

X-ray. The future. Now.

Discovery[™] XR656 HD X-ray system powered by Helix 2.0









Get the diagnostic clarity you need from that first X-ray

Helix[™] 2.0 advanced image processing delivers all of the benefits of Helix plus improved noise reduction and with Al-driven automated brightness and contrast—delivering **improved consistency despite variations** in exposure technique and challenging exam conditions.



Extraordinary anatomical detail at low dose in every X-ray image



Anatomy specific image enhancement for exquisite bone detail and clear delineation of soft tissue



Automated brightness and contrast regardless of variations in dose, patient positioning, field of view, and metal implants



Up to 40% increase in detectability* harnessing the ultra-high resolution and dose efficiency of FlashPad™ HD

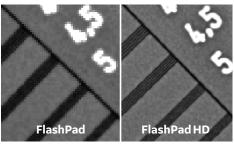
Don't miss a thing

Extraordinary anatomical detail at low dose in every X-ray image.

Helix 2.0 advanced image processing algorithms harness the full high-resolution power and exceptional dose efficiency of FlashPad HD detectors to deliver outstanding clarity and extraordinary anatomical detail where it matters most.

Double your resolution

Resolution test pattern image



The **FlashPad HD** detectors pack four times more pixels per area for sharp X-ray images. Plus, they capture extraordinary anatomical detail at low dose. Available in 10"x12", 14"x7", and 17"x17" standard cassette sizes.

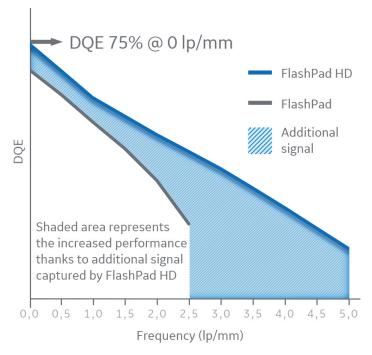


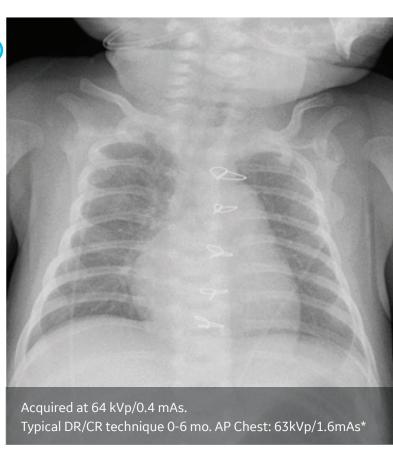


5 lp/mm resolution 100 micron pixel pitch

Exceptional dose efficiency for your tiniest patients (and the largest ones too)

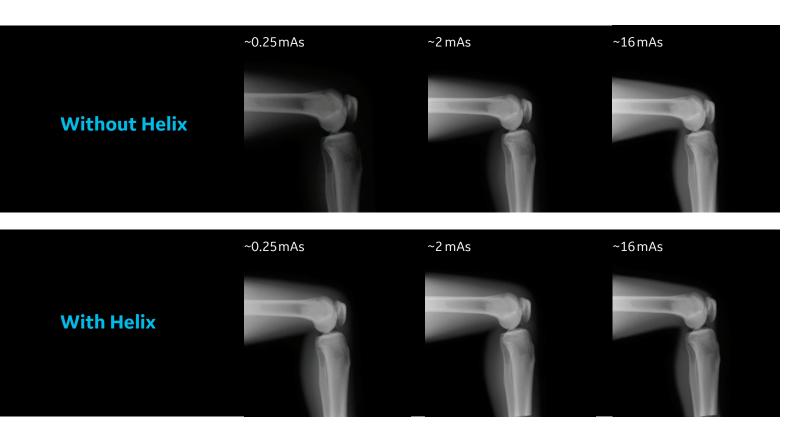
The ultra-high dose efficiency helps enhance diagnostic imaging quality at low dose for all patient types.





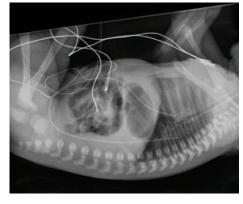
Consistent performance and presentation despite challenging exam conditions

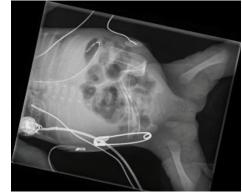
Helix 2.0 delivers consistent brightness and contrast across variations in dose exposure with Smart Windowing and enhanced contrast restoration.



