



## Streamlined workflow and outstanding image quality in the OR

ARCADIS Varic

Answers for life.

**SIEMENS**

# Discover

new possibilities

Only a few years ago, the ARCADIS® family thoroughly revolutionized intraoperative imaging and opened completely new possibilities. The next ARCADIS generation continues the pace-setting tradition of taking you to a completely new level of clinical excellence.

Focused on improving everyday practice and solely led by your needs, ARCADIS Varic incorporates numerous unique to-the-point solutions. From image quality to operability, from versatility to efficiency, the groundbreaking features of ARCADIS Varic set new benchmarks – with outstanding functionalities that make perfect imaging a snap and an overall ergonomic concept that redefines your clinical workflow in many fields of practice.

Discover extensive benefits that put you on the cutting-edge of intraoperative imaging.



## Your benefits at a glance

### Precise imaging and perfect visualization

ARCADIS Varic features an optimally matched and fully digital 1K<sup>2</sup> imaging chain from image acquisition to viewing and archiving.

Equipped with EASY (Enhanced Acquisition System) for automatic dose, contrast, and brightness control, and a powerful x-ray tube with tube currents of up to 23 mA allowing for over 50 minutes fluoro time, ARCADIS Varic delivers brilliant images in every situation.

### Easiest operation

Along with its highly ergonomic and space-saving trolley, ARCADIS Varic features a counterbalanced C-arm design with surpassing values in free space, immersion depth, and overscan for superior patient access and positioning flexibility. The intelligent color coding of brakes and handles enables fast and precise positioning.



#### Improved clinical workflow

The ergonomic, lightweight, and compact trolley with 180° rotatable as well as vertically and horizontally adjustable monitors means better maneuverability, less space requirement, and adjustment to every specific need.

The *syngo*® user interface with a Basic/Extended Menu allow for fast and intuitive system operation, image postprocessing, and networking.

#### Maximum flexibility in data handling

ARCADIS Varic supports virtually all DICOM 3.0 functionalities and delivers almost unlimited options for postprocessing, archiving, and documentation with CD, DVD, and USB.

#### Truly digital navigation with NaviLink 2D

Thanks to its integrated digital 1K<sup>2</sup> navigation interface NaviLink™ 2D, ARCADIS Varic automatically transfers 2D images in 1024 x 1024 resolution for surgical navigation purposes.

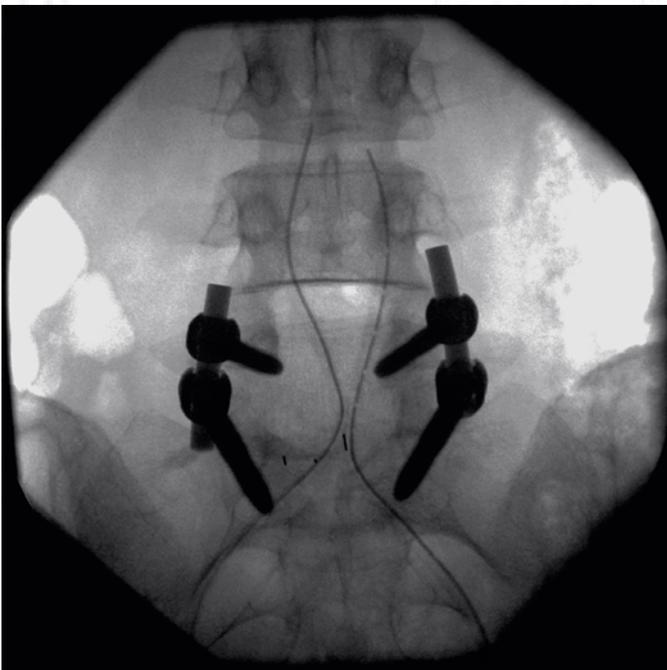
How to start effortlessly  
and finish perfectly

# How to ...

**Perfectly thought-out and fully digital for outstanding image quality**

No matter what the task is, you see what you want to see – in excellent quality and as easy as possible. With its ideally matched components, it consistently delivers the best possible image quality for a broad range of applications like orthopedics, trauma surgery, vascular surgery, or urology to name just a few.

