



Optima NM/CT 640



Great and lasting performance in a SPECT/CT system? **Precisely.**

We invented hybrid SPECT/CT. And now we're perfecting it. Introducing the Optima* NM/CT 640 from GE Healthcare—a powerful combination of precision and performance.

Its next-generation technology delivers on healthcare's most pressing SPECT/CT needs:

- Image quality for outstanding clarity
- Low-dose imaging without compromise
- Acquisition speed that drives efficiency
- Low cost of ownership

Learn more about how the Optima NM/640 delivers confidence, peace of mind and a lasting investment.



IMAGE QUALITY

Precise images. Decisions that perform.

The ability to capture clear SPECT/CT images has never been more important. Radiologists and referring physicians demand it. Diagnostic certainty requires it. And the Optima NM/CT 640 delivers it.



ROTATION SPEEDS

With previous hybrid SPECT/CT systems, a 12-14 second CT rotation could often lead to motion artifacts due to patient breathing or other movement. Thanks to a CT gantry that is independent of the SPECT gantry, the Optima NM/CT 640 can complete a CT rotation in as fast as one second, it can capture many images in a series of brief exposures, allowing for the reduction of motion artifacts. This contributes to greater image clarity and a less taxing patient experience.



BONE SCAN – EXTREMITIES

A Bone SPECT/CT demonstrating CT Image Quality and precise anatomical localization fused with SPECT.

Images courtesy of Dr. Ph. Declerck, Clinic Saint Jean, Belgium

LOW DOSE

Precise technology. High-performance care.

For years, SPECT/CT has required clinicians to make tradeoffs between dose and image quality. Not anymore.

Thanks to GE Healthcare's innovative low-dose technology, the Optima NM/CT 640 delivers exceptional images at a low dose.



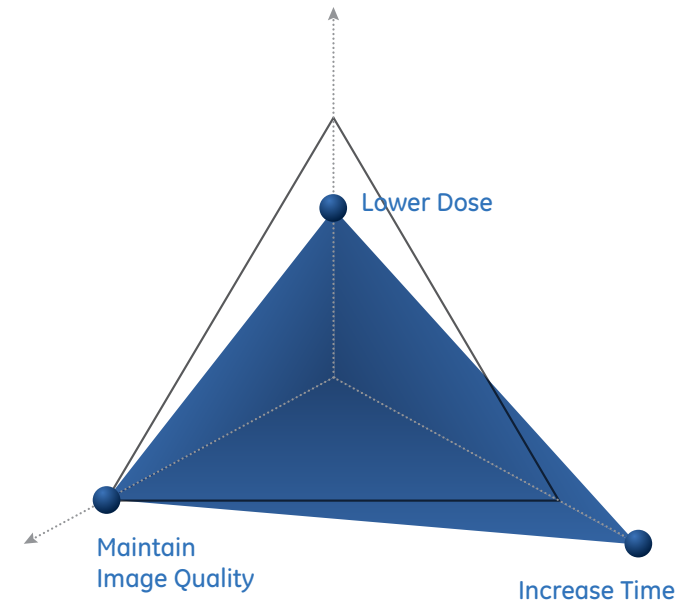
A 75cm multi FOV Lymphoscintigraphy SPECT/CT
DLP = 155.3 mGy.cm
Effective Dose = 2.17 mSv**

**Obtained by IRCP, using an adult chest factor of 0.014
DLP Images courtesy of Dr. Ph. Declerck, Clinic Saint Jean, Belgium

