

**ALL-IN-ONE
MOBILE C-ARM
WITH MONITOR
CART FEATURES**

moðnRAY
500 C

moðnRAY
500 CXL



A Sago Medica Company

Perfect Integrations of
1kx1k matrix quality
and digital quality of 19"
TFT monitors with high
brightness and contrast

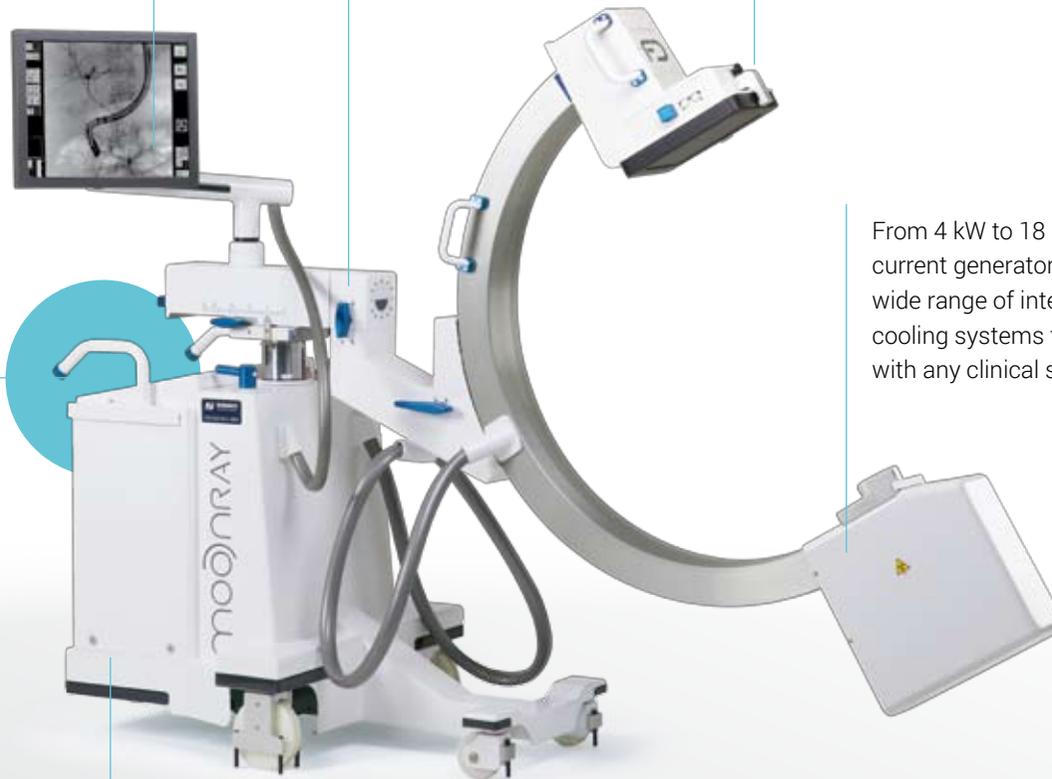
All-in-one design
with no compromise
in performance

Active CMOS Flat X-Ray Detector.
Best Low-Dose DQE Performance

From 4 kW to 18 kW of
current generators with a
wide range of integrated
cooling systems to deal
with any clinical situation