Its fully digital 1024 x 1024 (1K<sup>2</sup>) imaging chain begins right at acquisition and comprises lossless processing, visualization, documentation, DICOM communication, and even surgical navigation at full 1K<sup>2</sup>. The high-capacity and high-resolution digital imaging chain of ARCADIS Varic is setting standards for mobile C-arms.





finish

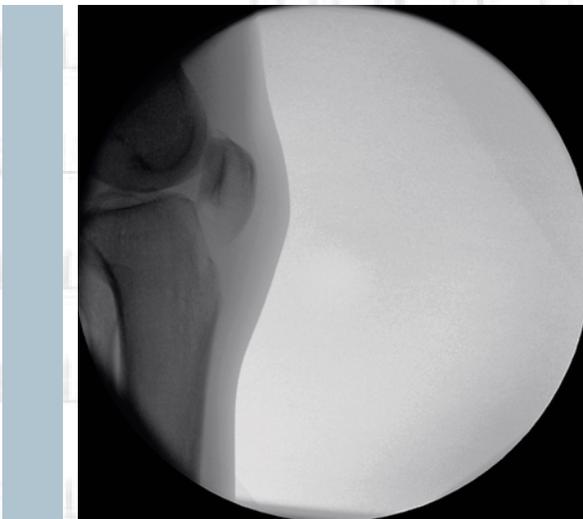
### High performance for demanding applications

The x-ray tube delivers currents of up to 23 mA and allows for over 50 minutes of fluoro time, which means that you are prepared for virtually any application. The enhanced "Power Mode" is available at the touch of a button when you need it most – for example, imaging the pelvis.

### Making acquisition a snap with EASY

ARCADIS Varic comes equipped with EASY (Enhanced Acquisition System), a bundle of automatic imaging processing features that make intraoperative imaging easier than ever before. Thanks to EASY, ARCADIS Varic automatically analyzes the images during acquisition to optimize dose, brightness, and contrast. Even off-center objects are now displayed with excellent clarity.

EASY assures perfect image quality even with off-center objects



### Uncompromising performance in visualization

ARCADIS Varic is equipped with two dedicated medical TFT displays that deliver flicker-free visualization on large 19" screens at high contrast and brightness. With an extraordinarily wide viewing angle of 170° and a highly ergonomic mounting on the trolley, the monitors will adapt to any situation and specific requirement. The displays are available in a color or in a monochrome version for extra brightness. And for all those who want even more, ARCADIS Varic features a practical monitor-out function to connect external monitors, e.g., ceiling-mounted monitors.

Dedicated medical TFT displays with outstanding luminosity for brilliant, flicker-free visualization



A photograph of two surgeons in a sterile operating room. They are wearing blue scrubs, blue bouffant caps, and white surgical masks. They are standing over a patient who is lying on a table, completely covered by a blue surgical drape. The surgeon on the left is gesturing with both hands as if explaining something. The surgeon on the right is also gesturing with his hands. In the background, there is a large piece of clear plastic, possibly a sterile cover, and a computer monitor displaying some data. The overall lighting is bright and clinical.

start

# How to speed up your workflow with flawless imaging

## Intuitive and time-saving operation

With its *syngo* user interface, ARCADIS Varic enables intuitive system operation from registration through examination and postprocessing to documentation and archiving. The self-explanatory icons bring the image postprocessing capabilities of *syngo* to your OR staff with ease.

