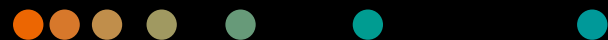


ARTIS VE40

What's new?

New *syngo* Application Software

December, 2024



New system software ARTIS VE40

Available

- For **new system orders** and
- As **system upgrade** for systems **currently at VE23B & VE30A** (End of calendar year 2024, for ARTIS icono ceiling systems with **Xpand rail preparation*** already released)



ARTIS icono ceiling



ARTIS icono floor



ARTIS icono biplane



ARTIS pheno

ARTIS VE40 is not commercially available in all countries. Its future availability cannot be guaranteed. Country specific timelines may apply.

*For ARTIS icono ceiling with ceiling rail preparation for Xpand

ARTIS VE40

At a glance

New



**syngo Biplane 3D
Roadmap¹:**
Boost image guidance

New



**ARTIS icono ceiling
with Xpand¹:**
Expand your freedom

New*



Scene Compare¹:
Synchronized review of
two DSA scenes

New



New Cardiac OGPs¹:
Faster cardiac 3D
acquisition

New*



ECG-triggered FL¹:
Display a steady catheter
with potentially low dose

New



**Rotation unlock via TCM &
touchscreen in PCM:**
New rotation unlock for
standard table

New



**Foot-side Accessory Rail
Below Table¹:**
New accessory rail for
standard & multi-tilt tables

ARTIS VE40 is not commercially available in all countries. Its future availability cannot be guaranteed.

1| Option; Hardware and/or software license needs to be purchased.

*on ARTIS icono

ARTIS VE40

At a glance

Improvement



DVD-Video Recording¹:
Dynamic image text into
DVD video recording

Improvement



**EP-display improvements
for Control Room Cockpit
and Large Display:**
Mapping system layout
grids for cockpit option

Improvement



UI Improvements:

- Head holder selection
after patient
registration
- Drag & drop favorites

Information



**Reduced Energy
Consumption:**
Energy Efficiency with
ARTIS icono

syngo Biplane 3D Roadmap

New with ARTIS VE40



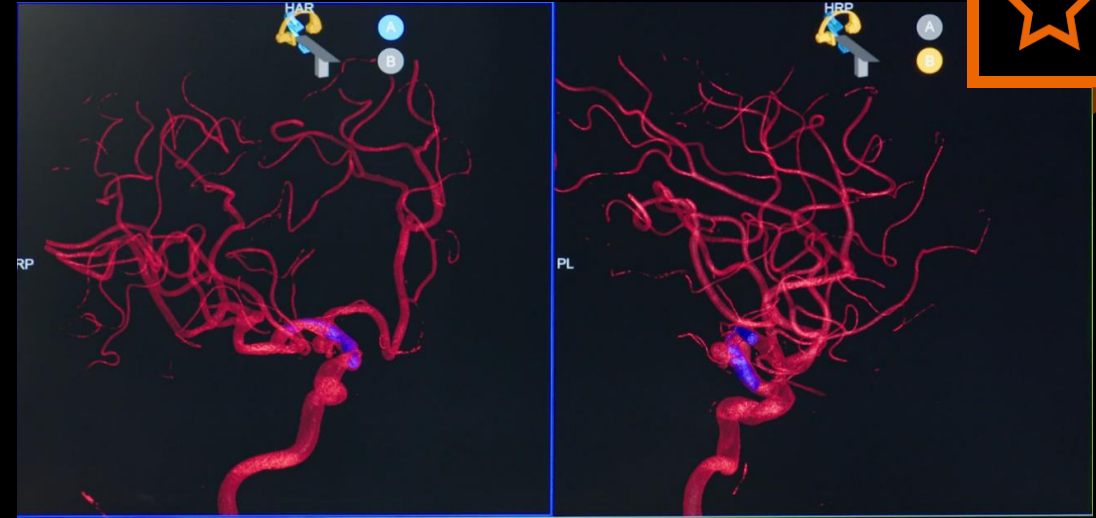
syngo Biplane 3D Roadmap

Boosting image guidance in the angio lab



Boosting image guidance in the angio lab

Supports overlay of any 3D volume to fluoroscopy during the procedure



Supports

3D datasets, overlay graphics, *syngo* Embolization Guidance, myNeedle Companion, segmentation results