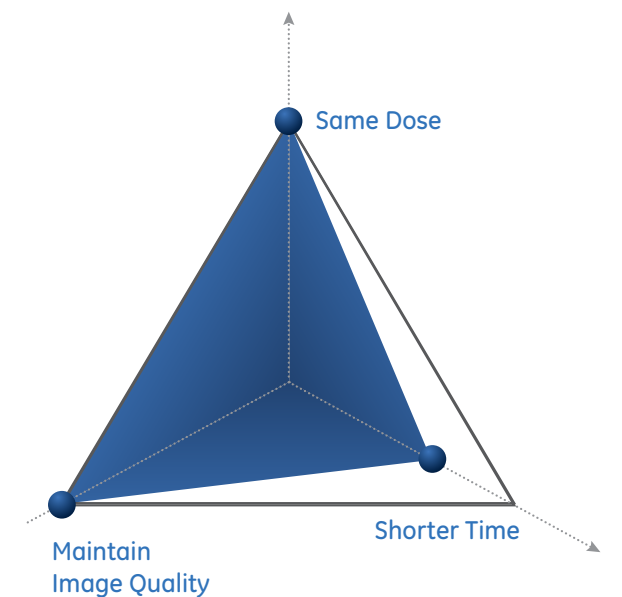
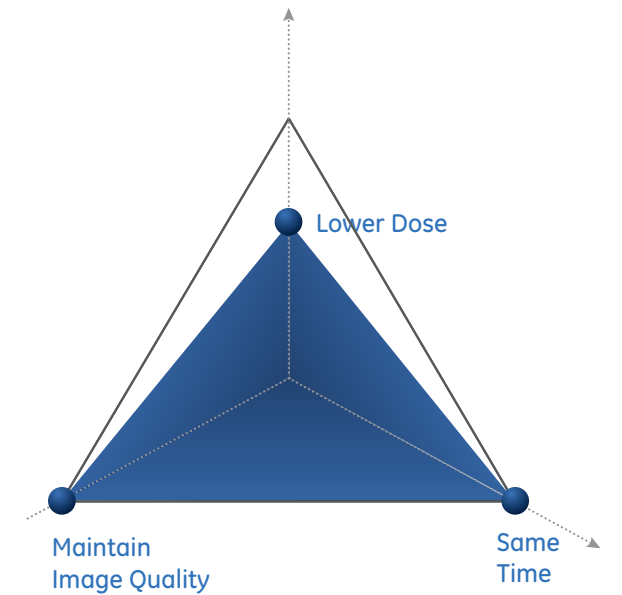
NEW HARDWARE
A new CT detector was designed with dose reduction in mind

NEW SOFTWARE
Reconstruction algorithms allow the reduction of both CT and injected dose—even in larger patients

Dose, image quality and time are highly interdependent. Traditionally, favoring one often means sacrificing another. In systems without Evolution technology, this can mean that lowering dose requires a longer acquisition time, which can be more taxing to patients and result in motion artifacts. Likewise, reducing time can require a higher dose to acquire a suitable image.



With the Optima NM640, you can maintain high image quality while reducing time or dose by up to 50% in most procedures—without increasing exam time.



