Discovery IGS Rediscover space and movement



Rediscover space and movement

The Discovery™ IGS angiography system brings both extremely high-quality imaging and complete workspace ireedom to the hybrid operating room.

ts 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.

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The I • Ret moti • Rei high • Reiscovery IGS 730 is available with the GE ble or with the MAGNUS OR table system Maquet, so that you can choose the on that best fits your hybrid operating activity.

iscovery IGS lets you:

- nink your possibilities with predictable In and patient access
- ivent the way you work with
- precision imaging
- evaluate your options with flexible room ts

Rethink your possibilities

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Movable gantry puts clinicians in control

The Discovery IGS 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 GE OR 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, 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 seven positions at the table, you can back the gantry out to predefined locations. Back-out distances are customizable to suit different room sizes.

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Customized parking provides the maximum freedom

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

Teams work better with nothing in their way

Discovery IGS gives physicians, nurses, thesiologists and technologists ample space ork together effectively. Clinicians can tion on either side of the patient according reference. With the offset C-arm, the thesiologist can work comfortably at the ent's head. Additionally you can work with the em positioned slightly to the left to facilitate ss to the patient when using TEE.

Reinvent the way you work

The Discovery IGS 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 detector is the meart of a proven image chain entirely engineered and puilt by GE and providing Detective Quantum Efficiency DQE) that ranks among the highest available.

Optimal detector size for clinical versatility

With the 31 x 31 cm (12.2 in.) detector, the Discovery IGS 730 is designed for a wide range of cardiovascular and interventional procedures. You can perform steep angulations, such as spider view for percutaneous coronary interventions, without compromising detector coverage for peripheral vascular and valves procedures.

An exceptionally large detector

With its broad 41×41 cm (16.1 in.) digital detector, the Discovery IGS 740 system boasts one of the largest fields of view for endovascular imaging. The Discovery IGS 740 is available with the GE OR table only. A wide The Dis space offset of flexibil

Perforinterfer
Move

• Easily

Lower

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A wide-bore C-arm expands your options

- covery IGS has a maximum of 129 cm (50 in.) between the tube and detector, as well as an C-arm. This combination greatly enhances ty. Now you can:
- rm rotational angiography with reduced ence from anesthesia tubing or monitor cables.
- the table without obstruction for off-center 3D tions.
- accommodate large patients.

dose by design

er forget that you have a choice to make. The ery IGS lets you choose the image quality you want bu strive for the lowest achievable dose. It starts ilt-in dose efficiency. For example, with a longer to-body distance, the Discovery IGS allows the eam to be more dispersed when it reaches the , enabling you to reduce skin radiation dose by as s 10 to 15 percent¹.

Plan, guide and assess complex endovascular procedures with confidence

Endovascular aneurysm repairs can be delicate when dealing with complex anatomies. With (T)EVAR Assist solution, 3D imaging has never been this accessible.

Plan

Plan with VesselIQ* Xpress for CT that delivers zero-click bone removal and tracking of the aorta, as well as key anatomy measurements.

Guide

With Innova Vision, image fusion is not just for experts any more. Fusion is now easy enough to use routinely and precise enough to trust every time.

Assess

Make a first assessment of the endograft deployment with Innova 3D imaging for direct revision in case of endoleak.

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.

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'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 OnWatch⁴ to maximize your efficiency by ensuring that your Discovery IGS 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.

Siting in precious space

The Discovery IGS lets you use precious space efficiently. You can install the Discovery IGS in rooms as small as 35 m² (377 ft²) for a wider choice of siting options in situations where space is at a premium.

Sterile draping adds protectio

The detector and tube can be easily fitted with sterile covers^₄ 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.

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Suspe conta The ma susper from a the su helping

table design adds more flexibility

oms with a predominant catheter-based y, the GE operating room table provides cant advantages. The long tabletop (333 1 in) accommodates catheters as long (10 ft) and provides added space for g sterile items. With up to 170 cm (67 in) of idinal table travel, you can cover up to 189 in) of anatomy with table panning only. floating tabletop with power-assisted a facilitates panning for heavy patients. rails make it easy to attach accessories s surgical retractors or anesthesia screen

nsion-free design removes a source of nination

obile gantry leaves the room ceiling sion-free, helping prevent contamination rborne agents. It allows laminar flow above gical field even when in position for imaging to meet the criteria for ISO 5 classification³.

Expand your procedure mix while securing your OR utilization

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360° radiolucent table top

Full-fledge versatile table

The MAGNUS OR table system can be used stand-alone. It is a full-fledged, versatile OR table that meets al requirements of surgeons. Through the flexibility of different table tops⁵, it is possible to expand for further surgical procedures through advanced patient positioning adapted to meet the requirements of cardiology heart surgery, vascular surgery, neurosurgery, orthopedics and traumatology.

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About GE Healthcare

GE Healthcare provides transformational medical technologies and services to meet the demand for increased access, enhanced quality and more affordable healthcare around the world. GE (NYSE: GE) works on things that matter - great people and technologies taking on tough challenges. From medical imaging, software & IT, patient monitoring and diagnostics to drug discovery, biopharmaceutical manufacturing technologies and performance improvement solutions, GE Healthcare helps medical professionals deliver great healthcare to their patients.

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Discovery IGS 730 in the configuration compatible with the MAGNUS OR table system cannot be placed on the market or put into service until it has been made to comply with the Medical Device Directive requirements for CE marking. Not available for shipment. Discovery IGS 730, Discovery IGS 740 and products mentioned in this material cannot be marketed in countries where market authorization is required and not yet obtained. Refer to your cales representative. 1 Increased SOD (SOD = 82 cm/32.2 in) in Discovery IGS 730 enables a 10-15% of air kerma reduction at the interventional reference point compared to a system with an SOD of 72 cm/28.3 in with detector dose maintained at the same beam quality (k/y) 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 35m²/377 ft2 rooms can accommodate a maximum of two back-outs. Space left for additional equipment may be limited.

4 According to simulations performed with a surgical monitor suspension using the open monitor suspension option.

5 Only the 1180.16X2 carbon-fiber flat table top is fully integrated with Discovery IGS 730. Other table tops can be used for open surgical procedures, not involving the imaging equipment.

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