Enhances the workflow in embolization or needle procedures

syngo Biplane 3D Roadmap enhances the workflow for aneurysm treatment



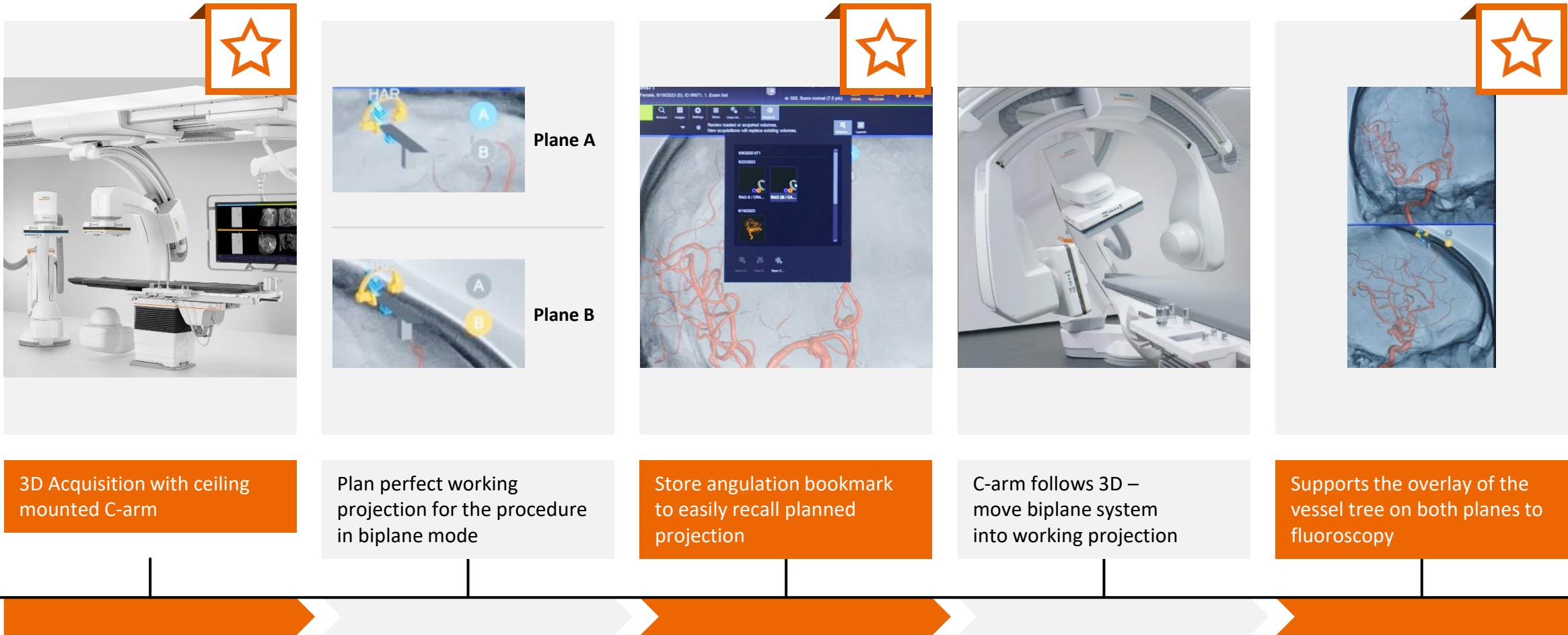
Effective device guidance

C-arm, table and zoom parameters will be automatically aligned with the 3D dataset

Supports treatment due to overlay on plane A and plane B



syngo Biplane 3D Roadmap enhances the workflow for aneurysm treatment



syngo Biplane 3D Roadmap Summary

- Overlay of the pre-* or intra-procedural 3D volumes onto live fluoroscopy on both planes
- 3D volume will be adjusted as if seen through the perspective of plane A & B detectors
- Volumes such as CT, MR or PET CT can be used for the Biplane 3D Roadmap*
- Side-by-side view available where 3D Roadmap information on 3D sharing segment and 2D information on the live segment are
- The visualization of the 3D Roadmap is automatically updated in real-time according to any table, C-arm, zoom and SID changes

- Avoids repeated injection of contrast media during fluoroscopy by overlaying a 3D vessel tree instead
- Offers user a real-time 3D guidance for more confidence
- Changes due to patient movement can be manually updated
- Visibility of the overlaid information can be adjusted at any time by fading in and out
- The *syngo* Biplane 3D Roadmap also supports workflows such as myNeedle Companion, *syngo* Embolization Guidance and the overlay of 3D graphics (polylines, markers and measurements) onto both planes

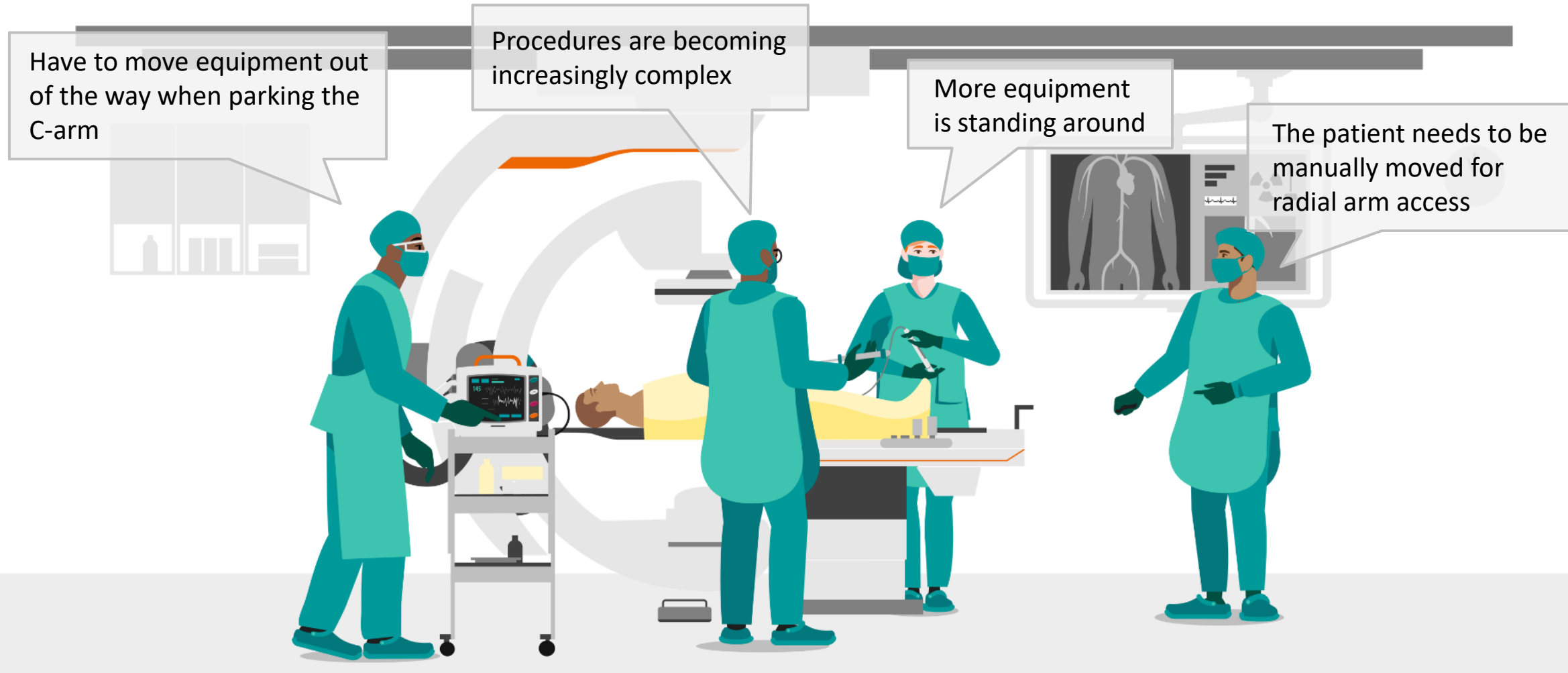
*Performing registration workflow step is required.

