ziehm imaging

ZIEHM VISION RFD
HYBRID EDITION

ZIEHM VISION RFD
THE NEW HYBRID EDITION*

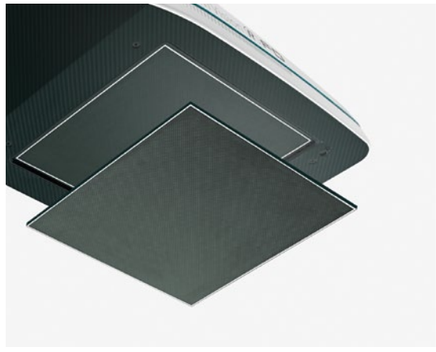
4 MOTORIZED AXES MOVEMENTS. FLAT-PANEL DETECTOR. 25 KW GENERATOR WITH LIQUID COOLING SYSTEM. DISTANCE CONTROL FOR COLLISION PROTECTION. POSITION CONTROL CENTER TO CONTROL MOTORIZED MOVEMENTS WITH A JOYSTICK.

The capabilities of the Ziehm Vision RFD Hybrid Edition* make it ideally suited for hybrid room applications. Compared to fixed installations, the C-arm has one crucial advantage: mobility. Due to its small footprint and easy maneuverability, the system is quickly up and operational, requires no room modifications and can be flexibly deployed in the OR.

* The Ziehm Vision RFD Hybrid Edition represents a group of optional hardware and software that creates an option package on the device named Ziehm Vision RFD.

FULLY DIGITAL FLAT-PANEL FOR OPTIMAL IMAGES

The Ziehm Vision RFD Hybrid Edition* is equipped with the latest digital flat-panel technology. It generates images with 65,536 shades of gray and excellent contrast. Image dynamics of up to 94 dB enable visualization of both soft tissue and bone structure. Compared to conventional C-arms, the 1.5 k x 1.5 k image resolution of the new Hybrid Edition* is significantly higher. It allows even smallest anatomical details to be precisely displayed.



The removable grid for dose reduction can be mounted to the flat-panel detector at any time with just one click.

IMAGING FOR CARDIOLOGY AND CARDIAC SURGERY

The dimensions of the flat-panel detector play a crucial role in OR ergonomics. The Ziehm Vision RFD Hybrid Edition* features a 20 cm x 20 cm flat-panel that represents the optimum size for a wide range of clinical applications, particularly in the field of cardiology and cardiac surgery. In addition to the miniaturized design of the flat-panel detector, the isocentric movement of the C-arm enables clinical interventions such as coronary angiography, heart valve replacements and pacemaker implantation.

MAXIMUM FIELD OF VIEW FOR VASCULAR SURGERY

Alternatively the Ziehm Vision RFD Hybrid Edition* features a 30 cm x 30 cm flat-panel detector. The generous field of view with a 30 cm side length provides comprehensive information with each examination. This enables the C-arm to deliver high quality X-ray images that were previously only possible with fixed systems. Demanding vascular procedures such as angioplasties and EVAR can thereby be performed with a mobile C-arm.