## Straightforward operation right from the start

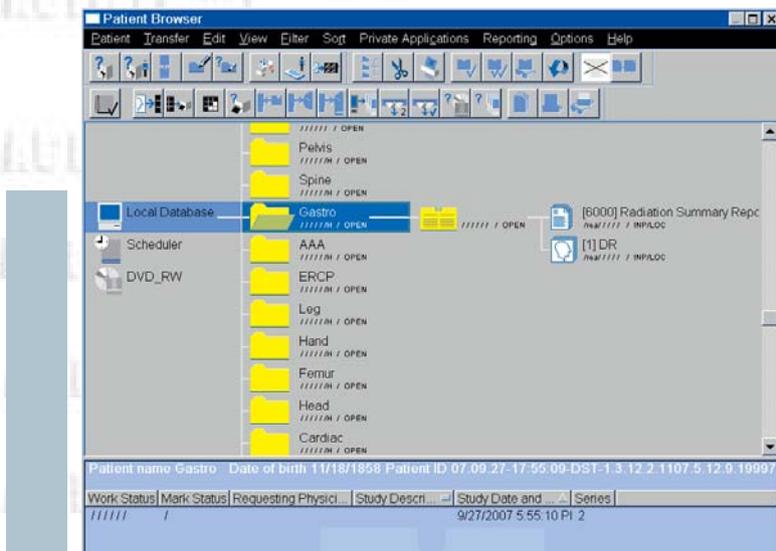
Thanks to the comprehensive DICOM capabilities of ARCADIS Varic, all patient data can be loaded to your worklist directly from your HIS. Alternatively, you can query the archive using the search function. This significantly reduces OR prep time.

## Ingeniously supporting your workflow with Basic and Extended Menus

With its unique Task Cards, ARCADIS Varic puts all control elements you need at your fingertips right from the start. The Task Cards offer a Basic Menu with easy user-guidance for fastest orientation and operation. Whenever needed, you can switch to an Extended Menu that delivers additional information and control elements with a single mouse click.

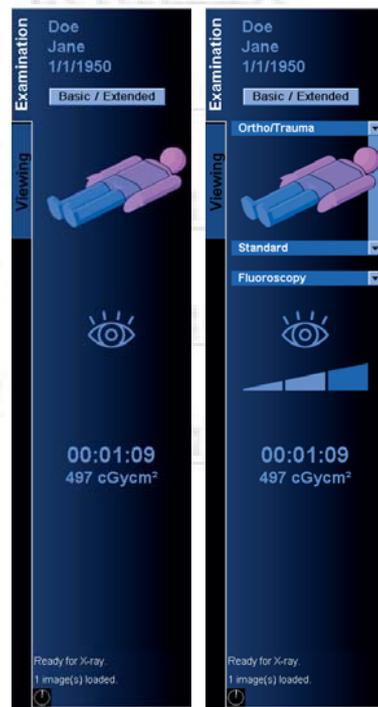
## Simply click and go ahead

The Examination Task Card provides you with a large range of medical applications. The specific programs are intuitively selected 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.



*syngo* user platform for uncompromised access to patient data

Basic and Extended Task Card menus: Additional information and controls at a single mouse click



### Forget the light box

Equipped with a fully functional multi-modality workstation, ARCADIS Varic provides you with the image information you need before, during, and after the OR procedure. Multi-modality viewing allows you to access images from other modalities, such as CT and MR, whenever you need them, while *syngo* enables intuitive and easy handling.

### Immediate fluoro playback and large storage capacity

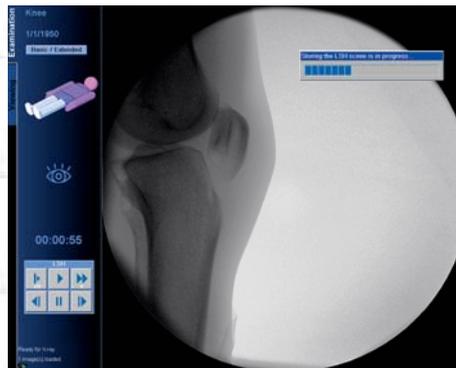
Fluoro Loop delivers your scenes without delay: Playback of an acquired scene starts automatically, directly after radiation stops. With LSH (Last Scene Hold), the last 120 acquired images are always kept in a temporary memory and can optionally be stored to the hard disk on the fly. With an overall storage capacity of 60,000 images, there is ample hard disk space even for most extensive documentation purposes.

