

GE Healthcare

**Discovery IGS 730**

Rediscover space and movement





## Rediscover space and movement

The Discovery\* IGS 730 angiography system brings both extremely high-quality imaging and complete workspace freedom to the hybrid operating room.

Its unique mobile platform brings all the power of a fixed imaging system to the table, yet it can be moved aside, so multi-disciplinary teams can complete procedures comfortably, with unobstructed access to patients.

High-end fluoroscopy image guidance, advanced applications, 3D image fusion – it all comes on a sophisticated gantry that travels on predefined paths with laser-guided precision. Now one room accommodates a wide range of endovascular, cardiac, hybrid and open surgical procedures, free of interference from fixed floor or ceiling system structures.

The Discovery IGS 730 lets you:

- Rethink your possibilities with predictable motion and patient access
- Reinvent the way you work with high-precision imaging
- Re-evaluate your options with flexible room layouts







## Rethink your possibilities

With the Discovery IGS 730 gantry, nothing on the floor or ceiling obstructs your work or limits your mobility – your freedom is nearly absolute. An untethered, laser-guided gantry carries the imaging C-arm. You can move it to the table to image any part of the anatomy, then power it back, out of the way, to precise pre-chosen positions.







## Movable gantry puts clinicians in control

The Discovery IGS 730 provides full flexibility in your clinical space. Controls available at tableside and at the back of the gantry let you maneuver the system easily and conveniently. When in position for imaging, the gantry swivels around the table on a defined path, with precise laser guidance. Combined gantry and table movement enables you to stop and image at any point for coverage from head to toe.



### One-touch back-in and back-out means fully flexible procedures

With the Discovery IGS 730, you can truly have it both ways: Move the gantry to the table for imaging, move it aside when not needed – and all at the touch of a button. From five positions at the table, you can back the gantry out to up to seven predefined locations. Back-out distances are customizable to suit different room sizes.



### Customized parking provides the maximum freedom

When it's not needed for imaging, you can move the gantry aside completely, allowing complete patient access at the table and enabling easy room cleaning. You can pre-configure two parking spaces to suit your room size and shape.



### Teams work better with nothing in their way

The Discovery IGS 730 gives physicians, nurses, anesthesiologists and technologists ample space to work together effectively. Clinicians can position on either side of the patient according to preference. With the offset C-arm, the anesthesiologist can work comfortably at the patient's head.





# Reinvent the way you work

The Discovery IGS 730 brings outstanding imaging technology, with the added flexibility of a mobile C-arm. Enjoy the power of fluoroscopy for precise, real-time image guidance, 3D rotational angiography with CT-like imaging, fusion of prior 3D images from multiple modalities plus more than 20 advanced applications to help you plan, guide and assess your procedures.

## Great imaging starts with a great imaging chain

We designed the image chain to be dose-efficient while providing images rich with details. The 31 x 31 cm (12.2 in.) detector is the heart of a proven image chain entirely engineered and built by GE and providing Detective Quantum Efficiency (DQE) that ranks among the highest available. The detector is designed for a wide range of cardiovascular and interventional procedures; it also can cover both legs simultaneously and maintains capability for steep angulations.

## Lower dose by design

We never forget that you have a choice to make. The Discovery IGS 730 lets you choose the image quality you want while you strive for the lowest achievable dose. It starts with built-in dose efficiency. For example, with a longer source-to-body distance, the Discovery IGS 730 allows the X-ray beam to be more dispersed when it reaches the patient, enabling you to reduce skin radiation dose by as much as 10 to 15 percent<sup>1</sup>. Dose personalization, controllable from tableside, lets you choose your preferred protocols for the tasks you do every day, helping you provide personalized care. With our dose reporting tools, you can assess your current practices and learn how you can improve dose management.

