Discovery IGS
Rediscover space and movement

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The Discovery™ IGS 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 is available with the GE OR table or with the MAGNUS OR table system from Maquet, so that you can choose the solution that best fits your hybrid operating room activity.

The Discovery IGS 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 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 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.

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 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. Additionally, you can work with the system positioned slightly to the left to facilitate access to the patient when using TEE.
A wide-bore C-arm expands your options

The Discovery IGS 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:

• Perform rotational angiography with reduced interference from anesthesia tubing or monitor cables.
• Move the table without obstruction for off-center 3D acquisitions.
• Easily accommodate large patients.

Lower dose by design

We never forget that you have a choice to make. The Discovery IGS 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 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.

Great imaging starts with a great imaging chain

We designed the image chain to be dose-efficient while providing images rich with detail. The detector is the heart of a proven imaging chain entirely engineered and built 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 x 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.

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.
Plan, guide and assess complex endovascular procedures with confidence

Endovascular aneurysm repairs can be delicate when dealing with complex anatomies. With ITIEVAR 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.

Learn more on gehealthcare.com/evar
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.

Learn more on gehealthcare.com/tavi
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 OnWatch to maximize your efficiency by ensuring that your Discovery IGS is operating when you need it to. OnWatch service monitors 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 protection
The detector and tube can be easily fitted with sterile covers 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.

GE OR table design adds more flexibility
For rooms with a predominant catheter-based activity, the GE operating room table provides significant advantages. The long tabletop (333 cm/131 in) accommodates catheters as long as 3 m (10 ft) and provides added space for placing sterile items. With up to 170 cm (67 in) of longitudinal table travel, you can cover up to 189 cm (75 in) of anatomy with table panning only. A free-floating tabletop with power-assisted motion facilitates panning for heavy patients. Table rails make it easy to attach accessories such as surgical retractors or anesthesia screen holder.

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.
Expand your procedure mix while securing your OR utilization

For hybrid operating rooms with multidisciplinary surgical activity, the exceptional flexibility of the MAGNUS OR table system expands clinical breath to fit the needs of virtually any surgery and interventional specialty. Together with the Discovery IGS 730, it can help your hospital expand its services to attract more patients and physicians while securing the operating room utilization.

360° radiolucent table top
The Discovery IGS 730 is fully integrated with a 360° radiolucent table top, enabling catheter-based procedures to be performed while using the advanced imaging capabilities of the Discovery system, such as 3D angiography, cone-beam CT, and 3D fusion.
The MAGNUS OR table system can be used stand-alone. It is a full-fledged, versatile OR table that meets all requirements of surgeons. Through the flexibility of different table tops, 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.
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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data subject to change.
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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 sales 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 (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 35m²/377 ft² rooms can accommodate a maximum of two back-outs. Space left for additional equipment may be limited.

3 Option may not be available in all countries; check with your local representative

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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