Unique 17"
touch console/
viewing monitor



Exceptional maneuverability to face
the most challenging work spaces



**Expand Moonray
500 C to 500 CXL** by
adding a monitor cart
to achieve superior
flexibility and versatility



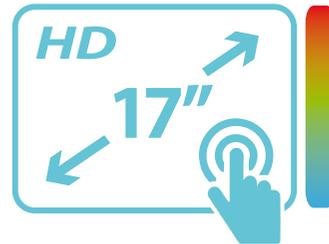
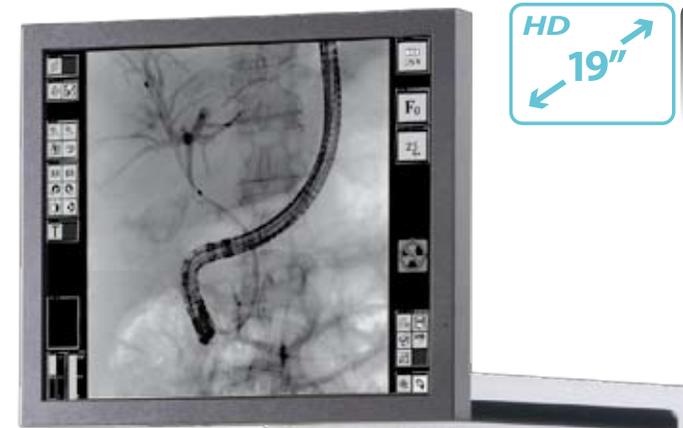
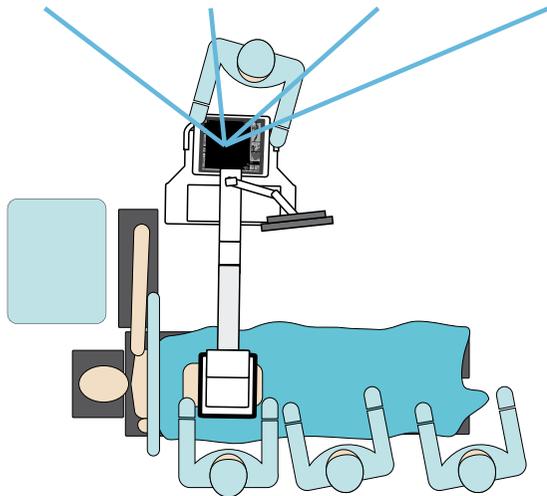
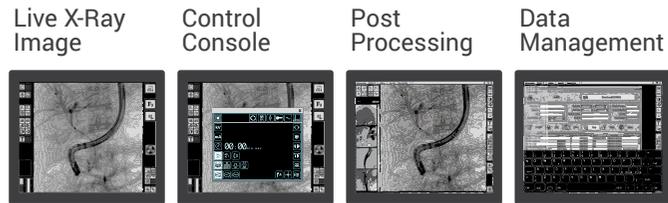
moonRAY
500 C