ACQUISITION SPEED

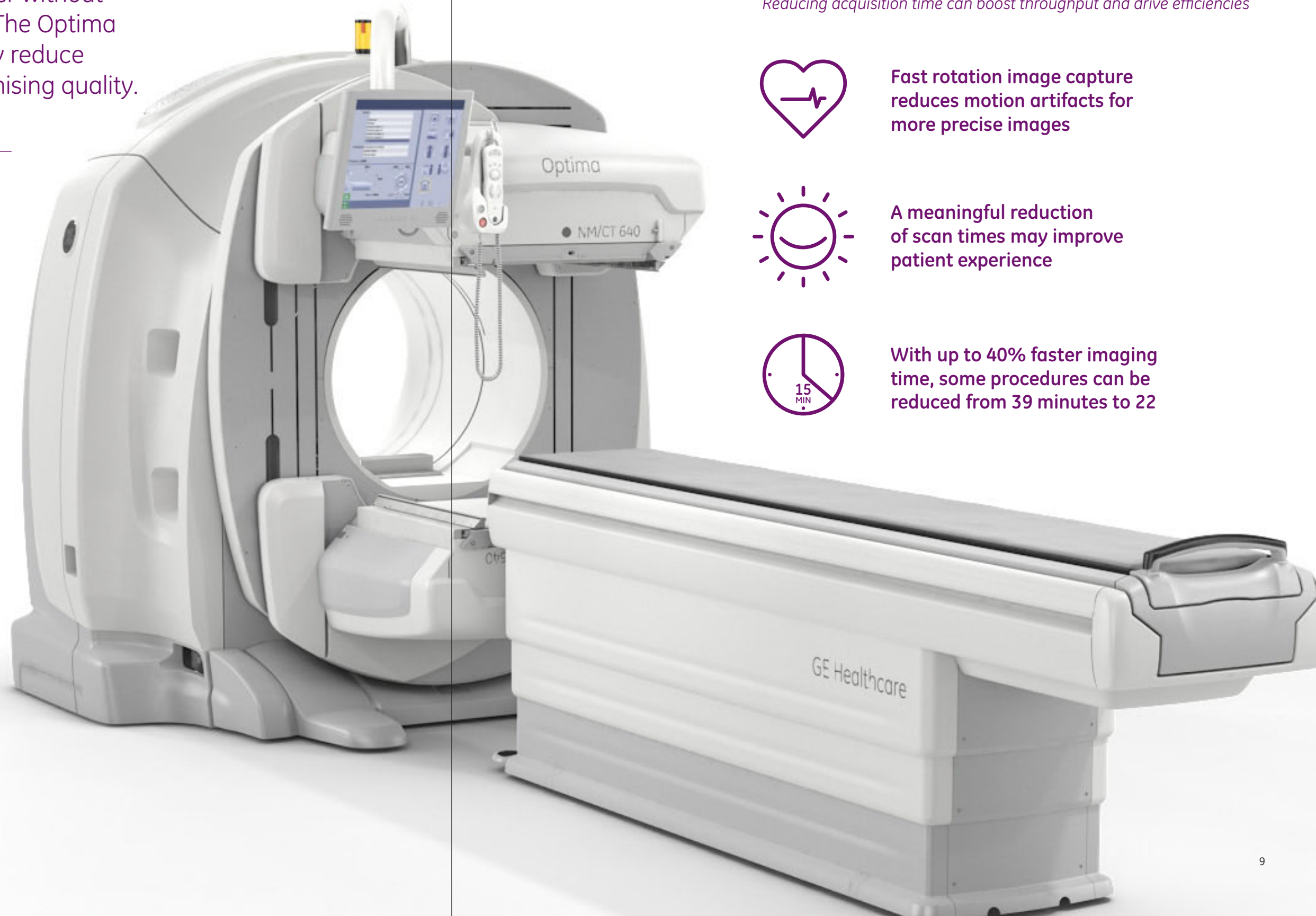
Precise image capture. Performing practices.

Speed matters—and working faster without compromise matters even more. The Optima NM/CT 640 helps you dramatically reduce acquisition time without compromising quality.

2X

2X ACQUISITION SPEED

Advanced robotics and fast CT imaging sum up to a meaningful reduction of hybrid scan duration. For example, a 40 cm hybrid scan will need 5 minutes for the Infinia Hawkeye4* CT image and about 0.5 minutes for the Optima NM/CT 640, contributing a reduction of about 5 minutes for the hybrid scan duration on Optima relative to Hawkeye.



Reducing acquisition time can boost throughput and drive efficiencies



Fast rotation image capture reduces motion artifacts for more precise images



A meaningful reduction of scan times may improve patient experience



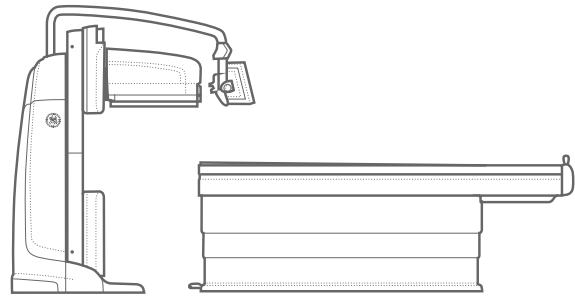
With up to 40% faster imaging time, some procedures can be reduced from 39 minutes to 22

COST OF OWNERSHIP

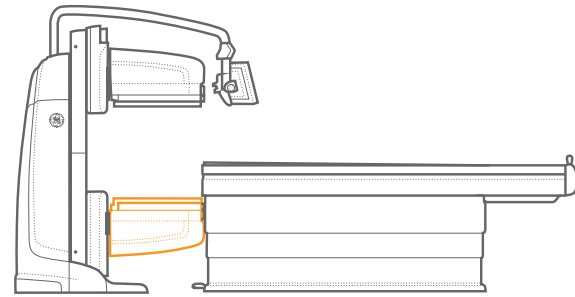
A precise investment. A high-performance choice.