ARTIS icono ceiling with Xpand

New with ARTIS VE40

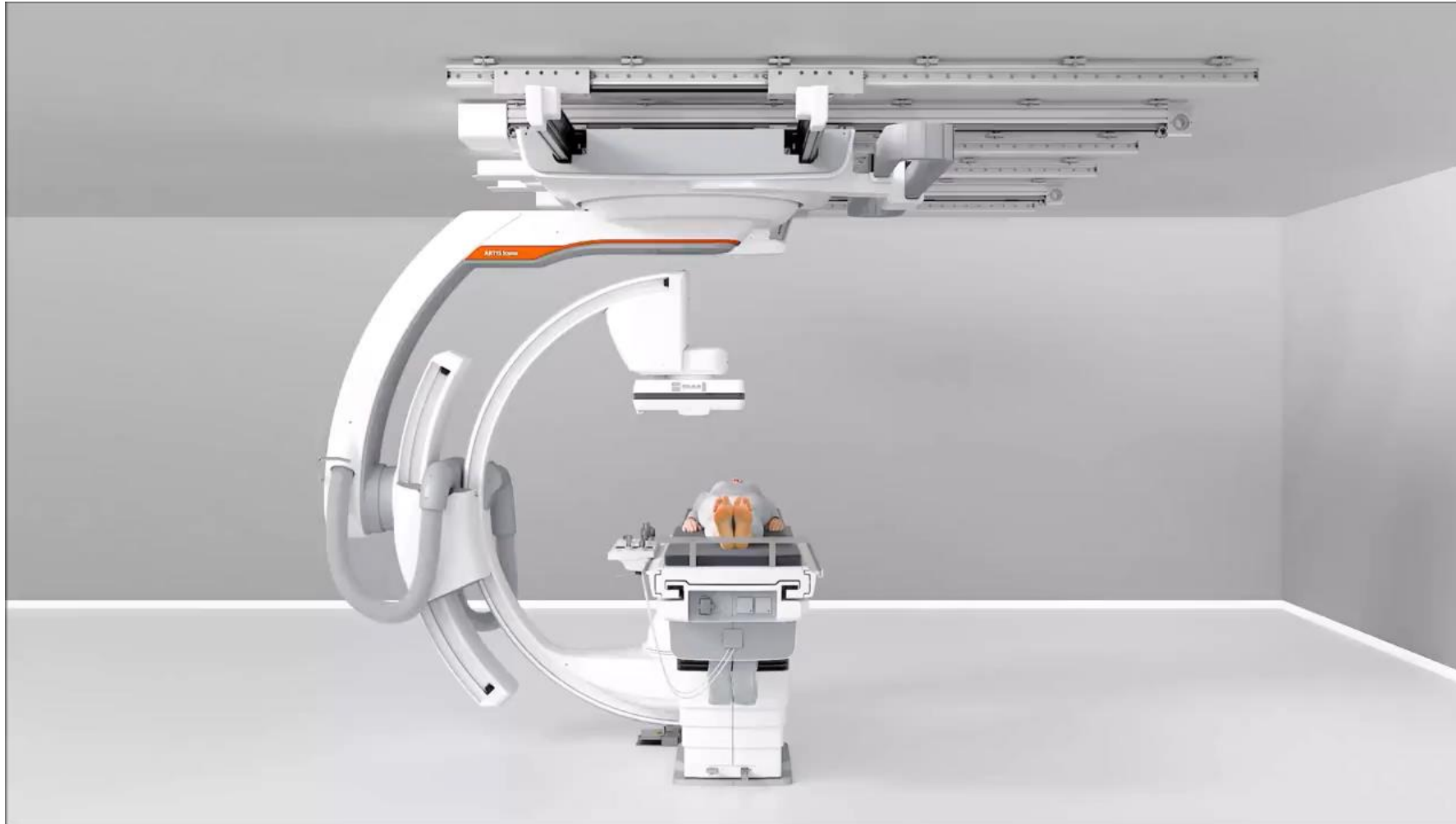


Why we need a new move in the angio suite



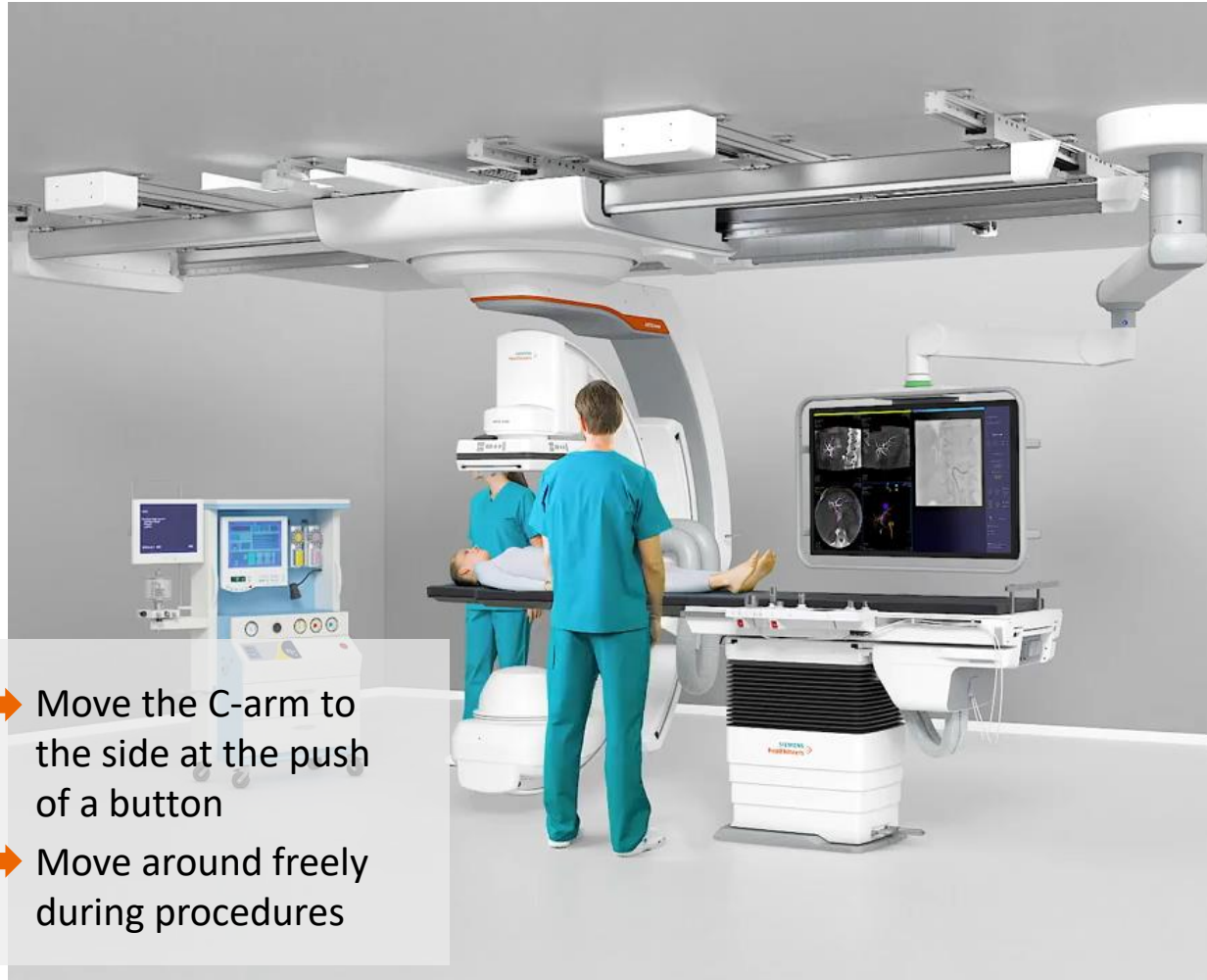
