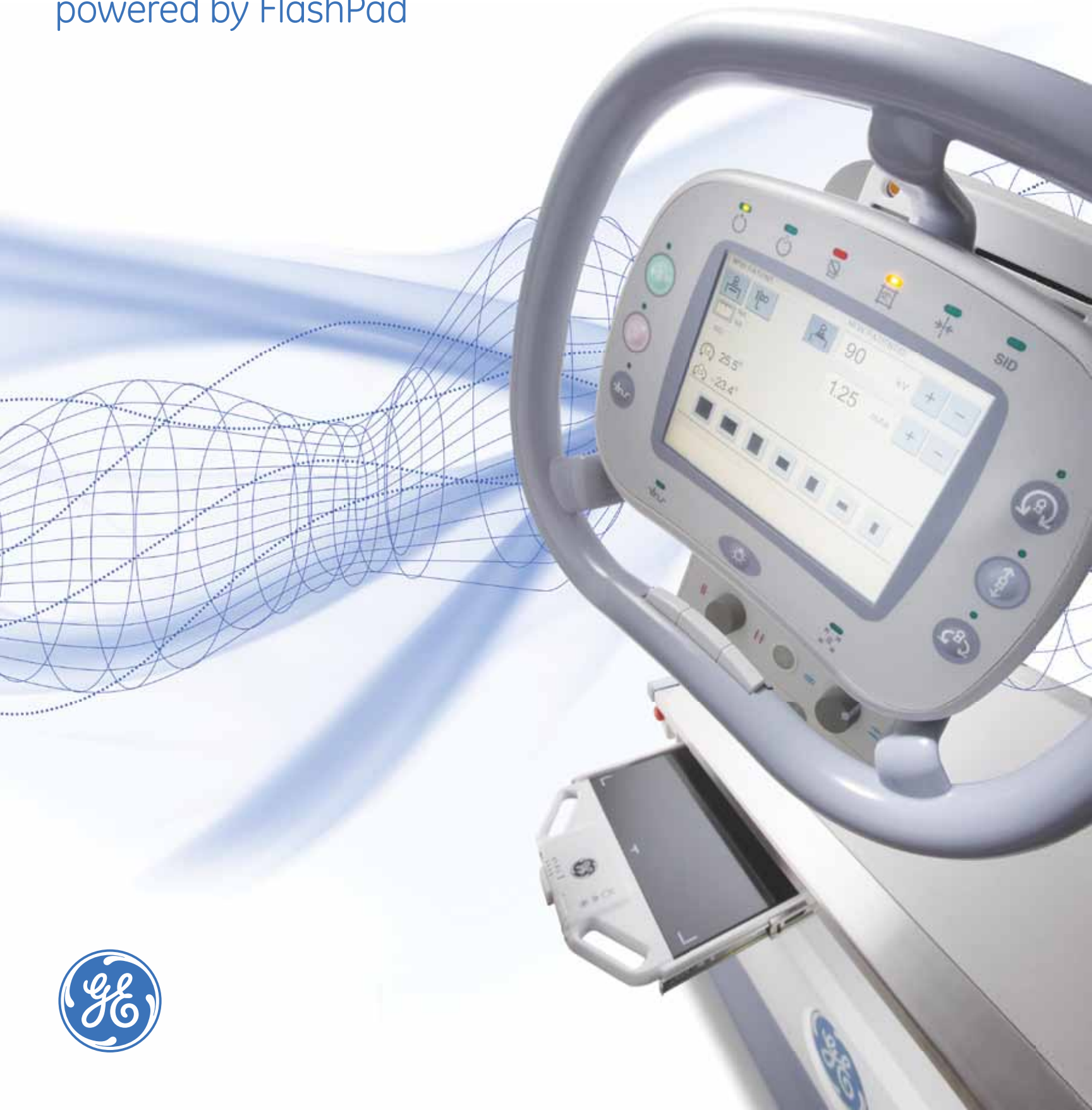


GE Healthcare

Discovery XR656

Advanced digital radiographic system
powered by FlashPad



Discovery* XR656 lets you enjoy productivity and workflow benefits thanks to FlashPad*, a wireless detector that was designed—from the beginning—for advanced digital imaging. Our suite of advanced clinical capabilities helps you address complex clinical needs while differentiating your facility from others.

Step up to the world of

Advance your clinical capabilities

VolumeRAD*

- Provides multiple images of the anatomy in a single sweep at a low dose, including chest, abdomen, extremities and spine.
- Remove overlying structures; enabling a better visualization of the anatomy from front to back.
- Reconstruction of data displays a set of images parallel to the detector panel; enabling you to display coronal images of interest.

Dual Energy Subtraction

- Acquire multiple images within milliseconds at different energy levels.
- Process and view the image as a standard radiographic image, an image with bones “subtracted,” and an image of just the bones to highlight foreign objects or calcified structures.

Auto Image Paste

- Acquire multiple images in one fast, seamless, highly automated exam.
- Receive automatic stitching of the acquired images in a single composite image.
- Perform these exams at either the wallstand or the table.