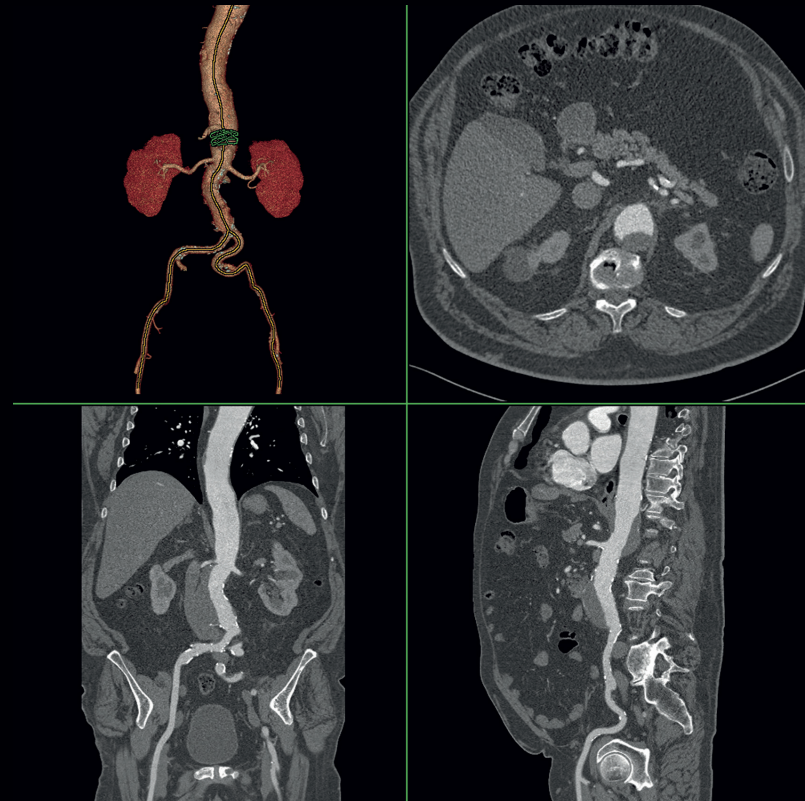
## A wide-bore C-arm expands your options

The Discovery IGS 730 has a maximum of 129 cm (50 in.) space between the tube and detector, as well as an offset C-arm. This combination greatly enhances flexibility. Now you can:

- Conveniently perform steep angulations, such as spider view for percutaneous coronary interventions, without compromising detector coverage for peripheral vascular and valve procedures.
- Perform rotational angiography with reduced interference from anesthesia tubing or monitor cables.
- Move the table without obstruction for off-center 3D acquisitions to image the borders of the liver or the skin line.
- Easily accommodate large patients.

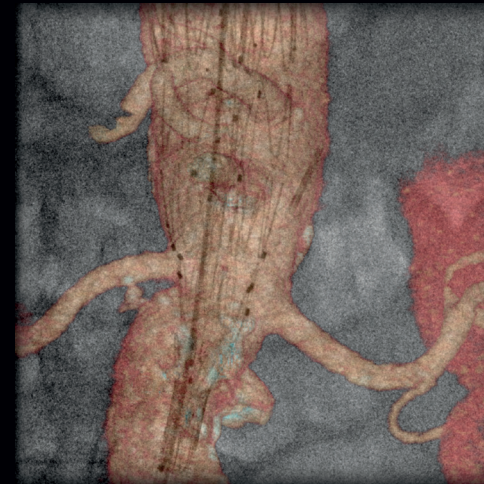
# Plan, guide and assess complex endovascular procedures with confidence

Endovascular aneurysm repairs can be delicate when dealing with complex anatomies. (T)EVAR Assist solutions let you plan, guide and assess challenging procedures with confidence.



## Plan

Plan with Volume Viewer Innova and VesselIQ\* Xpress, the Advantage Workstation CT vascular analysis software that delivers zero-click bone removal and tracking of the aorta, as well as key anatomy measurements.



## Guide

Guide your catheters with Innova Vision, which overlays 3D datasets from CT, MR or 3D rotational images on live fluoroscopic images in a single click. Pre-operative imaging can be overlaid without acquiring an intra-operative 3D image.



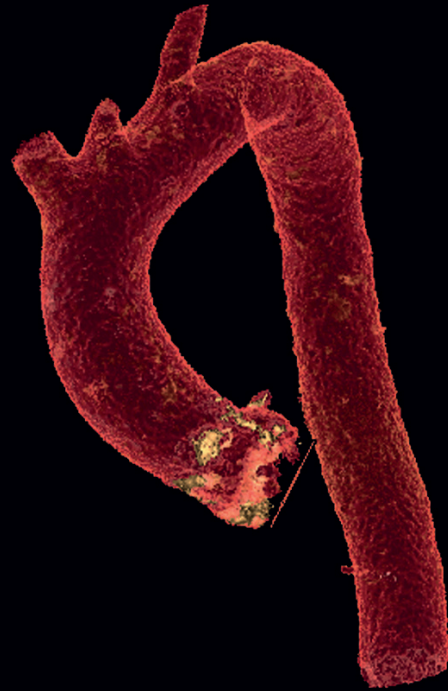
## Assess

Assess the endograft deployment with Innova 3D imaging, and follow up using semi-automatic sizing of the thrombus and a compare mode.



# Plan, guide and assess structural heart procedures with confidence

Transcatheter Aortic Valve Replacement (TAVR) or Transcatheter Aortic Valve Implantation (TAVI) demands meticulous, detailed planning. During the procedure, precise guidance and precise device positioning of the planned therapy are crucial. With Valve Assist solutions, you can plan and guide challenging procedures with confidence.