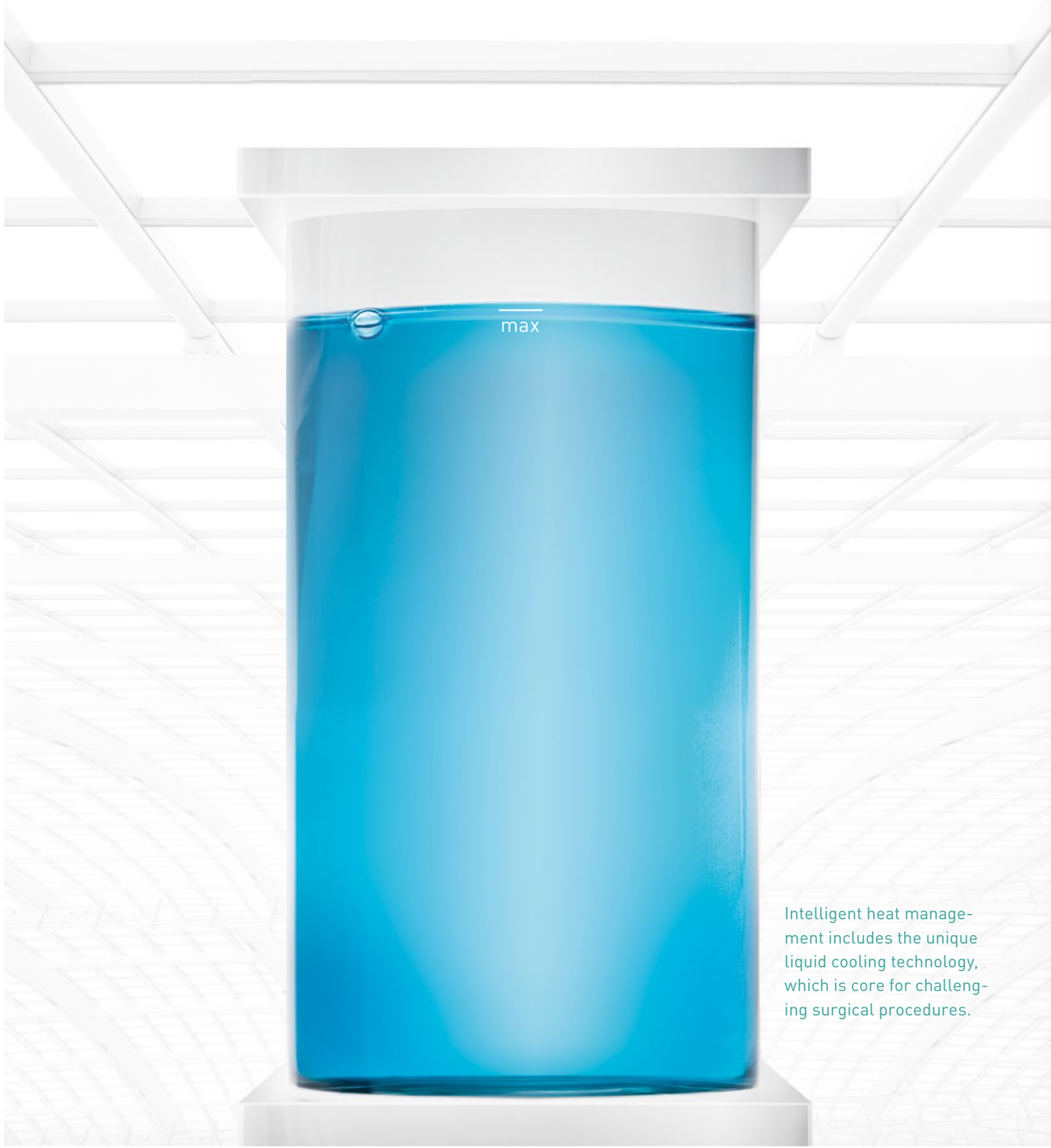
COMPACT AND POWERFUL

The newly developed monoblock generator with 25 kW nominal power in accordance with IEC60601-2-54 is one of the most powerful in the mobile field and delivers crystal-clear images. This outstanding imaging performance is particularly crucial for hybrid room applications. Despite its high power reserves, the generator features a very compact design that simplifies its positioning at the OR table.

