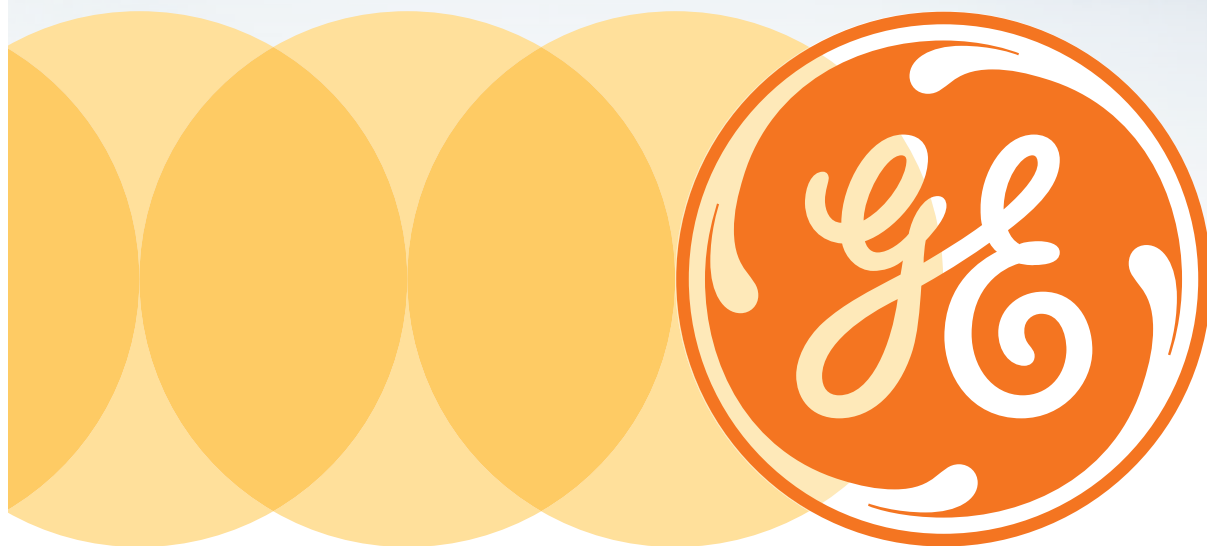


GE Healthcare

Optima XR646

Optimized for the way
you work.





Optima XR646 Optimized for the way you work.

Effectively address and overcome daily imaging challenges with the GE Optima* XR646—a digital radiography system featuring the FlashPad* wire detector. With the Optima XR646, technologists can feel good about the easy, efficient exams they conduct knowing their patients are comfortable, their radiologists are confident, and their facilities are competitive.

Position
yourself
for an easier
experience.

Extend your
performance.
Clinically.
Efficiently.
Financially.

See the
excellence
in every step

Position yourself for an easier experience

Set up exams quickly and confidently. Position patients and devices fast and accurately. Edit images and transfer exams easily and effortlessly. Keep patients comfortable and cared for. At every step of every exam, the Optima XR646 is designed to shorten, and bring more satisfaction to every technologist's workday.



Simplify exams in a Flash.

- Do more with your X-ray system thanks to the powerful functionality of FlashPad, GE's durable, reliable, next-generation wireless digital detector.
- Position the wireless FlashPad detector with maximum ease, flexibility, and freedom, thanks to its convenient square shape and two handles for a secure grip.
- Easily cover large anatomies and accommodate many anatomical combinations with the large, 40.4 cm x 40.4 cm (15.9 in x 15.9 in) FlashPad detector.
- Minimize the risk of detector glass breakage and the need for replacement with the protection of GE's patented cushioning system and carbon graphite materials.
- Position a knee, ankle, or foot easily and quickly with the mobile detector holder accessory.
- Ensuring exact source-to-image distance is critical whatever the position. Auto-tracking automatically aligns the tube and detector to ensure source-to-image distance is correct while positioning adjustments are made. This may reduce the chance of retakes and speeds up your workflow.

Full speed ahead.

- Preview images in less than 3 seconds to evaluate image quality and help avoid repeat exams.
- See full images in 10 seconds to work efficiently, reduce bottlenecks, and minimize patient wait times.
- Switch back and forth between the wireless keyboard and touch screen interface during exams.
- Print multiple images on one sheet to save paper. Patient his or her entire exam on a single sheet.