## Plan

Plan your therapy path and strategy with the valve planning protocol that lets you segment the aorta from iliac arteries to the aortic root to select the access route. You can also measure the aortic annulus and define the valve plane to help select the device size to implant. The Valve Planning Protocol lets you measure the distance between the valve leaflets and coronary ostia for planning the valve deployment.

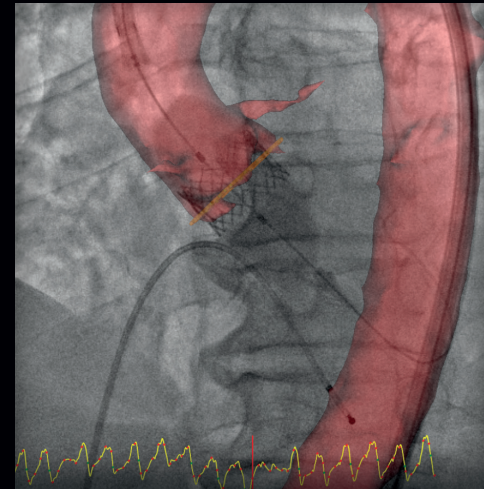
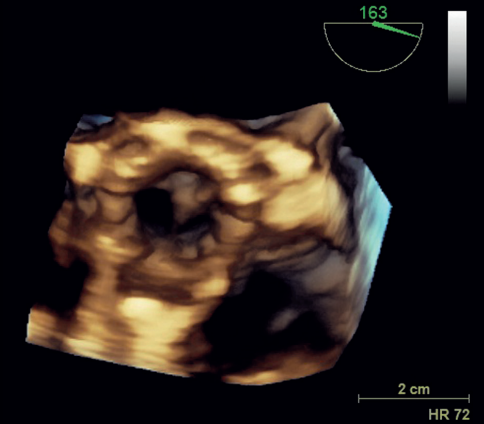


Image displays Edwards Sapien\*\* Aortic valve (P10004.1)