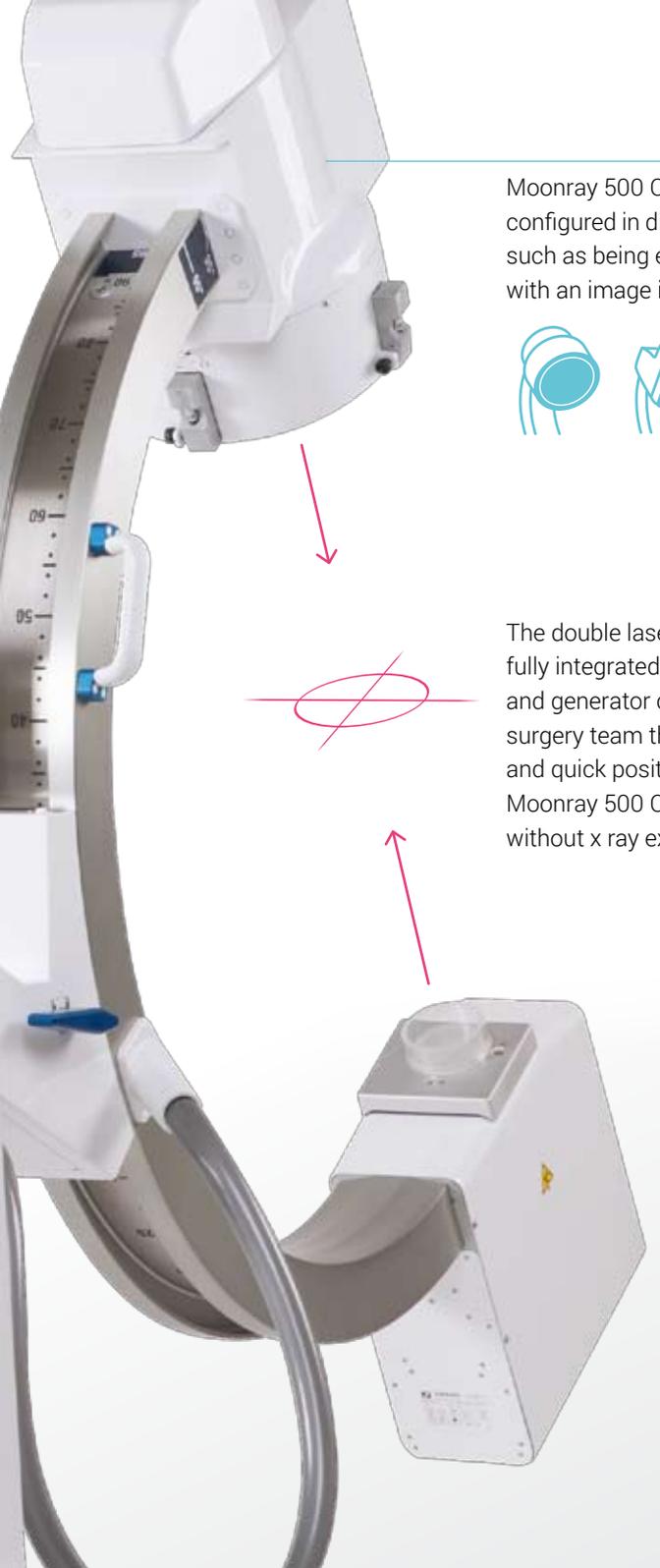
moonRAY
500 CXL

All-in-one flexible solution
with no limits in surgery
performances.

A 17" touch console which it's also a viewing monitor

Thanks to the 17" hi-resolution touch screen monitor the radiologist technician can completely control the Moonray 500 C without hindering the vision of the surgery's team, ensuring greater sterility of the operating field and keeping himself in a better protective position from x-rays.





Moonray 500 C can be configured in different ways, such as being equipped with an image intensifier.



The double laser aimer option fully integrated into detector and generator case, let the surgery team the perfect and quick positioning of Moonray 500 C on the patient without x ray exposure.