Flex your efficiency.

- Move the table in 8 different directions for flexibility during exams.
- Image an ankle or foot quickly and easily with the patient standing rather than lying down. Thanks to the 1.8 m (5.9 ft) vertical travel of the overhead tube suspension, which allows OTS as low as just 2.9 cm (1.14 in) from the table top.
- Combining a large, 93 x 240 cm (37 in x 94 in) table top, with the long, 85 cm (33.5 in) detector travel range in the table housing, provides full radiographic coverage with minimal movement.





Follow your fingertips.

A wide group of preset field-of-view options, either portrait or landscape views, are centered on the detector on the lightweight forward touchscreen user interface for overhead tube suspension.

A range of patient sizes and ages.

Patients with greater comfort and support on the spacious, 240 cm x 93 cm (79 in) tabletop.

For children and elderly, wheelchair, patients to get on and off the table with manual positioning just 50 cm (19.7 in).

For patients weighing up to 320 kg (705 lb), the table's high weight capacity, you can easily move the elevating table up and down, moving the table top for fine positioning.

Ready.

The overhead tube suspension away from the table to a stretcher on the long, 12 m (39 ft) mobile cart, ready for use in the ICU or in a trauma situation.

Make the advanced routine.

- Position patients conveniently and comfortably when imaging larger anatomy with GE's Auto Image Paste advanced application. This feature automatically stitches together multiple images acquired in one fast, highly automated exam into a single, seamless composite image.
- Obtain images of great value in daily practice with GE's Dual-Energy Subtraction advanced application. It improves the visibility of details in some regions of the chest, which may be beneficial for imaging silicosis or pneumoconiosis and rib fractures.

Image Paste is 510(k) pending at FDA. Not available for sale in the U.S.

Expert support always on hand.

- With Apslinq[®], get live application support from a clinical expert over the phone and through your equipment console. Our remote experts can help solve procedural issues in real time—as you encounter them. No more distance: these clinical experts see exactly what you see on your screen and can even “take your hand” to personally show you how to navigate the imaging system faster and more efficiently. It's as good as having an expert sitting alongside you when you are trying to deal with a problem such as an unexpected error message.



Extend your performance. Clinically. Efficiently. Financially.

The Optima XR646 is designed to help you improve, enhance, or increase your imaging operation. Like your productivity and uptime. Your clinical breadth and capacity. Your reputation and competitiveness. Your staff satisfaction and referrals.



Grow your reputation and boost your business.

- Invest in the proven legacy and exceptional imaging and low-dose performance with GE's no-compromise FlashPad digital detector—the first wireless detector available in a system in this price segment.
- Use GE's proven, proprietary advanced applications to gain easy, instant access to greater confidence in areas of clinical uncertainty, in ways that help you work fast and productively.
- Help attract referrals and extend the breadth of your clinical capabilities with the Auto Image Paste and Dual-Energy Subtraction advanced applications. IMV² 2013 reports growing plans to acquire those capabilities over the next 3 years. Image Paste is 510(k) pending at FDA. Not available for sale in the U.S.

Diversify your detector.