ARTIS icono ceiling with Xpand

Expand your freedom

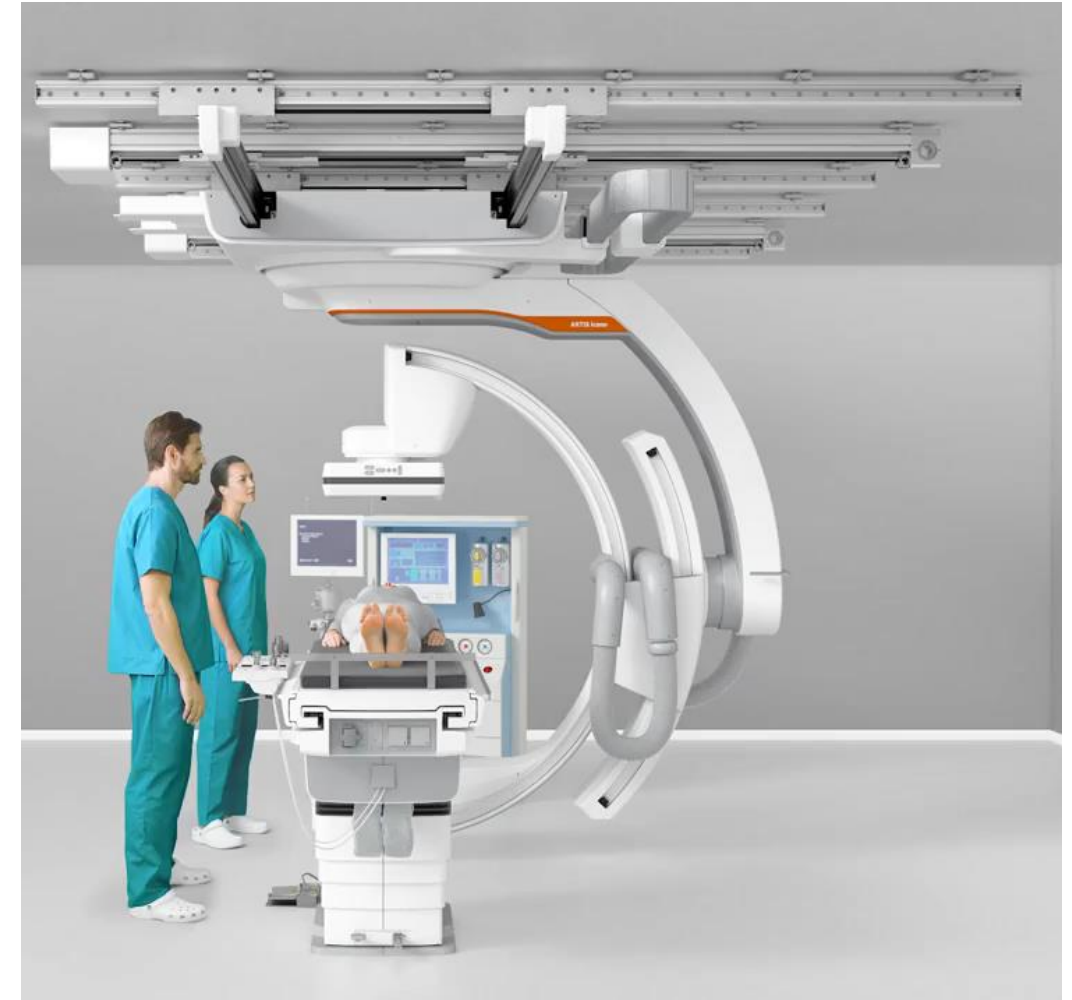


ARTIS icono ceiling with Xpand

Extended left side parking