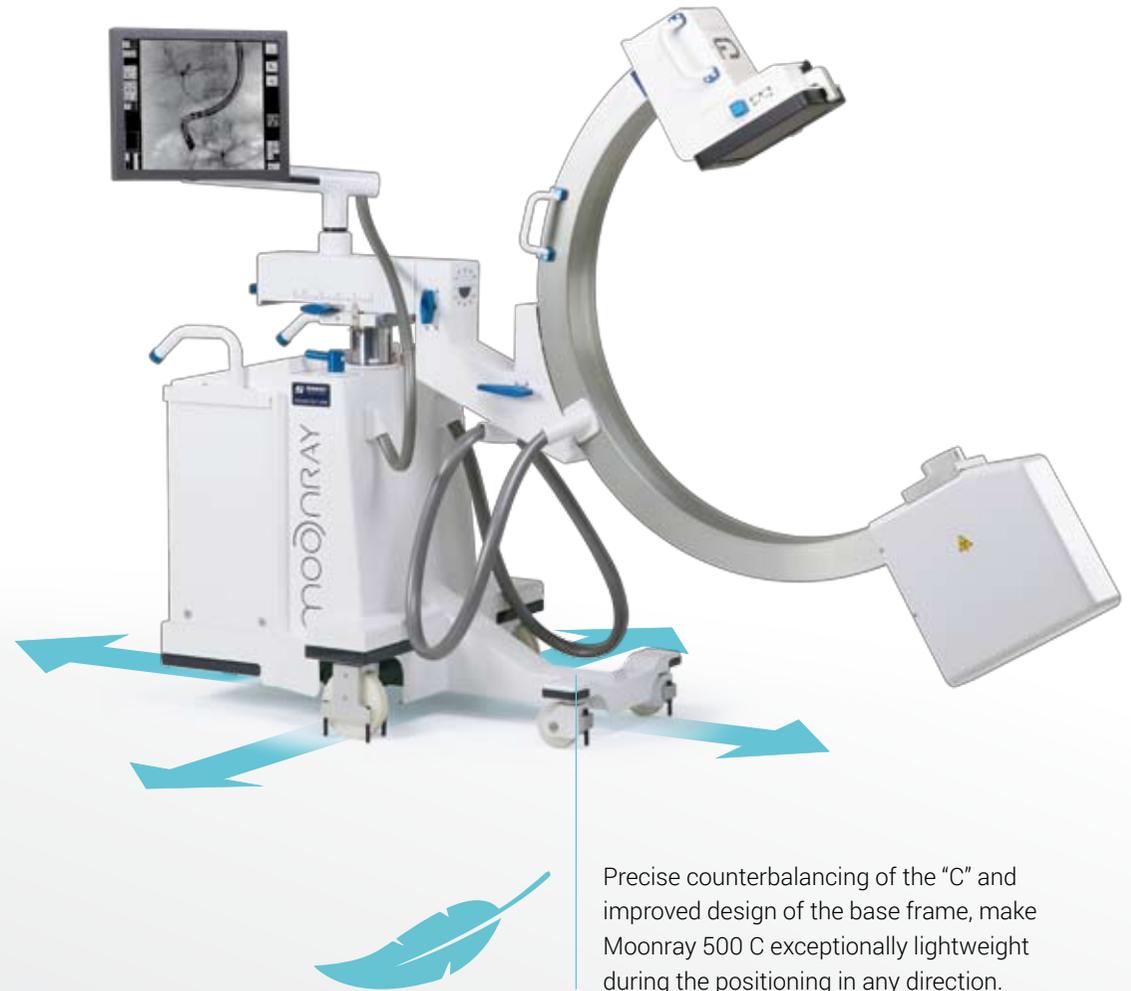
Compact and versatile all-in-one design

Designed considering small spaces and frequent handling inside hospitals, Moonray 500 C carries in itself x ray emitting technology and the whole imaging management features, just in one compact equipment.

Expand your viewing configuration when you want to use it right when it's needed



Moonray 500 C can be easily implemented to CXL version by adding a monitor cart equipped with two 19" TFT monitors to achieve superior flexibility and versatility during different surgical applications.



Precise counterbalancing of the "C" and improved design of the base frame, make Moonray 500 C exceptionally lightweight during the positioning in any direction.

Handling has never been so easy



Side handles for a comfortable C-arm positioning.



The unique steering handle allows parallel movement for easy positioning alongside operating table.



Wheels entirely designed and manufactured by our R&D dept. to get improved handling performance and a better cleaning.



Compact foot for a perfect symbiosis with the operating table.

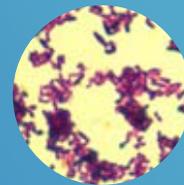
So fast to sanitize,
so safe against
cross-infections.

EXTREMELY SMOOTH AND EASY-CLEANING SURFACE

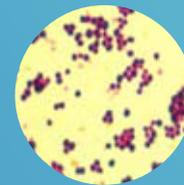
A special coating technique based on the automotive industry processes, gives to our products' surfaces an extraordinary durability, and thanks to its mirrorlike finishing an accurate and easy cleaning is guaranteed.



