CASSETTE HOLDER SIZES (Focal spot size, mm)	24 x 3024 x 30 cm
DICOM COMPATIBLE (Focal spot size, mm)	Yes
Video storage (IMAGE PROCESSING AND STORAGE)	Digital memory/Digital memory, disk
Image matrix size (IMAGE PROCESSING AND STORAGE)	2.3

Specifications Continued on Next Page

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Specifications Continued

Last taken image hold (IMAGE PROCESSING AND STORAGE)	Yes
Frame integration (IMAGE PROCESSING AND STORAGE)	0-32 frames
Max. # of images (IMAGE PROCESSING AND STORAGE)	10,000 on hard disk; ~300 on CD; both are standard
HARD COPY OPTION (MONITOR)	Paper, filmCODONICS
Free space, cm (in) (C-ARM)	78 (31)
Depth, cm (in) (PA GANTRY)	73 (29)
Panning movement (C-ARM)	10
Rotation (C-ARM)	190 (95)
Horizontal travel, cm (in) (C-ARM)	20 (7.9)
Pivot rotation, (C-ARM)	190
Reverse position (C-ARM)	Yes
Vertical movement, cm (in) (RADIATION DETECTOR)	40 (15.7) motorized
Aec (X-RAY GENERATOR)	mAs
Kv range (X-RAY GENERATOR)	40

Specifications Continued on Next Page

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Pulsed fluoroscopy (X-RAY GENERATOR)	Yes
Ma range (IMAGING SYSTEM)	0.2 - 23
Pulses per sec (MONITOR)	p to 15
Abs control (MONITOR)	Exposure, TV iris, camera gain
mAs RANGE (X-RAY TUBE)	1-150 in 23 steps
Kv range (X-RAY GENERATOR)	40
Snapshot function (MONITOR)	0.2-23 mA
EXPOSURE TIME, sec (MICROMANIPULATORS)	.5-10
OTHER SPECIFICATIONS (AIR SUPPLY)	Isocentric C; digital imaging chain; 200 customizable user programs; virtual patient anatomy to tailor dose to application; syngo user.
FDA CLEARANCE (Interference compensation)	Yes
CE MARK (MDD) (Interference compensation)	Yes
WHERE MARKETED	Worldwide

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