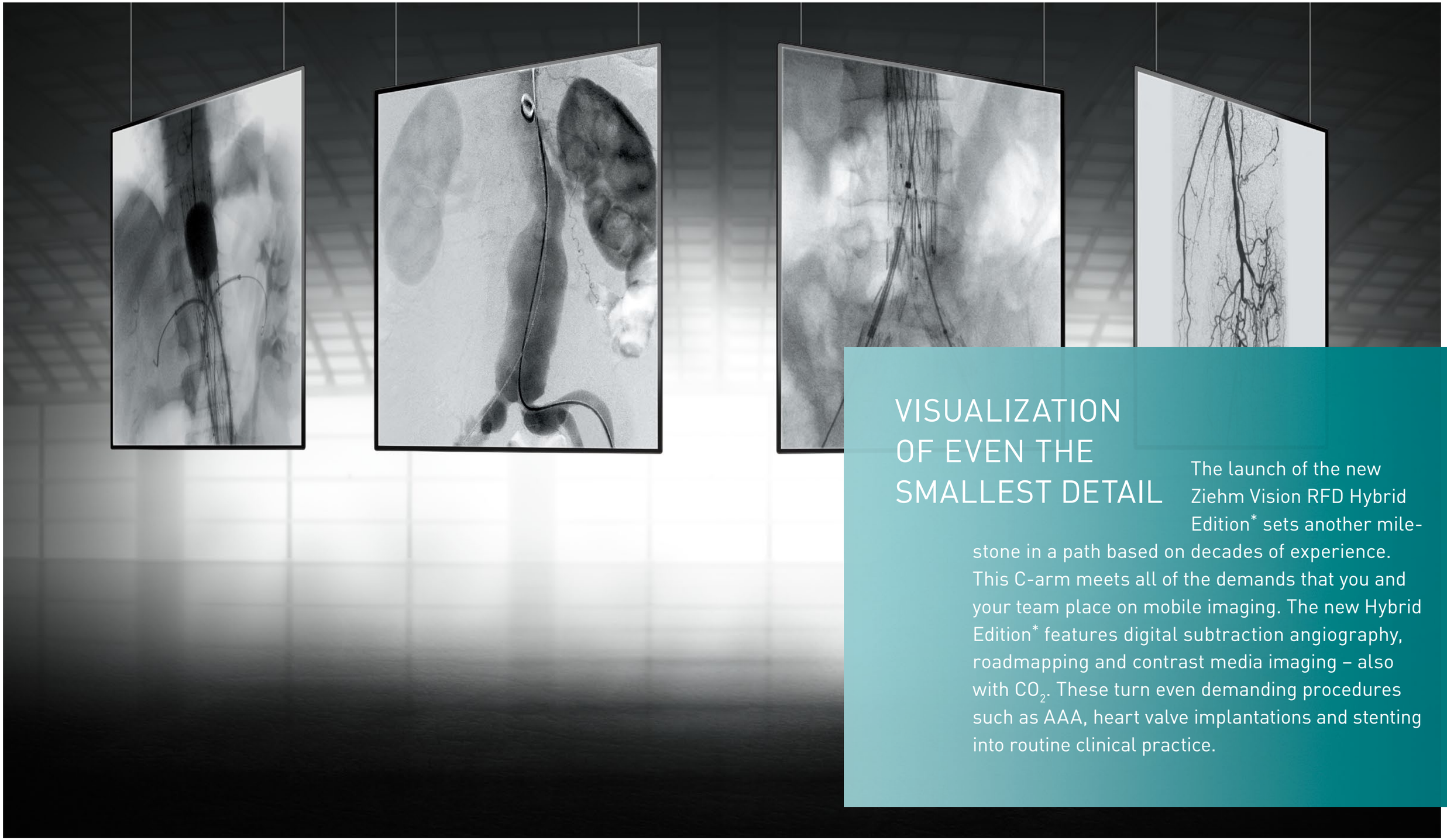
With dimensions of 15.7" x 15.7" x 7", the powerful generator only requires a minimum of space.

LIQUID COOLING FOR CONTINUOUS USE

The unique liquid cooling system Advanced Active Cooling keeps the generator at a consistent operating temperature and prevents system failure due to overheating. Even during complex applications such as TAVI, angioplasties and EVAR, this C-arm thereby delivers reliable results for the duration of the entire procedure.



Intelligent heat management includes the unique liquid cooling technology, which is core for challenging surgical procedures.