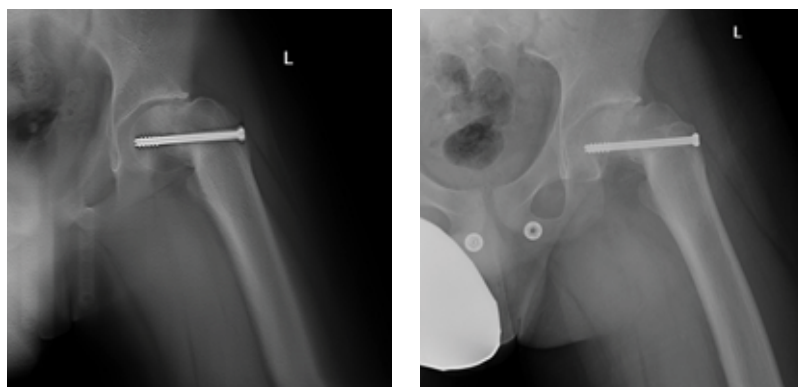


freedom



GE Healthcare's advanced applications⁺ open access to areas of uncertainties, helping you uncover information previously hidden within conventional 2D radiographic imaging. The following cases are examples of how GE's clinical tools can play a positive role—even in routine, everyday cases.

Patient stories



Had an implanted screw invaded the hip joint space?

A 13-year-old patient arrived post-surgical with extreme hip pain. An AP hip radiograph was taken, but did not allow enough clinical information to determine the screw-placement status.

VolumeRAD study ordered.

VolumeRAD allowed removal of overlying structures, helping to enable a confident diagnosis.

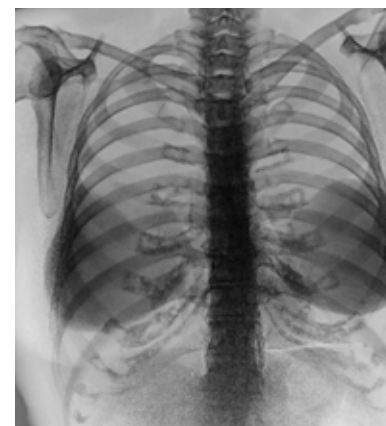
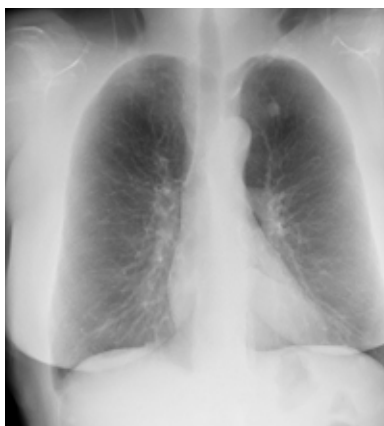
The definitive answer: no.

A single-slice interval from the VolumeRAD data revealed that the implanted screw had not invaded the joint space. The patient underwent secondary surgery and proper implant placement was confirmed.

⁺ The images displayed in this brochure were obtained using GE's fixed digital detector. GE advanced applications are performed on the Discovery XR656 with the FlashPad detector docked in either the table or wallstand.

say it best





Is it bone growth or a tissue lesion?

A patient at a hospital in St. Louis, MO., presented with a historic chest x-ray showing an anomaly in the left upper lung lobe as a bone growth, rather than as a tissue lesion.

Dual Energy Extraction applied.

Through a Dual Energy Subtraction chest exam, the bony anatomy was removed from the images, increasing the visibility of the tissue-based anatomy.

Definitive diagnosis achieved.

A 12 mm nodule was discovered directly behind the area of concern, ruling out the rib-related bony growth. Digital radiography with Dual Energy Subtraction may have helped lead to a definitive diagnosis.



What was causing blood in the urine?

A patient presented with gross hematuria. To confirm the cause, hospital staff turned to VolumeRAD, choosing this tool over CT.

VolumeRAD study ordered.

Staff initially chose a 20 min radiograph, then considered different options.

Definitive diagnosis achieved.

The single 4 mm slice interval image revealed a lobulated mass in the left paramedian aspect of the bladder. The radiologist stated the following: The increased coronal spatial resolution of the digital rad image helped confirm diagnosis; and, the ureter entering the bladder was clearly visible.



Was it a mass causing this patient's symptoms?

