Future bound

Philips Ingenuity Core
High reliability

Low-dose, high-quality imaging and coverage, and the ability to personalize image quality® patient by patient. Expect excellence in routine imaging, with improved image quality across a range of patients. Ingenuity Core offers you all of this, in addition to in-room upgradability to Ingenuity Core128 or Ingenuity CT so its capabilities can grow as your needs grow.

Confidence for you and your patients
Philips Ingenuity Core offers 4 cm coverage for excellent image quality and is also available with iDose®, our iterative reconstruction technique. With a focus on clinical integration and collaboration, patient focus, and improved economic value, the scanner provides improved image quality at low dose with up to 57% improvement in spatial resolution. Now you can personalize image quality based on your patients’ needs at low dose. And with Ingenuity Core with iDose®, reconstruction is achieved in seconds rather than minutes. When it’s time to grow, Ingenuity Core is fully in-room upgradable to Ingenuity Core128 for the benefits of 128-slice scanning or Ingenuity CT for high performance with no tradeoffs.

Clinical integration and collaboration
• Routine procedures with advanced clinical capabilities
• Wide coverage facilitates fast acquisitions in trauma situations and cardiac*
• Personalized image quality depending on clinical needs

Patient focus
• Low energy, low dose
• Improved spatial visualization at a low dose
• Personalized dose across a wide patient population

Improved economic value
• MRC Ice tube, reliability and fast cooling
• Majority of factory protocols reconstructed with iDose® in less than a minute
• Fully in-room upgradable to Ingenuity Core128 or Ingenuity CT

*“Improved image quality” as defined by improvements in spatial resolution and/or noise reduction.
Low-dose, low injected contrast imaging
iDose\(^4\) is an iterative reconstruction technique that gives you control of the dial so you can personalize image quality based on your patients’ needs at low dose. When used in combination with the advanced technologies of the iCT, Ingenuity, and Brilliance scanner families, this provides a unique approach to managing important factors in patient care – a new era in low energy, low dose and low injected contrast imaging.

Images in seconds, not minutes
Read sooner. With Ingenuity Core, the majority of factory protocols reconstructed using iDose\(^4\) are completed in 60 seconds or less. One click from the start of the scan and you’re ready to read at the workstation or portal.

What is Imaging 2.0?
Web 2.0 described the evolution of the web from being data-driven to user-centric, redefining the way people connect, share, and use the Internet. Imaging 2.0 is doing the same, bringing a new world of possibilities for radiology. It is about integration and collaboration, and new levels of patient focus and safety that can help clinicians achieve what was unimaginable just a few short years ago.
With iDose\(^4\), you control the dial

Philips continually looks for ways to improve image quality while maintaining efficient and easy-to-use CT scanning features that help users reduce radiation exposure in operation all along the imaging chain.

The first clinical trial of the iDose iterative reconstruction technique was completed in 2009 and concluded that iDose successfully improves image quality at low dose. iDose\(^4\), the next generation of iterative reconstruction technique from Philips, gives you control of the dial to personalize image quality based on your patients’ needs. When used in combination with the advanced technologies of the Ingenuity Core, it provides a unique approach to managing important factors in patient care – low energy, low dose, and low injected contrast imaging.

### iDose\(^4\), faster than before!

- iDose\(^4\) reconstruction is achieved in seconds rather than minutes. The majority of factory protocols are reconstructed in 60 seconds or less
- iDose\(^4\) iterative reconstruction technique – now up to 24% faster
- Expect less waiting and enhanced efficiency, allowing you to scan more patients
Metal artifact reduction for orthopedic implants
Artifacts from large metal objects, such as orthopedic implants, can be problematic in CT diagnosis and treatment planning, making it difficult to accurately contour anatomic structures and raising the possibility that these artifacts will need to be manually compensated for in the plan.

Ingenuity Core offers Philips Metal Artifact Reduction for orthopedic implants (O-MAR) to isolate the effects of large metal objects in the image data and reduce associated artifacts. The system automatically produces conventional images and O-MAR images for clinician review. This can enhance visualization of critical structures and target volumes.

“‘What’s really exciting for me about iDose^4 is how easy it is to implement this technology into your CT department.’”

Jeffrey B. Mendel, MD, Tufts University School of Medicine, Medford, MA

0.3 mSv routine chest scan
Demonstrating the ability of iDose^4 to improve image quality at low dose; 100 kVp, 15 mAs, 33 cm reconstructed with iDose^4 level 7.

A family of confidence

Philips brings you the benefits of high-resolution, low-dose scanning with increased integration and collaboration, patient care, and economic value in a family that’s designed to grow as you grow.

Philips SmartPath provides you easy access to solutions and innovations for the full life of your computed tomography system, so you can boost your clinical and operational potential and achieve your organizational goals.