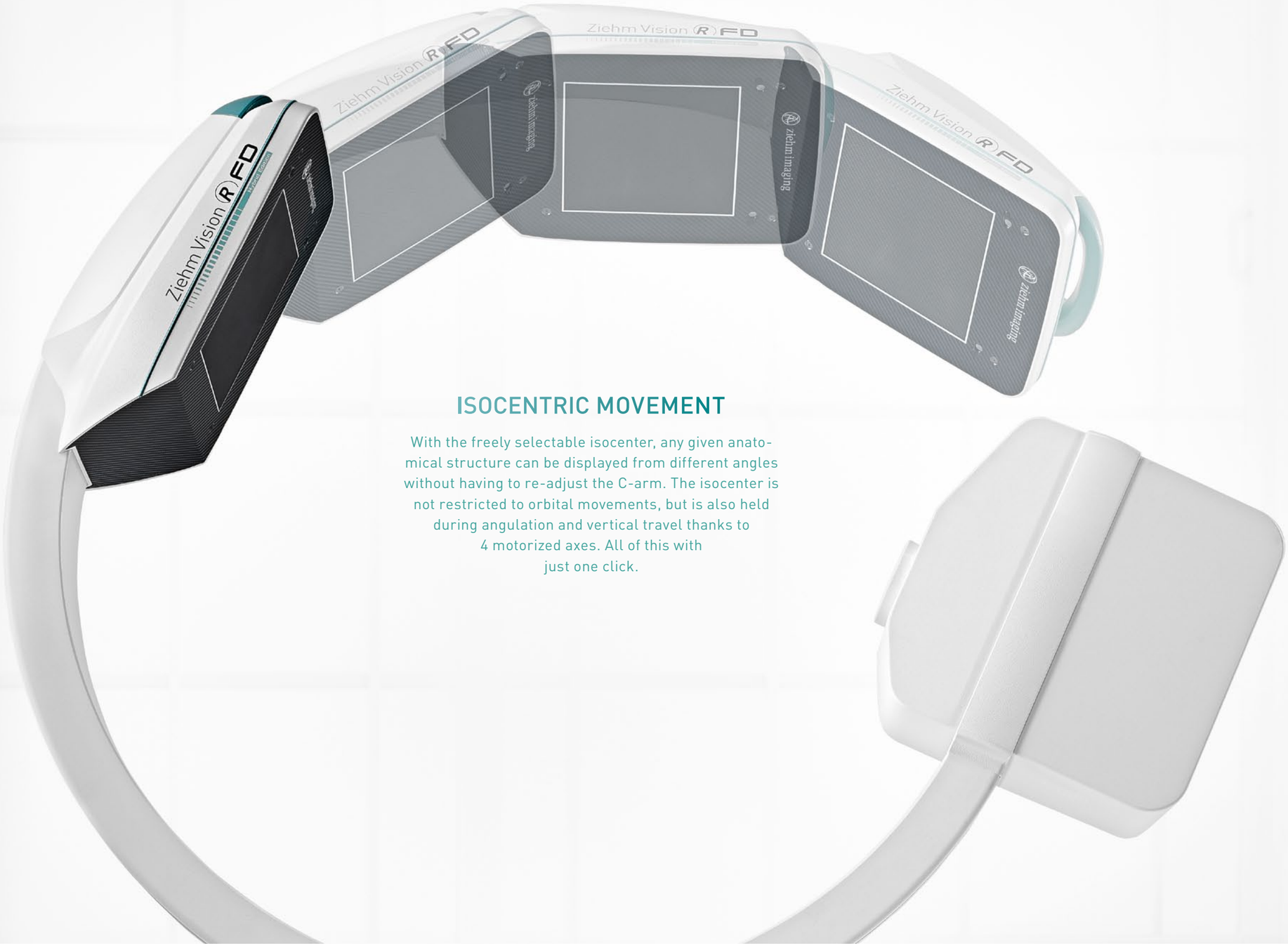


VISUALIZATION OF EVEN THE SMALLEST DETAIL

The launch of the new Ziehm Vision RFD Hybrid Edition* sets another milestone in a path based on decades of experience. This C-arm meets all of the demands that you and your team place on mobile imaging. The new Hybrid Edition* features digital subtraction angiography, roadmapping and contrast media imaging – also with CO_2. These turn even demanding procedures such as AAA, heart valve implantations and stenting into routine clinical practice.