### Optionally equipped with navigation

ARCADIS Varic features NaviLink 2D, an integrated, truly digital 1K<sup>2</sup> navigation interface with automatic image transfer. For optimum image quality, 2D images are transferred in digital 1K<sup>2</sup> format. This increases the accuracy of surgical navigation significantly. NaviLink 2D is compatible with the navigation systems of leading manufacturers and optimally supports the clinical workflow.



The comprehensive multi-modality capabilities of ARCADIS Varic make all required information available in the OR



Last Scene Hold (LSH) always keeps the last 120 acquired images in temporary memory for optional storage



NaviLink 2D, the interface to navigation systems of leading manufacturers

# How to apply cutting-edge technology and achieve outstanding convenience

## How to ...

### Taking ergonomics seriously

Keeping an eye on the human factors is one of the most demanding tasks in the design of medical systems. At the same time, convenient operability down to the last detail is key to a smooth workflow. Retaining all the user-friendly and proven elements like the color-coded design of the handles and C-arm movements, which enables fast and precise positioning.

The counterbalanced C-arm excels with surpassing values in free space, immersion depth, and overscan for outstanding patient access and positioning flexibility.

### Appealing, well thought-out, and easy to handle

The system trolley of ARCADIS Varic comprises a multitude of improvements designed to facilitate everyday work. With its footprint of only 73 x 65 cm, it sets a new benchmark for space saving design and advantageously accommodates the limited space in most ORs. Moreover, its lightweight and compact design, ergonomic handles, centralized footbrake, and the foldable monitors all contribute to an appreciable plus in maneuverability.

The monitors may be adjusted vertically to ideally match a surgeon's sitting position during hand surgery, for example, and they may be rotated by 180° to reduce the distance to the operation table considerably. To support this, the rear side of the trolley is kept totally cable-free for easiest cleaning.

Up to 40° of overscan provides outstanding flexibility



The monitors may be adjusted vertically and they may be rotated by 180°



achieve

#### It's the details that count most

The trolley has been greatly improved for even higher user-friendliness and best maneuverability in tightest environments and under busiest working conditions. Input devices such as keyboard and mouse are always in direct reach, and the top of the trolley also features intelligent detail solutions like a drawer for CDs, DVDs, and the quick guide.

All network and video interfaces are easily accessible for direct connections without any cable chaos.

The x-ray indicator on top of the monitor support guarantees best visibility from all directions, which contributes to optimum dose care for all staff.

#### Advanced footswitch operability

The multifunction footswitch, which is available as an alternative to the standard footswitch, enables even more user-friendly and intuitive operation of ARCADIS Varic. It allows surgeons as well as OR staff to control all operating modes and single image storage. Thanks to the adjustable footswitch setup, pulsed fluoroscopy instead of continuous fluoroscopy can be allocated to a fixed pedal – an easy way to further improve dose saving measures and efficient tube load management.

#### Smart transport and protection

In addition to the comprehensive adaptability the monitors offer during operations, they can be folded for transport and parking. Foldable monitors are a major contribution to safe transport of the system thanks to an unobstructed view, and also provide a very functional monitor protection solution in parking situations.



The trolley offers high user-friendliness and best maneuverability in tightest environments and under busiest working conditions



The multifunction footswitch enables more user-friendly and intuitive operation



Monitors can be folded for transport and parking



apply

# How to improve your daily work through convenient system handling

## Effortless positioning

With ARCADIS Varic, precise positioning is a breeze. The Mu-metal shielded image intensifier is equipped with a circular handle, which allows easy and accurate C-arm positioning. An integrated laser light localizer can be activated at the control panel to exactly indicate the focus with a reduction of fluoro time.