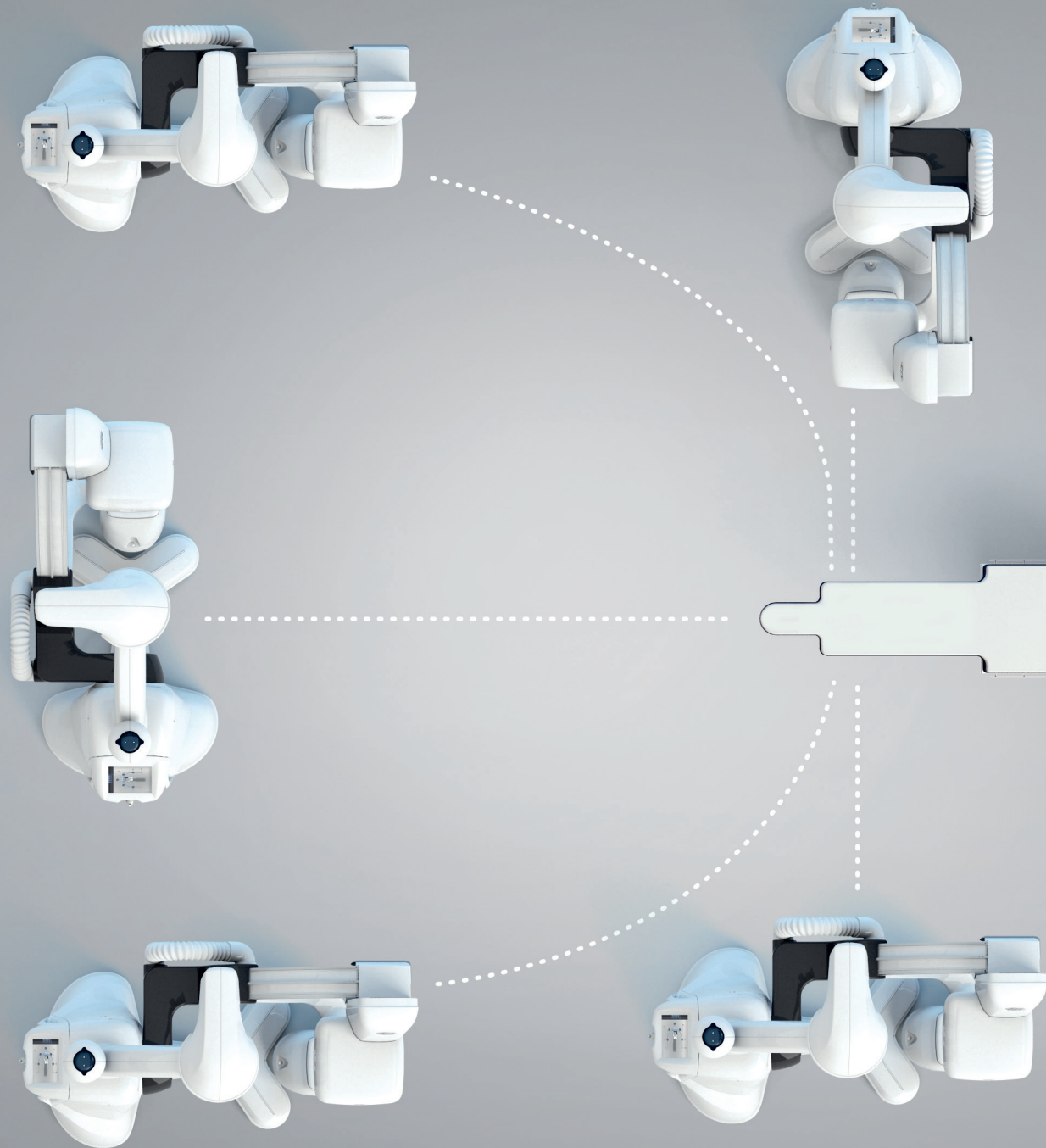
## Guide

Guide your device with Innova HeartVision, providing high precision for live 3D guidance to assist valve positioning and deployment, while minimizing motion with ECG synchronization and image stabilization.



## Assess

Assess the positioning of the device with both angiography and ultrasound.



## Re-evaluate your options

Use precious space well with flexible room designs. Build your room into a new fully functional hybrid OR, re-configure a small room, or re-purpose an existing room. You can install the Discovery IGS 730 in rooms as small as **35** square meters (377 square feet)<sup>2</sup>. You'll have the potential to increase the procedure mix in your OR with exceptional equipment for minimally invasive procedures.

### Brilliant machine. Support that never sleeps

We created OnWatch<sup>4</sup> to maximize your efficiency by ensuring that your Discovery IGS730 is operating when you need it to. OnWatch service measures key parameters from your equipment hundreds of thousands of times per day. It looks ahead to help limit disruption from unplanned downtime, creating a less stressful experience for you, your staff and your patients. This visionary technology drives progress in patient care, enhances efficiency and can help minimize the costs associated with downtime.



### Suspension-free design removes a source of contamination

The mobile gantry leaves the room ceiling suspension-free, helping prevent contamination from airborne agents. It allows laminar flow above the surgical field even when in position for imaging, helping to meet the criteria for ISO 5 classification<sup>3</sup>.



### Sterile draping adds protection

The detector and tube can be easily fitted with sterile covers<sup>4</sup> specially designed not to interfere with any gantry or detector motion. Sterile drapes attach quickly and easily inside the C-arm using four simple side-mounted clasps.



## About GE Healthcare

GE Healthcare provides transformational medical technologies and services that are shaping a new age of patient care. Our broad expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, biopharmaceutical manufacturing technologies, performance improvement and performance solutions services help our customers to deliver better care to more people around the world at a lower cost. In addition, we partner with healthcare leaders, striving to leverage the global policy change necessary to implement a successful shift to sustainable healthcare systems.

Our “healthymagination” vision for the future invites the world to join us on our journey as we continuously develop innovations focused on reducing costs, increasing access and improving quality around the world. Headquartered in the United Kingdom, GE Healthcare is a unit of General Electric Company (NYSE: GE). Worldwide, GE Healthcare employees are committed to serving healthcare professionals and their patients in more than 100 countries. For more information about GE Healthcare, visit our website at [www.gehealthcare.com](http://www.gehealthcare.com).

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Discovery IGS 730 with the Large Display Monitor and Dose Dicom SR cannot be marketed (including advertising and promotions) in Belarus, Bosnia, Canada, China, Croatia, Japan, Kazakhstan, Nigeria, Russia, Saudi Arabia, Serbia, Slovenia, Thailand, Ukraine and United Arab Emirates.

This equipment has not been pre-marketing registration approved yet and the shipment and the effective marketing can only occur when the registration is approved for the following countries: Argentina, Brazil, Colombia, Costa Rica, Mexico, Panama, Peru, Uruguay, Venezuela. Refer to your Sales representative.

- 1 Increased SOD (SOD = 82 cm) in Discovery IGS 730 enables a 10 to 15% of air kerma reduction at the interventional reference point compared to a system with an SOD of 72 cm, with detector dose maintained at the same beam quality (kVp and spectral filter). In clinical use, the results of the application of dose reduction techniques will vary depending on the clinical task, patient size, anatomical location and clinical practice. The Interventional radiologist, assisted by a physicist as necessary has to determine the appropriate settings for each specific clinical task.
- 2 35m<sup>2</sup> rooms can accommodate a maximum of 2 back-out. Space left for additional equipment may be limited.
- 3 According to simulations performed with a surgical monitors suspension using the open monitor suspension option.
- 4 Option may not be available in all countries, check with your local representative