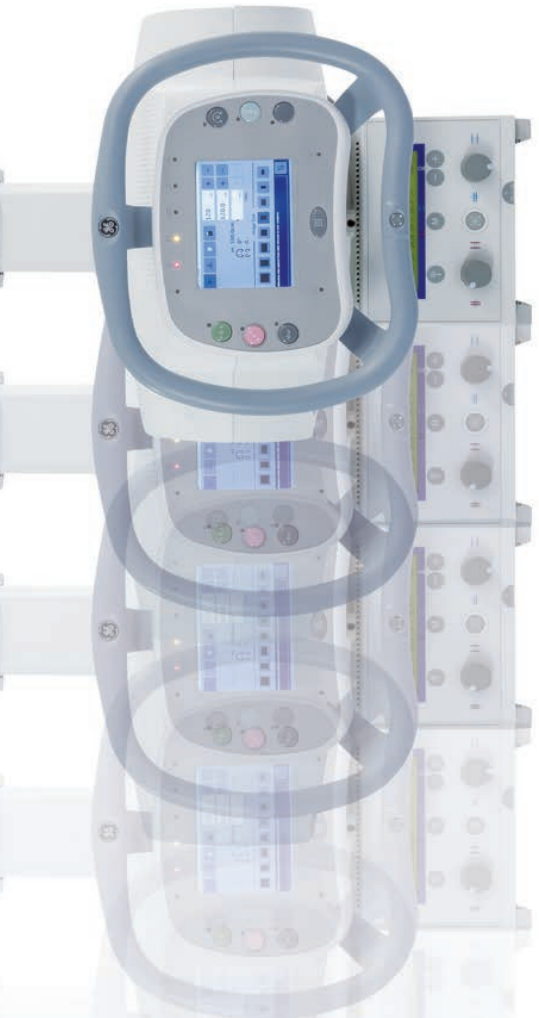
- Share the GE FlashPad wireless detector among all of your compatible GE X-ray products (including mobile systems) for added productivity.

Accelerate your flow.

- Boost technologists' efficiency through access to expert application support via Users of the AppSLing program report a level of satisfaction: they were able to move diagnostic data while reducing time. This higher level of productivity excellence helps increase the number of appointments and serve a greater number of patients. With AppSLing, you also gain lessons on your own terms to accelerate the acquisition of new skills for your staff.

Turn data into dose efficiency.

- DEI (Detector Exposure Index) represents the received exposure at the detector, the predefined expected exposure. DEI is able to monitor variance in image quality and determine "dose creep" for fixed and mobile systems. But it also provides the ability to determine dose by anatomy, view and patient size. This can also be used to establish consistent protocols and standardize image quality across modalities and sites.



me.

time by instantly connecting with a GE digital services expert fully solve any issues—often remotely—a GE's InSite remote service.

essage to a technical expert any irectly from the console. Jobs are 7 opened in our system with efficient y using the right system ID. No need all center; your message is received echnical expert.

ecessary onsite repairs are completed iving a GE service engineer arrive knowledge of the problem pped to solve it.

options.

flexibility of your system in the ICU artment with the 12-meter-long e suspension rails that can help nt access in emergency situations.

Maintain, plan, perform.

- iCenter¹ is an asset maintenance and management internet application—available to you 24/7. This software provides data and analytics on asset status, maintenance history, utilization, location and planning. The goal of iCenter is to help improve decision—making and support improved hospital operations.

Trust our track record.

- Capitalize on GE's 125 years in imaging—with decades of experience in X-ray alone—by doing business with a proven company delivering proven technology, in a relationship you can count on to last.



Always connected to GE Digital Expert Service.



Send an E-message to a technical expert any time (24/7) directly from the console.



24/7 Access to all corrective and preventive maintenance information.



See the excellence in every study.

The Optima XR646's striking image quality is designed to support accurate diagnoses, confident decisions, patient satisfaction, and frequent referrals.

Make your first decision the right one.

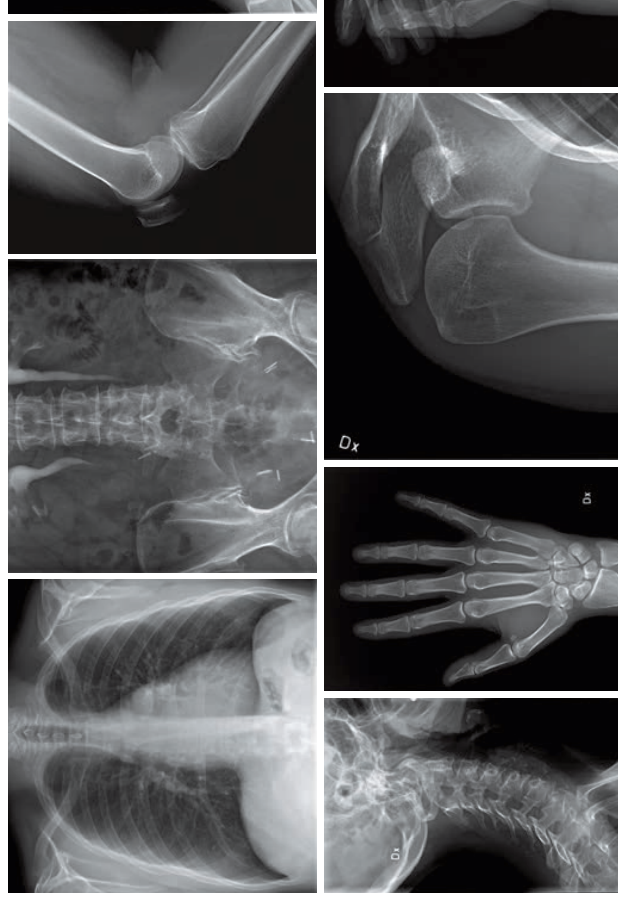
- Obtain detailed images in every exam with GE's proven, no-compromise FlashPad wireless digital detector.
- Boost your clinical confidence thanks to FlashPad's ability to acquire multiple images in less than a second—enabling it to deliver advanced applications such as Auto Image Paste and Dual-Energy Subtraction.