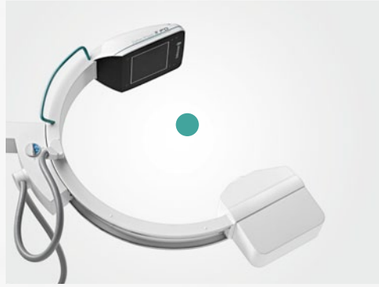
SUPERIOR IMAGE QUALITY

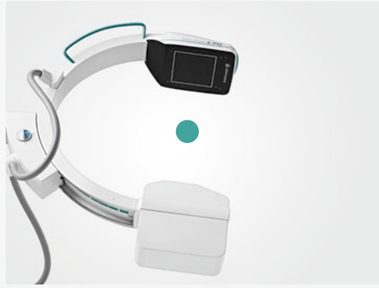
The Ziehm Vision RFD Hybrid Edition* uses dual 19" flat-screens, which are designed for highest demands in the OR. With a new design and a luminance of up to 1,000 cd/m², they provide more information per image than conventional monitors.

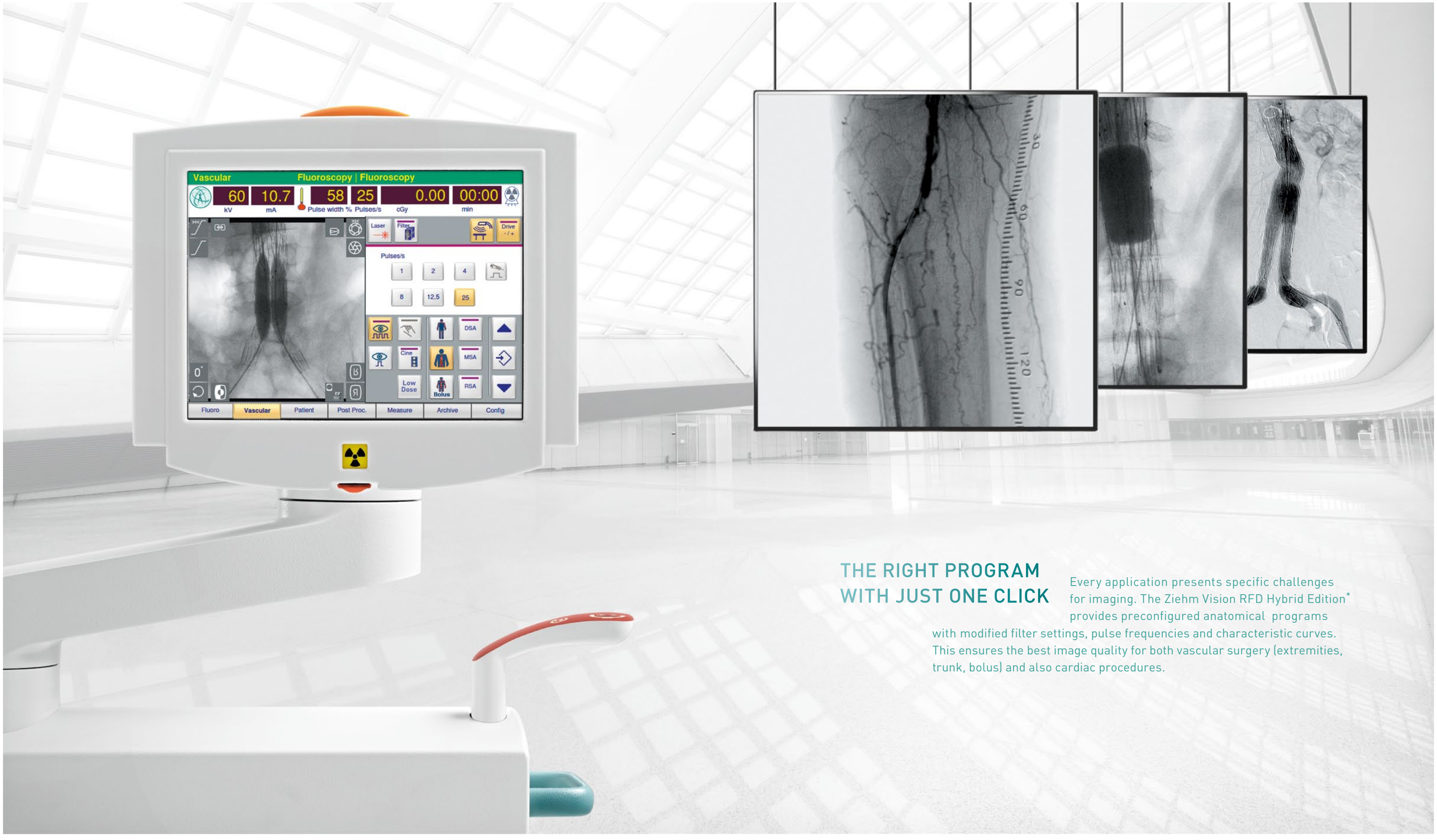


ISOCENTRIC MOVEMENT

With the freely selectable isocenter, any given anatomical structure can be displayed from different angles without having to re-adjust the C-arm. The isocenter is not restricted to orbital movements, but is also held during angulation and vertical travel thanks to 4 motorized axes. All of this with just one click.







THE RIGHT PROGRAM WITH JUST ONE CLICK

Every application presents specific challenges for imaging. The Ziehm Vision RFD Hybrid Edition* provides preconfigured anatomical programs with modified filter settings, pulse frequencies and characteristic curves. This ensures the best image quality for both vascular surgery (extremities, trunk, bolus) and also cardiac procedures.

The modular Position Control Center and Remote Vision Center can be mounted flexibly.

FULL CONTROL AT THE OR TABLE

The C-arm, including control of the 4 motorized axes, can be operated entirely via the Position Control Center (joystick module) and the Remote Vision Center (touchscreen). The control modules can be flexibly mounted to the sides of the OR table or to a separate stand thereby creating sufficient scope for sterile operation.

MOTORIZED MOVEMENT IN 4 AXES

For the first time a C-arm is equipped with motorization that allows control of 4 axes. The operator can use the Position Control Center to move the C-arm into the exact position desired. Operating the device right at the sterile OR table minimizes the time needed and guarantees maximum precision.

MEMORY FUNCTION FOR POSITIONING WITHIN SECONDS

The motorized C-arm features memory functions for 3 positions. These can be stored during the procedure and retrieved at any time. The system can thereby be repositioned precisely and fast. Additionally, the home button brings all movements back to the starting position.

MORE ROOM FOR YOU IN THE OR

The Ziehm Vision RFD Hybrid Edition* features a generous C-arm opening of 32.9" and an ergonomically designed flat-panel. At the same time, the C-arm occupies a footprint of only 8.6 sq ft, thus leaving adequate space for your OR team. This ensures a comfortable OR working environment even during interdisciplinary procedures.