In today's economic environment, strong investment choices are critical. The Optima NM/CT 640 is built for performance as both a machine and an investment, delivering ongoing value for years.

BRIVO* NM615

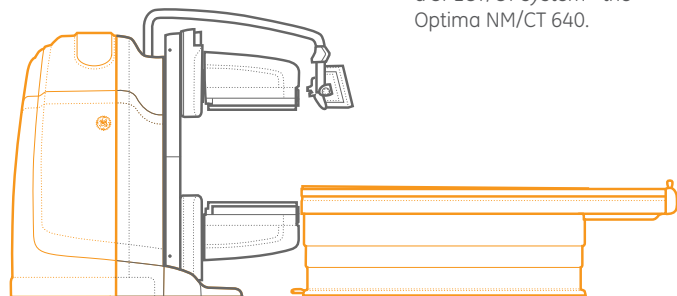


DISCOVERY* NM630



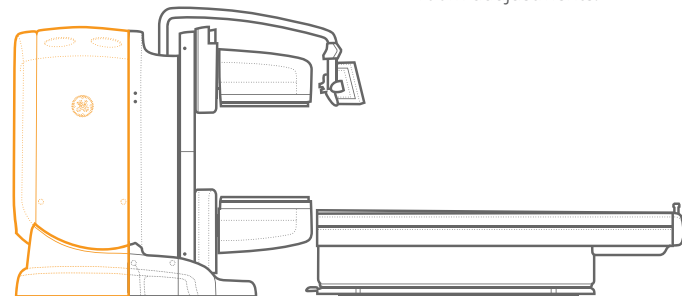
The Brivo NM/615 can add a second detector to become a Discovery NM/630.

OPTIMA NM/CT 640



With the addition of a hybrid table and CT scanner, the Discovery NM/630 becomes a SPECT/CT system—the Optima NM/CT 640.

DISCOVERY NM/CT 670



And from the Optima NM/CT 640, it is possible to upgrade to the Discovery NM/CT 670 with minor room adjustments.

Purchasing a Nuclear Medicine system is a decision that has implications for years to come. The needs an organization has now, and what it can afford, may evolve as it grows and seeks to

add capabilities. The 600 series is designed to accommodate this, allowing the ability to upgrade at crucial decision points in your organization.

Harness the Power of Nuclear Medicine

As organizations strive for better clinical results, dose management and throughput, they face many challenges. At GE Healthcare, we believe in a diagnostic tool that's efficient, precise, and sophisticated—but not always used to its full potential. It's nuclear medicine, and GE is committed to helping you harness its power.

To us, this means investing in nuclear medicine's future and championing its use around the world. We're collaborating with organizations to harness the power of equipment and technology that can help enable high image quality, low dose and short exam times.

We're dedicated to the unique capabilities of nuclear medicine, as a leader in both its underlying technology and its application. And we're invested in expanding its potential, with exciting innovation and new clinical applications in care areas such as Breast Imaging, Nuclear Cardiology, Therapy Planning and Neurology. In the end it's a commitment from a global company that's dedicated to solving big challenges everywhere – all for the benefit of clinicians and their patients.

For nuclear medicine specialists:

We're committed to collaborating with you to bring technical advancements that help you take your expertise to new care areas in the years ahead.

For referring physicians:

Nuclear medicine's clinical capabilities can become a reliable, differentiating part of your practice's offering.

For administrators:

Harnessing the power of nuclear medicine offers new pathways to helping improve the economic health of your organization.



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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 “healthymagination” 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.

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imagination at work