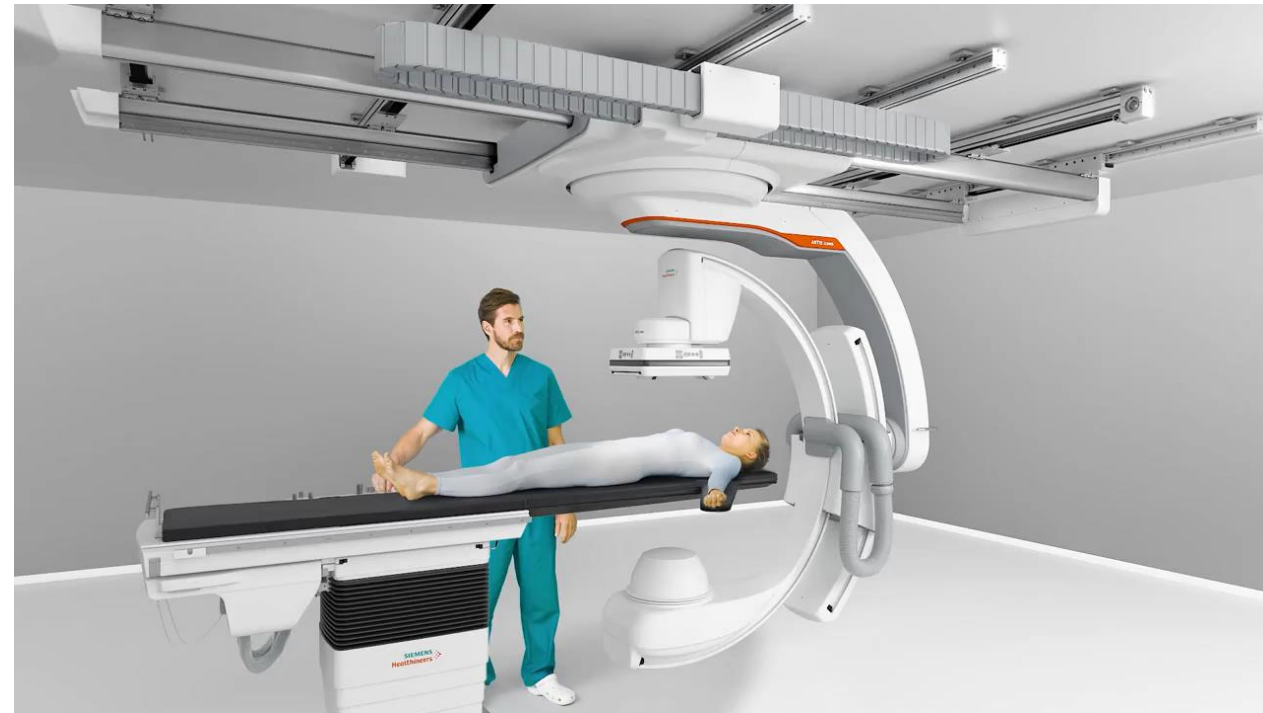
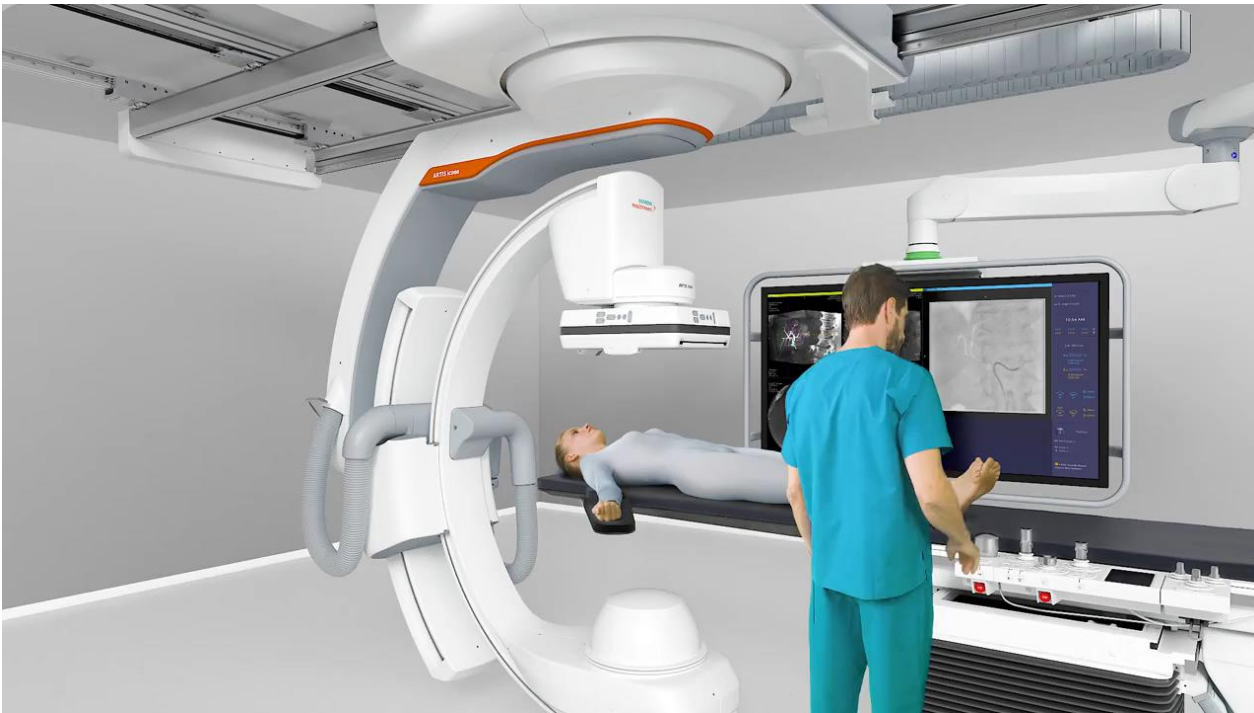


- ➔ Move the C-arm to the side at the push of a button
- ➔ Move around freely during procedures