SAFETY FOR YOUR PATIENTS

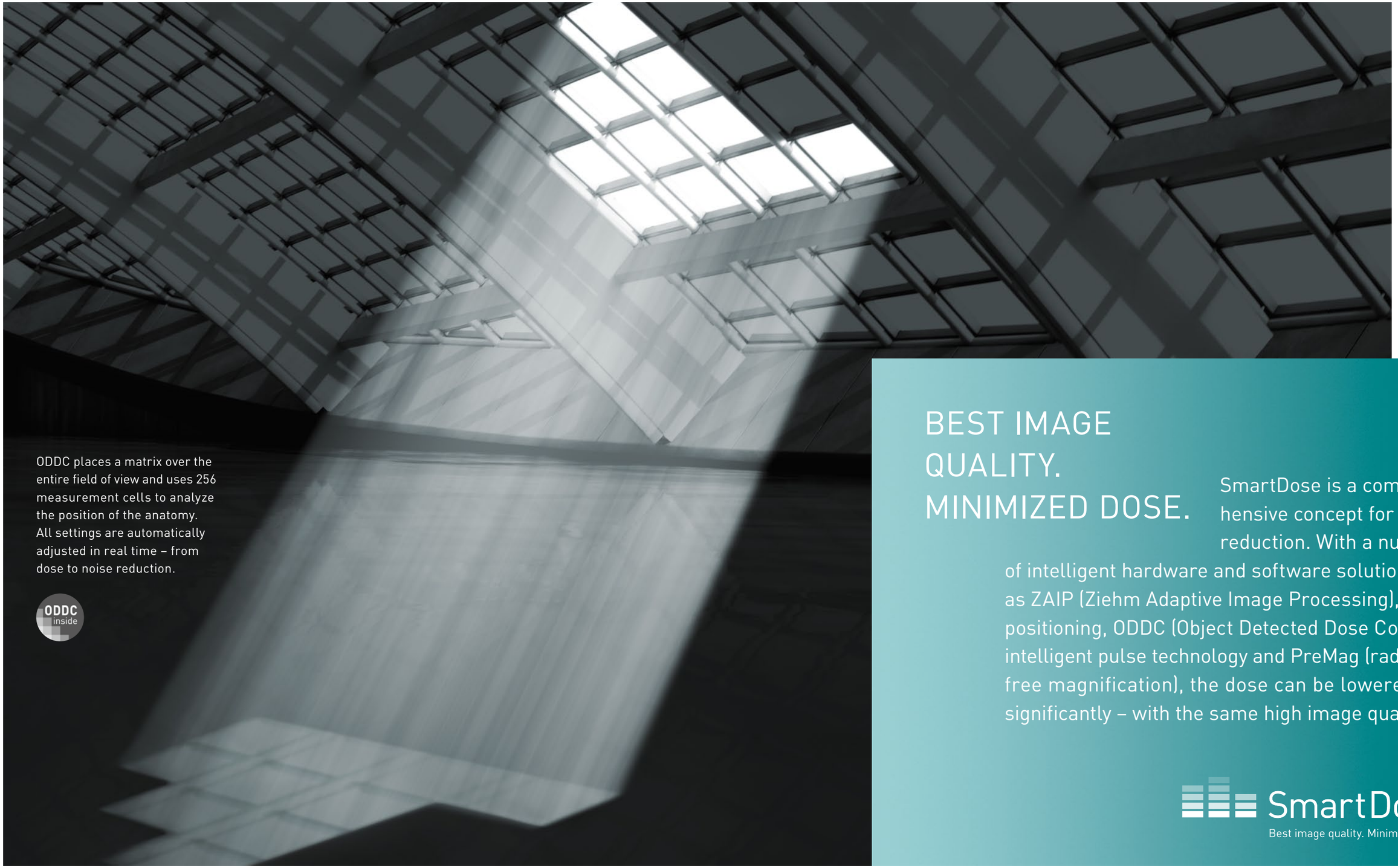
Patient safety is always top priority. Our motorized C-arms are therefore equipped with Distance Control – an assistance system supporting non-contact collision protection. The automatic surface detection is integrated around the lower edge of the flat-panel. In the patient's proximity, the motorized movement is slowed down. The movement stops immediately before entering a defined safety zone.

RELIABLE CONTROL

An intelligent safety feature prevents unintended movements of the C-arm: motorization can only be activated if the joystick is touched with at least two fingers. This means that the user must deliberately control the joystick in order to initiate movements of the C-arm.

COLOR-CODING FOR CLEAR COMMUNICATION

The Ziehm Vision RFD Hybrid Edition* features color coded brake handles. These enable straight-forward communication and clear instructions in the OR and minimize the chance of operating errors.



ODDC places a matrix over the entire field of view and uses 256 measurement cells to analyze the position of the anatomy. All settings are automatically adjusted in real time – from dose to noise reduction.