*Gram-positive
Propionibacterium*

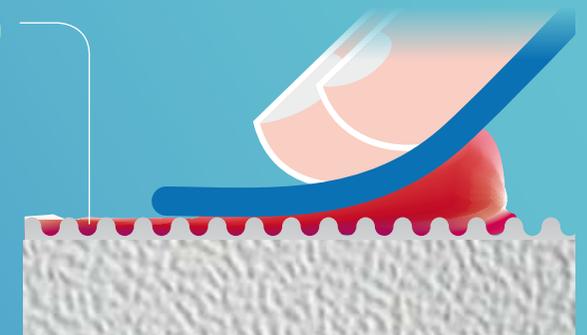


*Gram-positive
Corynebacterium*



Staphylococcus

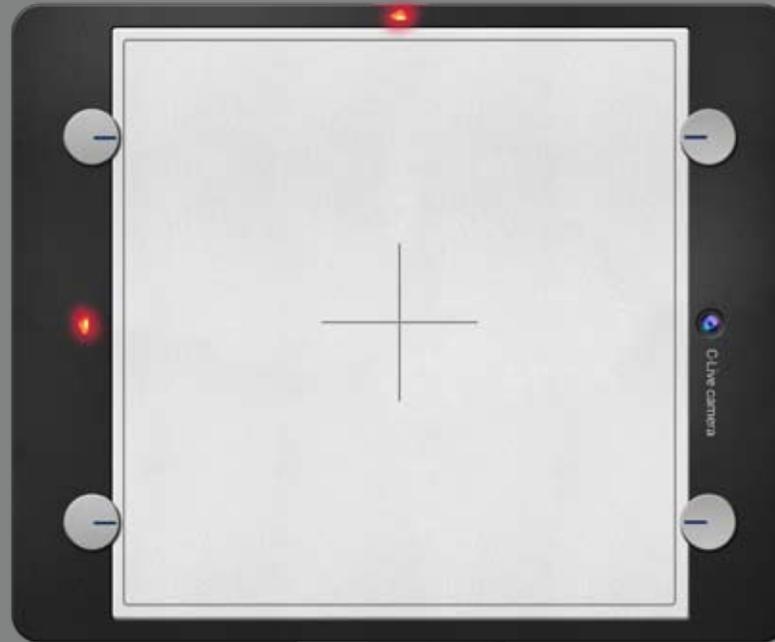
Typical embossed standard surface



Active CMOS flat X-ray detector. Best Low- Dose DQE Performance

High resolution crystal clear images combining high dynamic range with unsurpassed signal-to-noise performance at the lowest exposure levels.

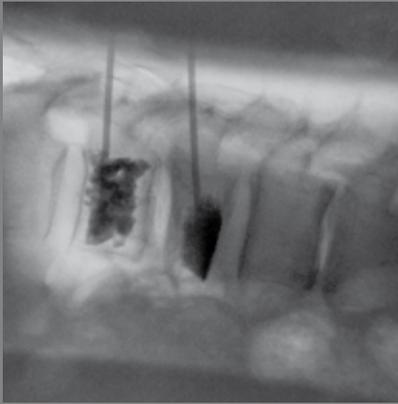
C-Live Camera
experience a precise positioning of the c-arm without x-ray emission and no interference with the sterile field.



30x30 Active
CMOS FD



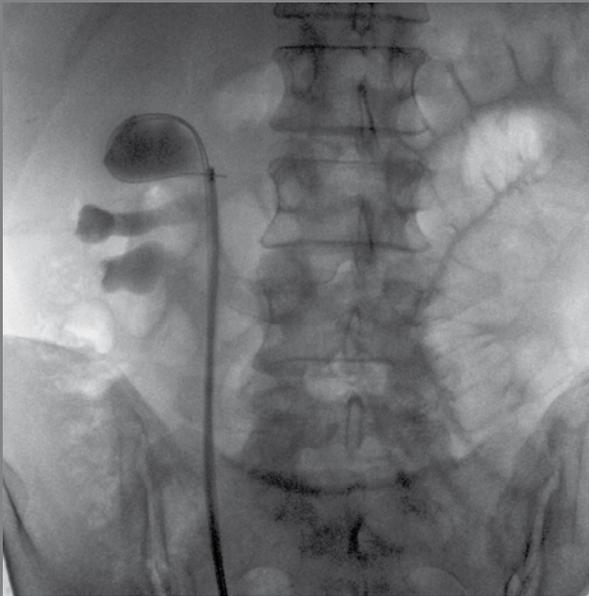
22x22 Active
CMOS FD



Neurosurgery procedure

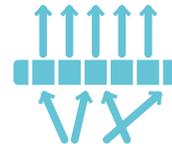


Endoscopy procedure



Urology procedure

Optimized imaging chain for superb image quality



High quality anti-scatter grid



State-of-the-art CMOS detector technology



Accurate automatic image optimization



High-end medical monitors

The liberation from pre-established anatomical programs.