Consistent performance despite variations in collimation and patient positioning with Helix 2.0

Intelligent collimator edge detection with outstanding accuracy in pediatric applications.





Excellent handling of metal implants

Clear bone-metal interface without halo artifact.



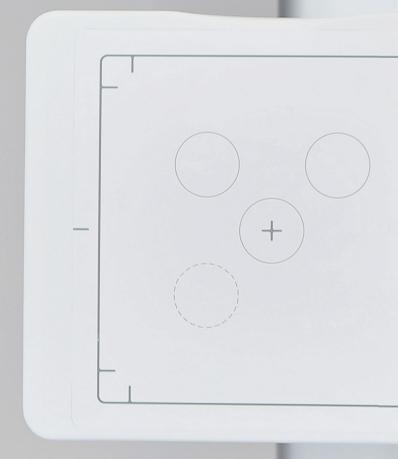
We know speed and efficiency matter













Comprehensive workflow automation suite

Fast and easy X-ray exams, effortless patient positioning

AutoRAD Suite offers an extensive set of automation and workflow enhancing features, to make exam setup fast, intuitive, and easy for X-ray technologists and comfortable for patients.



New user interface

Redesigned navigation and **QuickTools** for fewer clicks and intuitive operation



QuickCharge

Detector charging in the table and wall stand bucky



Auto field-of-view

Predefined collimation sizes for each view



Auto protocol assist

Automatic selection of anatomy and technique based on modality work list



High-precision auto positioning

Preset and programmable positions for effortless exam setup



Auto-tracking

Maintain SID and tube-detector alignment with table and wall stand receptor automatically



QuickShare

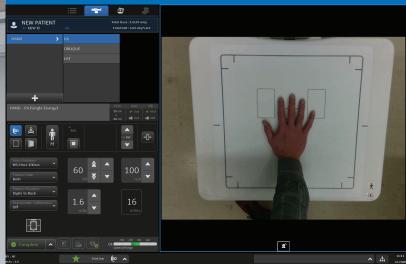
Hassle-free sharing and pairing of multiple wireless detectors

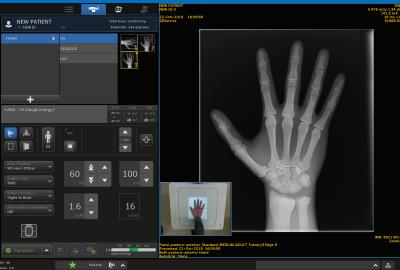


QuickConnect

Automatic wifi channel switching to avoid wireless interference



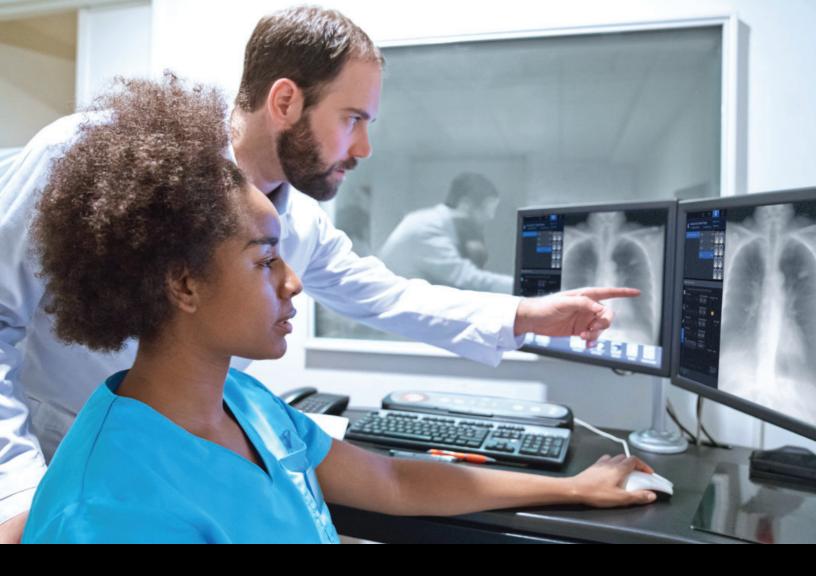




Live Streaming Patient Video

The Discovery XR656 HD with live streaming patient video keeps technologists' eyes on the patient for a greater portion of the exam, helping to monitor patient safety and potentially reduce rejects that stem from patient motion.