Image Paste is 510(k) pending at FDA. Not available for sale in the U.S.

- From tube to detector, the entire image chain is designed by GE for greater imaging efficiency, with continual investment in new technology to make it even more efficient.

Put more detail into your decision.

- 68% DQE at 0 LP/mm delivers highly detailed images to support your diagnostic accuracy and confidence.
- Eliminate blind zones when imaging the FlashPad's single-panel, non-tiled construction.
- The high-end Cesium Iodide (CsI) scintillator optimizes light channeling to produce sharper images at a low X-ray exposure to the patient.
- Reap the substantial image quality and diagnostic benefits of GE's proprietary image chain, with all components manufactured, integrated, and optimized solely by GE for seamless and exceptional performance.



Acquisition with two exposures at
 gy levels in less than 200 milliseconds.
 are generated providing three
 us of the chest: a standard
 image, an image with the bones
 and an image of just the bones to
 gn objects or calcified structures.

ibility of details in some regions

help make soft-tissue lesions
 and easy to detect and diagnose.

help detect soft-tissues separately
 sions easily.

one lesions and calcifications visible.

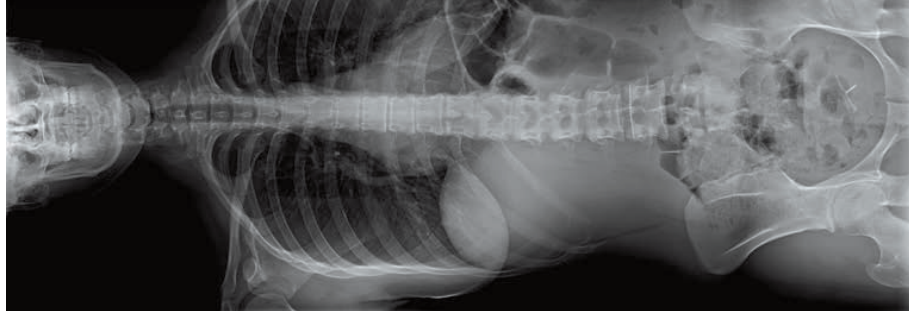
mentary images of great value in daily
 ust a small increase in radiation dose,
 efcial for less-experienced radiologists.

- Automatically acquire multiple overlapping images of larger anatomy such as the entire spine at the wall stand.
- Get complete coverage of the anatomical region of interest through the automated movement of the overhead tube suspension and the wallstand detector.
- Images are automatically combined into one high-quality, seamless, composite picture to support easy diagnosis.
- Enhance image quality and facilitate measurements in orthopedic applications, thanks to excellent resolution and a large dynamic range.

Image Paste is 510(k) pending at FDA. Not available for sale in the U.S.



Auto Image Paste⁴





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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 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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GE imagination at work

Data subject to change.

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¹ Option may not be available in all countries, check with your local representative.

² IMV is a recognized leader in market research and online publishing for the medical imaging and clinical diagnostic instruments markets.

³ Clinical images taken on a GE Healthcare Discovery XR656, which has the same imaging chain as the Optima XR646

⁴ Clinical images taken on a GE Healthcare Definition 6000, which has the same imaging chain as the Optima XR646

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