SIMAD's DAC and DDC algorithms adjust automatically the exposure parameters in relation to the actual patient characteristics providing a perfectly balanced image.



Dynamic Anatomic Compensation

Dynamic evaluation algorithm of radiological and digital characteristics in order to obtain the best possible image without the use of anatomical pre-settings.



Dynamic Density Compensation

Dynamic evaluation algorithm of the density of the object observed in dynamics acquisitions.

Dose control techniques for patient and operators' safety

The demand to obtain good quality images keeping the radiological exposure as low as possible is constantly growing all over the world.

Through the SIMAD set of specially developed software and dedicated accessories, the medical team is able to omit and better manage all that radiological exposures that are not necessary to obtain the diagnostic image required, protecting their health and of the patient.



SIMAD Low Dose Control (LDC)

Optimize with efficiency the image information path acting on the reduction of the input dose without penalizing the quality of the final outcome.

This leads to obtain an automatic and precise control of the useful lowest dose needed, and fully express our commitment to adhere the **ALARA principle (As Low As Reasonably Achievable)** in reducing radiation dose to the lowest possible level.



Digital Collimators Preview

Positioning of the collimators without x-ray emission.



Digital Magnification

Image magnification without x-ray emission.



Pulsed Fluoroscopy

Short pulses radiation for larger dose savings.



Low Current Exposure

Additional manual lowering of the current value to minimize the absorbed dose.

Dose saving options



Integrated laser aimer

Additional pointing device integrated into the detectors and generator case for precise positioning of the c-arm without x-ray emission.



Removable Grid

To maintain a low dose rate in small patients.



C-Live Camera*

Exclusive pointing feature for precise positioning of the c-arm without x-ray emission and no interference with the sterile field.



KermaLite

A complementary system of x-ray protection to limit the exposure of patients and operators to the scattered radiation

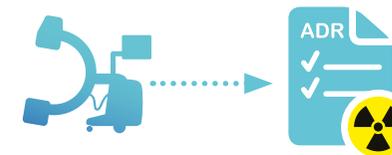
* Available on Flat Detectors only

Dose management



DICOM Dose Report (DDR)

Automatic compiling of dosimetric folder with the Radiation Dose Structured Report (RDSR) DICOM standard.



Automatic Dose Report (ADR)

Automatic calculation of the exact radiological exposure given to the patient for each surgical application.

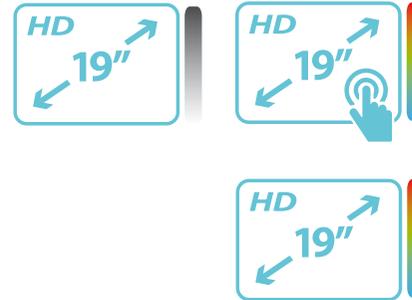


STATLab SIMAD software

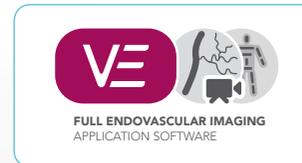
DAP Data analysis software to calculate the total amount, the average and the variance of the radiological dose to the patients.

Wide
configuration
possibilities
to meet every
application
need

DISPLAYS
Various options
always 1kx1k



**APPLICATION
SOFTWARES**
Dedicated
softwares to
perform all clinical
application





cmos **ii**



9"
IMAGE INTENSIFIER

cmos **ii**



13"
IMAGE INTENSIFIER

cmos **FD**



22x22
ACTIVE CMOS FD

cmos **FD**



30x30
ACTIVE CMOS FD

DETECTORS

Wide and free choice between the latest powerful **Active CMOS flat X-Ray detector** technology and the classic reliability of the image intensification technology.