ARTIS icono ceiling with Xpand

Arm access without patient movement

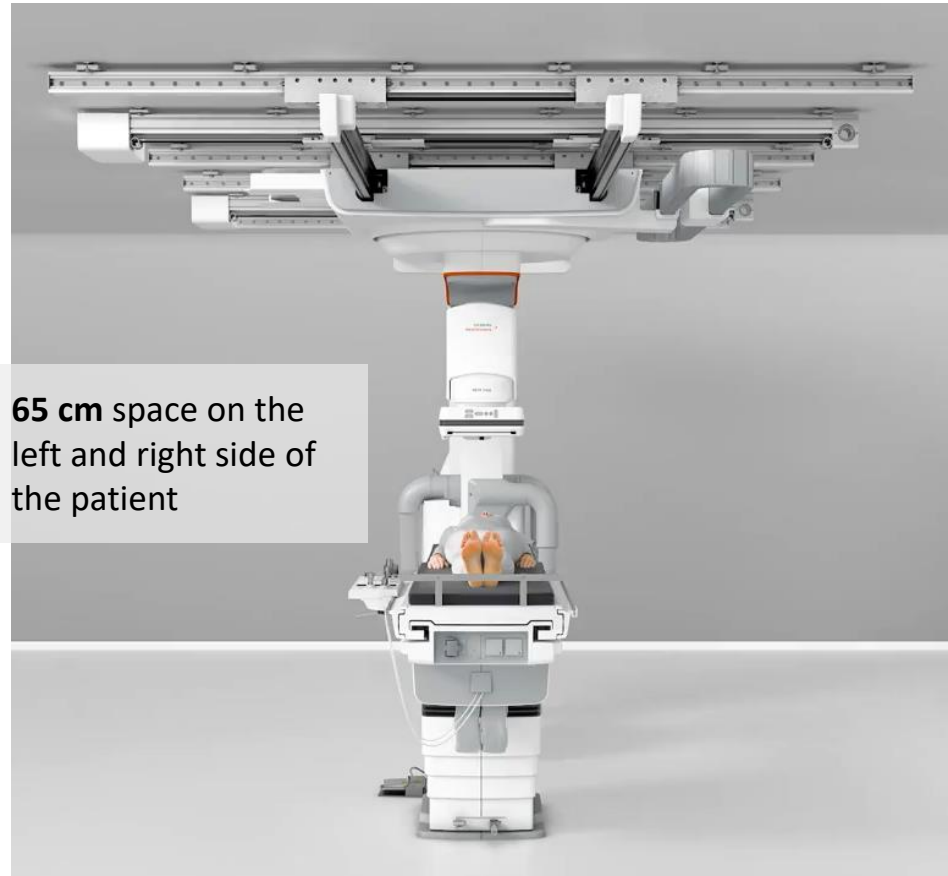


➡ Comfortably perform arterial arm access
on both sides ...

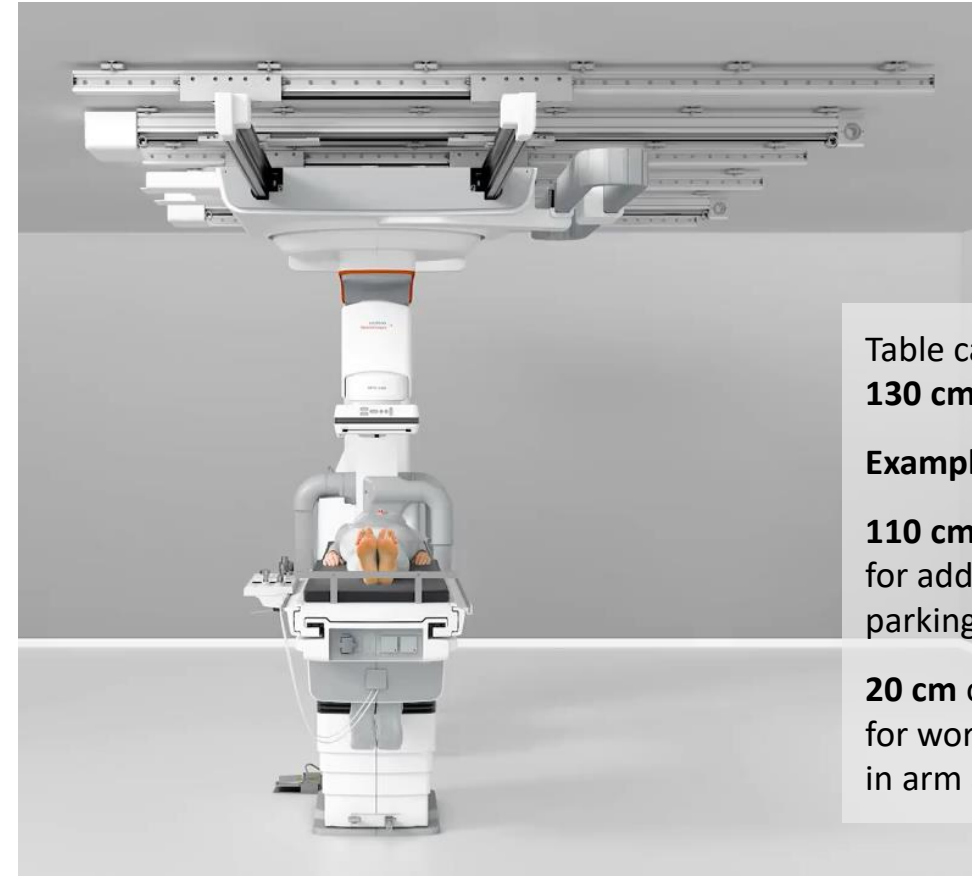
ARTIS icono ceiling with Xpand

Expand your freedom

Symmetric installation



Asymmetric installation



Scene Compare

New* with ARTIS VE40



Scene Compare

Synchronized review of two DSA scenes

- Synchronized side-by-side review of two DSA scenes
- Playing the scenes simultaneously or stepping through the frames of the scenes is possible
- Both the evaluation of bi-planar scenes in synchronized mode as well as the dynamic comparison of two consecutive mono-plane scenes is possible



Effectiveness of a treatment evaluation by
comparing pre- and post-treatment imaging