- User interface puts the camera view front and center
- At the time of image preview, the camera view moves to a smaller area of the screen
- Streaming window can be maximized (1140x1140) or minimized (320x240)
- 720p HD resolution
- 30 frames per second



VolumeRAD Digital Tomography

VolumeRAD Digital Tomography creates multi-level image slices that provide similar data to CT at very low doses. VolumeRAD helps improve clinical diagnosis of doubtful findings seen on routine radiographs by removing superimposition and overlying structures—all while increasing diagnostic confidence with your X-ray equipment.

Metal Artifact Reduction

Metal implants often cause difficulty in advanced imaging that result in artifacts, such as streaking and ring artifacts. Flexibility in acquisition, relative to the anatomy and Metal Artifact Reduction algorithms, removes these effects and helps:



Weight bearing exams



Pediatric obstructions



Orthopedics with metal







Dual Energy Subtraction

Dual Energy Subtraction moves beyond image processing to create bone and soft-tissue images based on the physical interaction of the X-rays with the anatomy.

Improved assessment of chest pathology

Dual Energy Subtraction enables physicians to remove the bones from a PA/AP chest image leading to the detection of abnormalities that may have been obscured by bones in a conventional radiograph

See more than in a standard radiograph

The bone image is powerful on its own, enabling the radiologist to more clearly visualize calcified information for a given abnormality.

Reduced opportunity for patient movement

Dual Energy acquisition of two images is taken less than 160 milliseconds apart.

In less than a few seconds, Dual Energy Subtraction can help to eliminate obstructions from overlying bones while providing additional information on calcifications in chest studies.



Auto Image Paste Seamless long bone and spine imaging at the wall stand and table

One fast, precise, and highly automated exam.





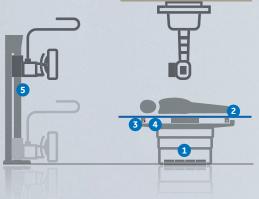


Without AutoSpine With AutoSpine With AutoSpine

Auto Image Paste has been enhanced with AutoSpine—an intelligent pasting algorithm that follows the contour of the spine for vertical equalization—enabling a natural balance of brightness and contrast along the patient body.



A bariatric X-ray table capable of supporting up to 400 kg/882 lbs* that lowers to 50cm/20 inches.



Extensive patient safety features

- 1. Double-tap safety foot pedals (table and wall stand)
- 2.Safety switches to disable motion during patient transfer
- 3.Two emergency stop buttons
- 4. Anti-collision and anti-pinch sensors on table, wall stand, and ceiling suspension
- 5. Electromagnetic brakes securing vertical motion of wall stand
- * Table weight limit: 400 kg/882 lb static and 320kg/705 lb dynamic (elevating).





Data isn't just about looking backwards—it helps you plan the future.

X-Ray Quality Application

Identifying root causes and enabling action.

Discovery XR656 HD is compatible with GE Healthcare's X-Ray Quality Application which is built upon the Edison Platform.

X-Ray Quality Application is an **on-premise enterprise solution** which automatically collects, aggregates, and reports quality assurance data to tackle X-ray rejects, exposure/deviation indices and detector QAP test results. Uncovers the root cause of rejected X-ray exams, paving the way for targeted training, improved efficiency, and reductions in unnecessary patient dose.

iCenter asset management software platform

Optimize utilization of your X-ray equipment. Balance workload using the full power of healthcare data analytics.

iCenter empowers you with data and analytics for valuable insights into the utilization and workload of your X-ray assets—to help when making strategic decisions concerning workflow optimization.







X-ray service and support

Our X-ray systems, applications, and support never rest, so you can focus on your patients.

GE X-ray machines are fully supported by expert field engineers you know and trust. Our advanced service technologies* help you maximize uptime and ensure your X-ray system is ready when you are.

InSite™remoteconnectivity

Remote diagnostics and troubleshooting for fast resolutions, often without a field engineer visit.

Remote applications assistance with engineer connecting online in real time.

Proactive monitoring, helping detect issues so they can be resolved before downtime occurs.



Education

Get the education you and your team need to stay sharp.

From intensive technical and clinical product training to our extensive continuing education opportunities for technologists and radiologists, we can help you meet your training needs, online and onsite.