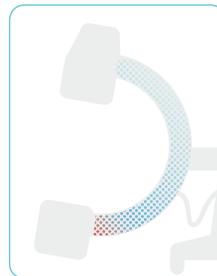
4 kW
FIXED ANODE

12 kW
ROTATING ANODE

18 kW
ROTATING ANODE

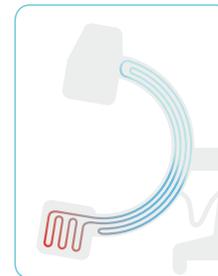
POWER GENERATORS

Different types to cover any performance needed

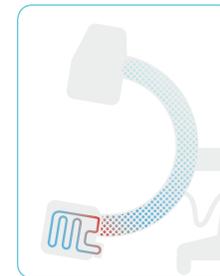


HDS HIGH DISSIPATION SYSTEM

STANDARD FEATURE



iLX INTEGRATED LIQUID COOLING SYSTEM



iLX PLUS INTEGRATED LIQUID COOLING SYSTEM

COOLING SYSTEMS

Completely integrated and separated from the device's main electrical wiring

Simple and intuitive interface because the workflow in the operating room does not allow hesitation.

The application software of Moonray 500C and 500CXL presents clear icons that quickly guide the operator to choose the desired function without distractions.

A rapid and precise browsing experience between folders and working modalities keeps the surgical team focused.

SIMAD Moonray 500C / 500CXL

FULL DIGITAL SYSTEM

Nowadays, medicine requires ever-growing solutions that communicate without limits and this is possible only through the use of digital solutions. That is why we have developed an open system that can remain updated over time.

- DICOM software package
- Digital film printer
- High Capacity DVD/CD
- USB connection
- Remote Training and Assistance
- TCP/IP Network
- Memory storage capacity over 250.000 images

DICOM | BMP | AVI | JPG

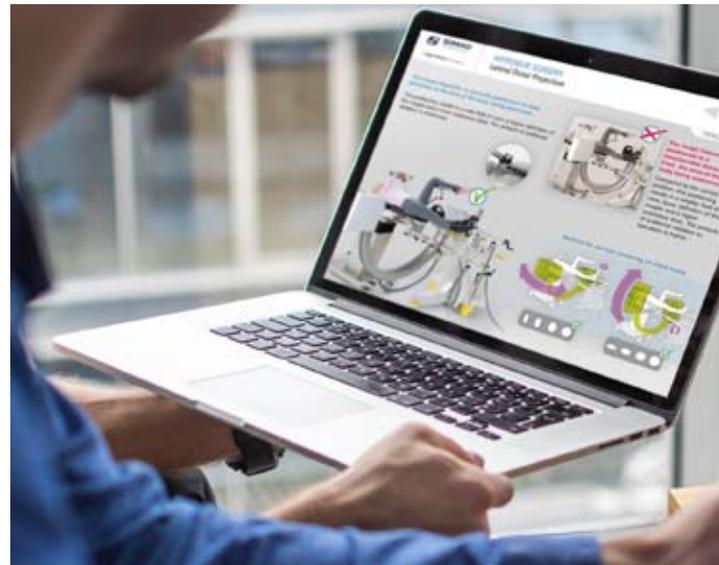
Export your best imaging procedures in the most common files format for conference reports, training and congresses.

SIMAD Education Center

New surgical necessities require radiologic competence and skillfulness from many points of view.

Training courses arranged by Simad are scheduled and studied to develop the right competences useful to operators to exploit utmost system potentialities. Training courses are aimed to face:

- Radioprotection concept
- Ratio and connection between x-ray dose and image quality
- Management and post processing of images
- Radiological screening and device positioning according to surgical applications
- Dose report management and supervision



SIMAD Technical Service

Continuous training of our qualified engineers and technicians to guarantee the efficiency of your instrument.

A complete managing of the national technical assistance service through our staff in Italy, led us to organize courses and maintenance programs built on the experience of more than 400 equipment installed and maintained in the country.

Through these specific training courses for maintenance and repair we train continuously the technicians of our partner companies who distribute our brand.

Thanks to this network of experienced staff we guarantee rapid technical interventions anywhere in the world.



moðnRAY
500 C

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500 CXL

SIMAD Partner



A Sago Medica Company



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Direzione e
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