**Ingenuity Core**

Future bound, Ingenuity Core offers improved image quality with 4 cm coverage, personalized dose, and is **fully in-room upgradeable** to Ingenuity Core128 or Ingenuity CT.

**Key benefits**

- Improved clinical capabilities with 64 channels and 4 cm coverage
- Upgradeability

**Ingenuity Core128**

Clinical confidence in action, Ingenuity Core128 brings you 128-slice scanning, allows you to personalize dose, and is **fully in-room upgradeable** to Ingenuity CT.

**Key benefits**

- Clinical benefits of 128-slice CT with a 33% improvement in z-axis visualization
- Upgradeability

**Ingenuity CT**

High performance with no trade-offs, Ingenuity CT allows you to dial in the image quality you want and offers the benefits of iterative reconstruction technique and speed for everyone.

**Key benefits**

- iDose4 iterative reconstruction technique – standard
- Results driven scanning – standard
- O-MAR – standard

**High performance – no trade-offs**

64 channels and 4 cm coverage with a 33% improvement in z-axis visualization
The Philips MRC Ice X-ray tube is designed to be one of the most reliable in the industry. Built for high volume and 24-hour consistency, there is no waiting for the tube to warm up before the scan and no waiting for it to cool down.1

Liquid coolant carries heat away from the MRC Ice X-ray tube, so Ingenuity Core is ready for the most demanding scans, one right after the other.

2 In urgent care situations the tube is capable of scanning immediately. It is recommended that the system in general be warmed up using normal procedures.

3 Assuming routine power usage with 10-minute scan windows.
0.9 mSv carotid and Circle of Willis CTA using 100 kVp and iDose
Advanced Vessel Analysis software on the IntelliSpace Portal improves time to diagnosis by isolating the vascular structures with limited user interaction. 320 mAs and 33 cm scan length.
Circle of Willis CTA, 0.4 mSv
Excellent contrast resolution demonstrated on a 80 kVp neuro CTA. 300 mAs, iDose level 4 and 16 cm scan length.
Step & Shoot Cardiac
Excellent visualization of the coronary artery system including the main diagonal branch.
Outstanding vascular detail in the lungs allows identification of small structures.
Abdomen pelvis CTA
CTA studies made routine with Ingenuity Core.
**Ultra-high resolution wrist**

Ultra-high resolution and a 768x768 matrix provide the bony detail needed to demonstrate bone fractures.
Connecting you to more

Designed for a lifetime of value, Ingenuity Core is able to offer clinical integration with HIS/RIS, IntelliSpace Portal, PACS, the Brilliance Workspace, the injector, and other technologies.

Collaborate like never before
The IntelliSpace Portal option provides a multimodality workspace that facilitates a high level of collaboration among radiologists and referring physicians while streamlining imaging workflow. Advanced networking capabilities facilitate collaboration among clinicians that may ultimately lead to faster, more accurate and informed patient care.

The IntelliSpace Portal offers several exclusive features, including:
- Thin client architecture that makes image data and applications available virtually anywhere for CT, MR, NM images
- Award winning and easy-to-use applications (based on the Best-in-KLAS Brilliance Workspace Portal)
- Tooling to allow easy communication among clinicians of advanced visualization results

NetForum Community
NetForum is a virtual clinical community where users from around the globe share clinical experiences, learn from peers, and optimize their own results. Our commitment to this mission to expand the clinical effectiveness of diagnostic imaging is demonstrated in our online user community: www.philips.com/netforum.

* Note: Images are not for diagnosis except when using cleared software for mobile application.
**Options to streamline training and workflow**

Ingenuity Core reduces training time with intuitive operation designed to be easy to learn and simple to work with. With the Results Driven Scanning option, one click takes you from the start of the scan to ready-to-read at the workstation or on the portal. Data is entered once during a scan so there is less opportunity for error and greater opportunity for departmental efficiency.

**Automatically in sync**

Ingenuity Core also offers another level of clinical integration with its SyncRight option. Philips SyncRight technology provides enhanced communication between the contrast injector and the scanner, which simplifies contrast studies and reduces contrast volumes by up to 15%. SyncRight is designed to deliver the right amount of contrast at the right time while helping to provide excellent diagnostic image quality and results for each contrast-enhanced scan.

We've got you covered

The excellent uptime of Ingenuity Core is also due in part to proactive monitoring and visual diagnostics, which allow us to address issues quickly for our customers.

Remote means we're closer and quicker. Philips Remote Services have been smartly engineered to automatically probe your scanner in order to address problems before they occur, help reduce disruption, and keep your workflow on track.

By proactively monitoring the health of your system, a service engineer can arrive at your site with the proper knowledge and parts to help reduce the critical time to repair.