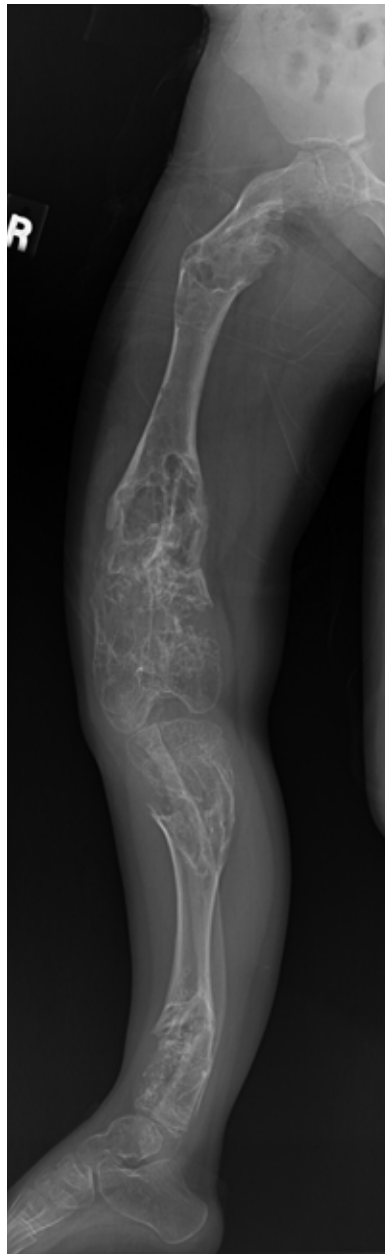
A 49-year-old patient presented in the emergency department with chest pain, nausea and vomiting. Initial PA chest images were negative.

Dual Energy Extraction applied.

A Dual Energy Subtraction chest exam subtracted calcified structures from the PA image, and a mass was identified in the esophagus.

Definitive diagnosis achieved.

A congenital or acquired out-pouching of the esophageal wall was discovered and diagnosed as an esophageal diverticulum. Later, a CT exam confirmed the diverticulum.



How do advanced applications work in unique situations?

A 6-year-old patient with multiple lytic lesions, Ollier's disease, could not stand properly for a traditional upright image paste protocol. The pathology required an alternate imaging method: several images were acquired while patient was lying flat.

Desired image created.

Using Auto Image Paste, multiple low dose images were obtained and pasted into a single image using the recumbent table paste mode.

Improved productivity achieved.

The Auto Image Paste software on the hospital's radiographic system allowed non-upright pasting imaging. Total exam time: under 4 minutes. The hospital realized a 70 percent reduction in total time as compared to a previous study using a long cassette.

At the heart of the Discovery XR656 is FlashPad, GE's wireless, digital detector. FlashPad is unique in that it can be shared with other compatible GE digital radiographic products. Freedom to share makes your detector a sound investment today and into the future.

FlashPad uses Ultra-Wideband technology to help ensure an independent, secure and reliable connection while seamlessly coexisting with your hospital's networking infrastructure.

FlashPad is designed for digital use and built for reliability. Its two handles enable a secure grip.

FlashPad

Digital radiography delivers







Configure your workflow

You can choose the configuration that best meets your clinical needs: a table, wallstand, or table and wallstand with either a single or dual detector offering. And, because FlashPad can be shared, a single detector can be all you need.

Keep your patients comfortable. Capture images efficiently.

Discovery XR656 configurations give you options for managing challenging imaging situations, such as wheelchair-bound, physically limited, elderly and trauma patients. GE's FlashPad wireless detector frees your technologist to position quickly and easily to obtain complex views.

The Discovery XR656 also has additional features and options that align to your clinical environment to drive productivity and workflow. The in-room handheld remote control enables you to control major system functions and change setups for multiple exams without leaving the patient's side.

Gain control over your workflow

GE's advanced automation, advanced clinical tools, intuitive interfaces and seamless transitions between image receptors help remove the barriers that can inhibit workflow.



Overhead Tube Suspension Touchscreen Display

Execute fast, easy setup and changes with the convenient user interface located at the overhead tube suspension.

Auto Positioning/Auto Tracking

Automatically drive the overhead tube suspension, wallstand and/or table to preset positions to help increase productivity and ease of use.

Auto-Field of View (optional)

Help enhance productivity by linking protocol views with image sizing. Users can now customize views by setting the collimation sizes for all exams. Automatically set the collimator blades for individual clinical view. Minimizing the final collimator adjustments prior to taking the exposure reduces set-up time.

Repeat/Reject Analysis (RRA) Software (optional)

Evaluate staff performance and quality assurance efforts by capturing exam performance.

Auto-Protocol Assist (optional)

Through the RIS interface, protocols are automatically selected and initiated, allowing the technologist to spend more time with the patient.

Auto-Processing and Image Distribution

Achieve anatomy-based customization of images to match your clinical preferences. After initial QC, automatically send images to the desired locations on your network.

We realize that an investment in a digital detector is an important capital investment. With GE's AssurePoint* Services portfolio, we'll keep you satisfied.

Service by your side



AssurePoint Service gives you flexible, cost-effective maintenance solutions. Our team responds to support calls quickly so that you can maintain high uptime. We want you to be confident that your equipment will run smoothly, allowing staff to care for your patients in the best possible way, and remain productive.

Utilization Reporting provides a dashboard and detailed reports to help you analyze system performance, capturing the utilization ratio for each applicable system, the average number of procedures per individual, the study types, volumes, and more.

The Detector Healthpage allows you to monitor your daily use of the FlashPad detector. It has the ability to record events that are related to drops and bumps of the detector during use.



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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 “healthmagination” 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.

GE Healthcare
3000 North Grandview
Waukesha, WI 53188
U.S.A.

www.gehealthcare.com



imagination at work