New Cardiac OGPs

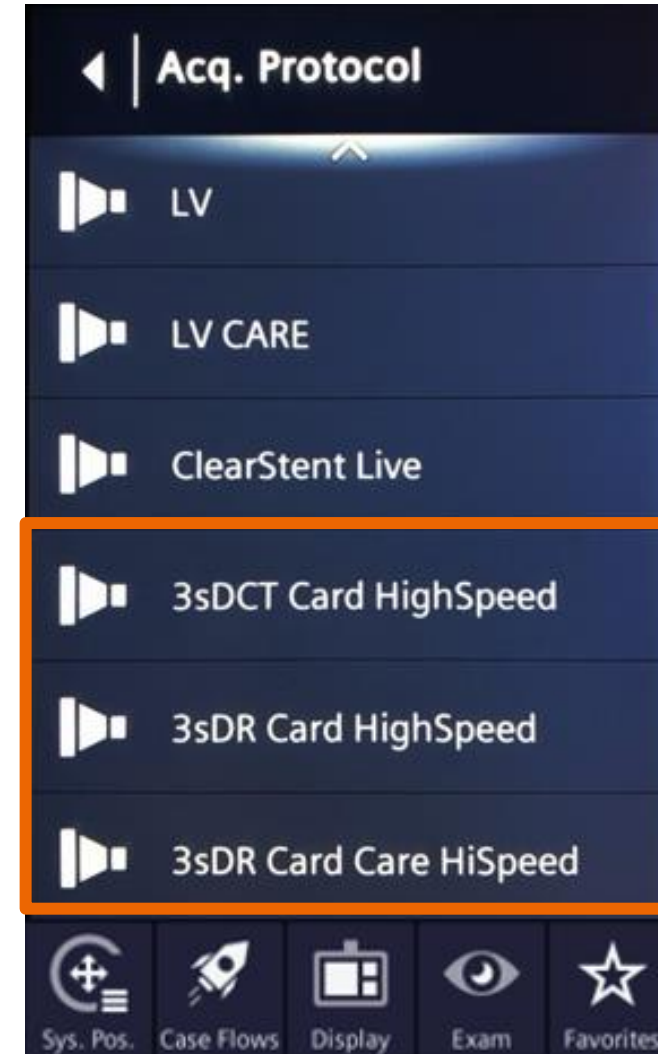
New with ARTIS VE40



New Cardiac OGPs

Faster cardiac 3D acquisition

- New 3D cardiac organ programs available with less than 3 second run
- Floor mounted C-arm supports new organ programs
- “3sDCT Card HighSpeed”, “3sDR Card HighSpeed”, “3sDR Card Care HiSpeed” organ programs are available
- Due to the shorter acquisition time, the organ programs have the potential to reduce the amount of contrast during the 3D acquisition and to reduce motion artefacts in the reconstructed 3D volume for Cardiac procedures



Potential to reduce contrast and motion artefacts with shorter acquisition time

ECG-triggered FL

New* with ARTIS VE40



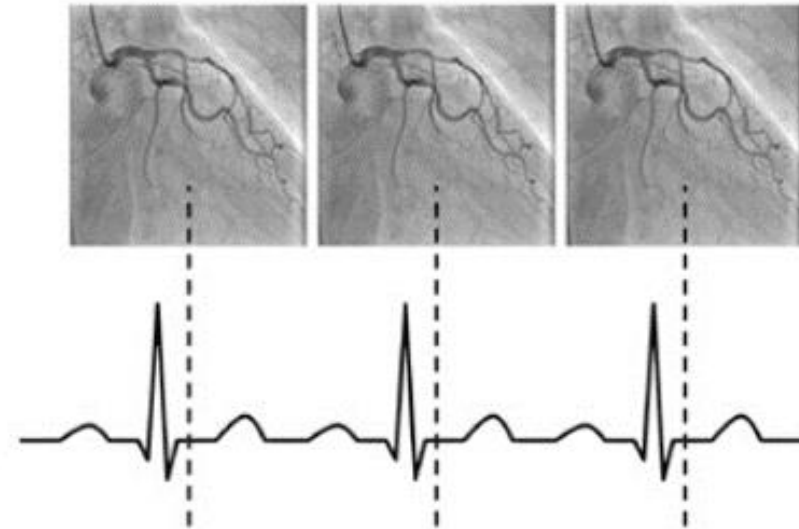
ECG-triggered FL

Display a steady catheter with low pulse rates

- R-wave-triggered fluoroscopic pulse release for motion reduction also for low pulse rate
- With ECG-triggered fluoroscopy a steady catheter display is possible even with moving objects. This potentially allows the use of low pulse rates and therefore results in lower dose as compared to standard fluoroscopy

ECG-trigger available in:

- ✓ CARD
- ✓ DR
- ✓ DSA



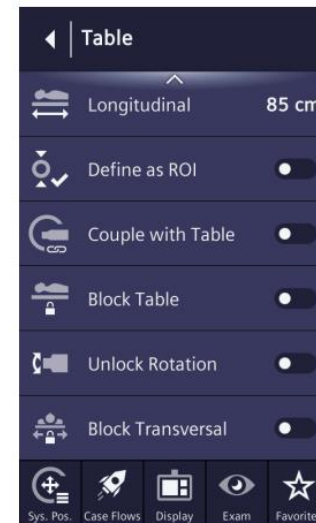
Rotation unlock via TCM & PCM

New with ARTIS VE40



Standard Table with rotation unlock via TCM & touchscreen in PCM

- With VE40 the standard table, rotational unlock also via the TCM or PCM is possible now
- The pedal for manual unlocking of the table rotation still exists



Foot-side Accessory Rail Below Table

New with ARTIS VE40



Foot-side accessory rail below table

- Accessory rail below the foot side of the table is available with standard and multi-tilt table
- The rail supports maximum weight of 20kg for accessories