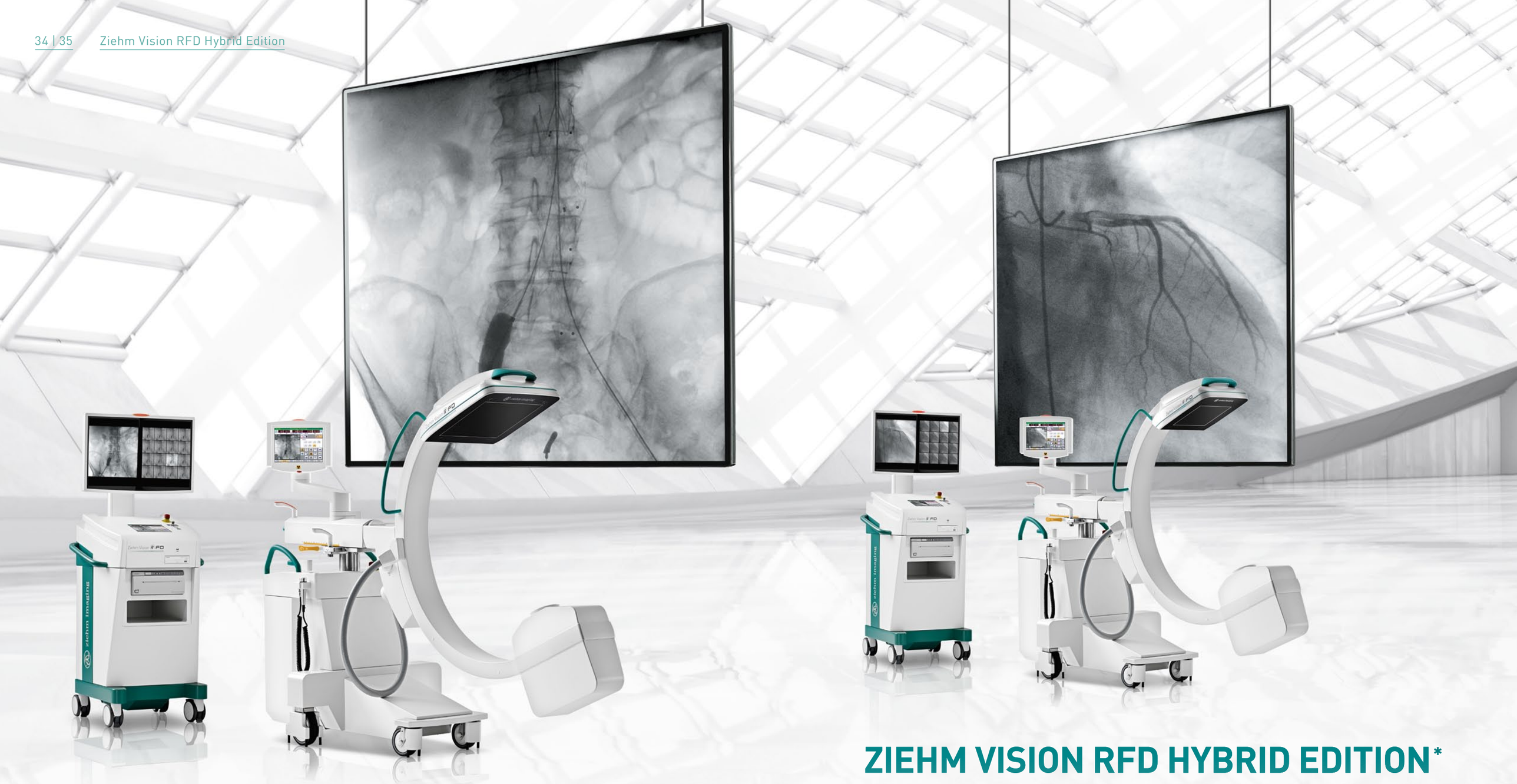
ODDC inside

BEST IMAGE QUALITY. MINIMIZED DOSE.

SmartDose is a comprehensive concept for dose reduction. With a number of intelligent hardware and software solutions such as ZAIP (Ziehm Adaptive Image Processing), laser positioning, ODDC (Object Detected Dose Control), intelligent pulse technology and PreMag (radiation-free magnification), the dose can be lowered significantly – with the same high image quality.**

SmartDose
Best image quality. Minimized dose.

** In clinical practice, the use of SmartDose may reduce patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. A consultation with a radiologist and a physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task.



ZIEHM VISION RFD HYBRID EDITION*

FOR THE MOST DEMANDING APPLICATIONS

SUCH AS CARDIOLOGY, CARDIAC SURGERY, VASCULAR SURGERY, INTERVENTIONAL RADIOLOGY, STENTING, EVAR, TAVI, CO_2, CORONARY IMAGING, ELECTROPHYSIOLOGY, ANGIOPLASTY, ETC.

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Visit the dedicated web special:
www.ziehm.com/hybrid-edition

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