## Clarity of orientation

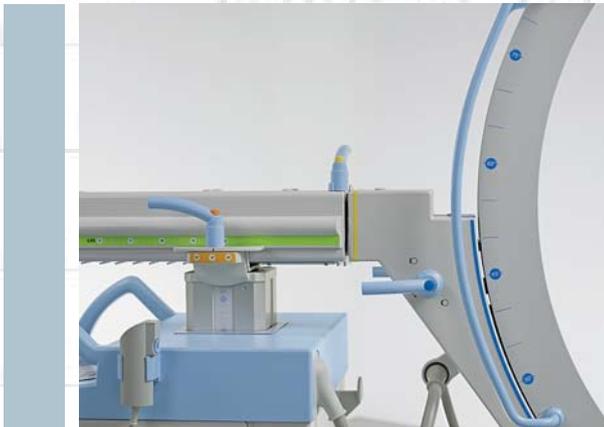
The cleverly devised color code, for example, is a uniquely easy-to-understand and efficient means of orientation providing for quick and precise positioning of the C-arm. Each moving direction of the C-arm is represented by a color-coded measurement scale, which corresponds to the color of certain handles and brakes.

## Utmost flexibility in data handling

Thanks to its unique *syngo* software platform, ARCADIS Varic offers comprehensive connectivity with other modalities and clinical networks irrespective of the manufacturer. *syngo* supports virtually all DICOM functionalities, including DICOM Send/Receive, Storage Commitment, Print, Worklist, Query/Retrieve, and MPPS. This means maximum flexibility from patient registration through postprocessing to archiving and documentation – a substantial improvement of the daily routine.

## Independence in data storage

ARCADIS Varic supports off-line data storage of images in DICOM format on CD, DVD, or even on a USB memory stick in DICOM or Bitmap. Moreover, ARCADIS Varic automatically includes a comprehensive *syngo* DICOM Viewer on every CD and DVD. The images stored on the medium can thus be viewed on every computer, regardless of operating system and platform.



Color coding of brakes and scales for each moving direction



With ARCADIS Varic, precise positioning is a breeze

### Enjoyable work throughout

ARCADIS Varic was designed to make powerful technology effortlessly available and to contribute to a working atmosphere that increases the overall job performance of surgeons and all OR staff. Cutting-edge imaging capabilities, hassle-free and intuitive operation, outstanding maneuverability, and convenient data handling allow for a smooth workflow and concentrated work that really focuses on the patient instead of dealing with technical difficulties. To round out the multitude of beneficial improvements to your daily work, ARCADIS Varic also offers EMotion, the onboard sound system that can be connected to an MP3 player and makes working with ARCADIS Varic an even more enjoyable experience.

### An intelligent investment for years to come

Exceptional performance and high versatility backed by comprehensive service options make ARCADIS Varic a future proof investment of outstanding value. Alongside, the comprehensive service options available for ARCADIS Varic guarantee highest uptime and utilization rates. Thanks to Siemens Remote Services, your system is proactively monitored and parameter deviations can be detected before problems occur. Remote diagnosis allows us to identify defective parts and to accelerate their delivery, thereby keeping repair times to a minimum.

The unique customer care solutions from Siemens help you get the most from your investment. From the moment of your purchase, Siemens surrounds you with an array of programs and support that enables the continuous development of your skills, productivity, and technology. Increase profitability. And take patient care to the next level.

### Hassle-free operation and outstanding maneuverability



Off-line data storage even on a USB memory stick



Onboard sound system for an enjoyable environment



The information in this document contains general descriptions of the technical options available and may not always apply in individual cases.

The required features should therefore be specified in each individual case at completion of contract. Siemens reserves the right to modify the design and specifications contained herein without prior notice. Please contact your local Siemens sales representative for the most current information.

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