DVD-Video Recording

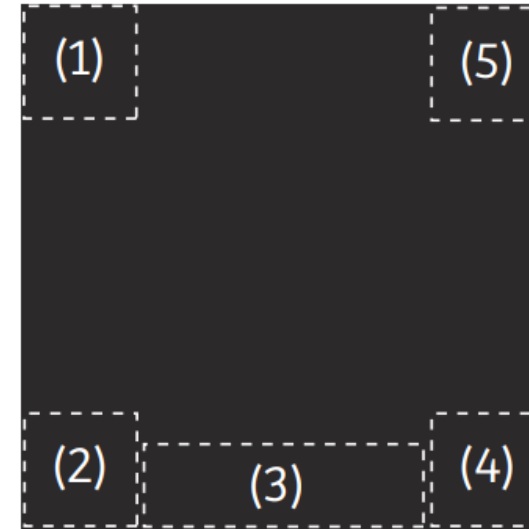
Improvement with ARTIS VE40



DVD-Video Recording

Dynamic image text into DVD video recording

- Dynamic image text elements displayed on live segments during X-ray are now included in the DVD video recording
- Examples of dynamic image text elements are exposure parameters or examination parameters, such as acquisition time, scene and image number



- (1) Patient and examination data
- (2) Exposure parameters
- (3) Room for slider, acquisition mode, message lines, and ECG display
- (4) Image parameters
- (5) System-specific information

EP-Display Improvements for Control Room Cockpit and Large Display

Improvement with ARTIS VE40



EP-Display Improvements for Control Room Cockpit and Large Display

Control Room Cockpit:

6 new layout grids for control room cockpit displays tailored for video integration of electro-anatomical mapping systems and recording systems are available supporting following video formats:

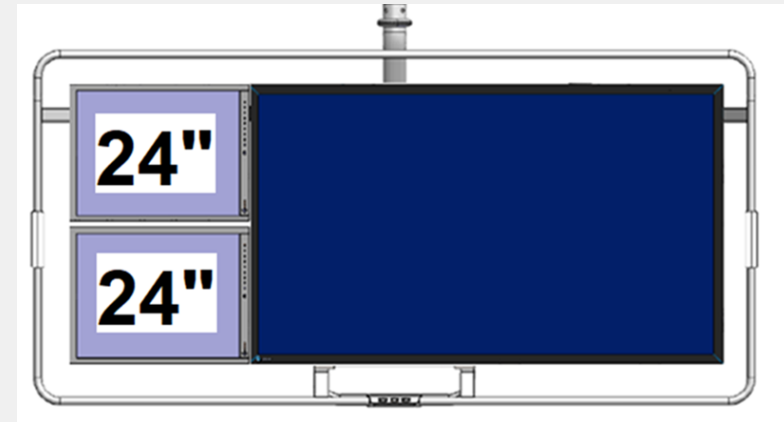
1600x1200, 1920x1080 and 1920x1200



Examination Room LD+2:

Extended DCS mounted in rails with LD+2 x 21"- or LD+2 x 24"-recording system displays are available *

Recommended for ARTIS icono (biplane)
EP systems



UI Improvements

Improvement with ARTIS VE40

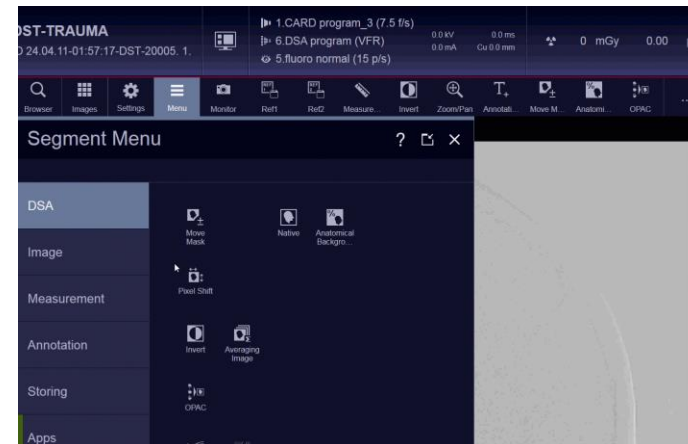
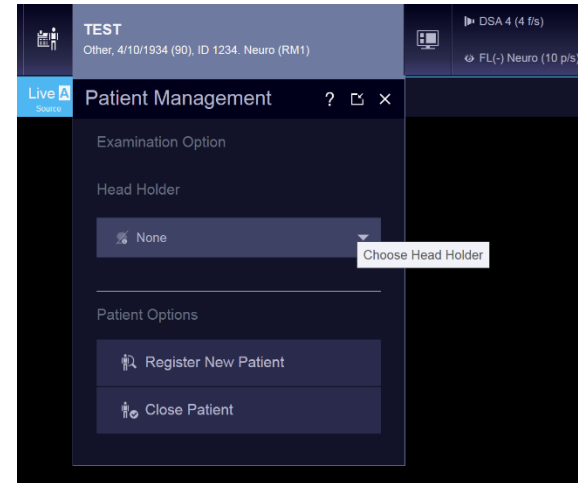


Head holder selection after patient registration:

- Ability to select or change head holder after patient registration is finished
- New drop-down list for selecting or changing the head holder in the patient management window

Drag & Drop Favorites:

- Easily drag & drop functions from the Segment Menu or Segment Settings to the Segment Header (Favorites Bar) in the desired order
- Quickly and efficiently rearrange icons in the Segment Header (favorites bar) using drag & drop



Reduced Energy Consumption

Information



Energy Efficiency with ARTIS icono: Systems Supporting Sustainability Efforts



**ARTIS icono reduces energy
consumption in use phase**

Compared to previous systems¹

35% reduction



**Save up to 4.600 € with
ARTIS icono biplane per year²**

Switching off the system overnight

23 MWh/year less

¹ | Compared to Artis zee and Artis Q systems according COCIR standard; 12-hr night user off + inactive days user off - 260 active (working) days; 105 Inactive (non-working) days ² | 4,500 € is approx. \$4,900. Yearly savings for "User Off" at night (12-hr night user off + inactive days user off - 260 active (working) days; 105 Inactive (non-working) days – based on a kWh price of 0.20 €/ \$ 0.22

Thank you for your enthusiasm!

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