



PHILIPS

Computed tomography

A **class** of its own

Philips Ingenuity Elite with IMR specifications

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1. Introduction

CT imaging at low dose, low energy, and low noise with outstanding results? It's here now on the Ingenuity Elite with IMR, with advanced technologies to enhance the entire imaging chain and uphold patient-centric clinical excellence. From the iDose⁴ Premium Package to NanoPanel Elite to iPatient, which puts you in control of innovative workflow solutions, the Ingenuity Elite with IMR is in a class of its own. And with IMR Platinum, it offers industry-leading low-contrast resolution and virtually noise-free image quality.

Clinical integration and collaboration	Patient focus	Economic value
<ul style="list-style-type: none"> • Confidence and consistency 24/7 with iPatient • Deliver appropriate contrast dose and consistent image quality with SyncRight option • Industry-leading low-contrast resolution with IMR 	<ul style="list-style-type: none"> • Low dose and high image quality with the iDose⁴ Premium Package • Improved visualization in the presence of large metal orthopedic implants with O-MAR • NanoPanel detector for marked image noise improvement 	<ul style="list-style-type: none"> • Majority of reference protocols reconstructed with iDose⁴ in less than a minute • Family upgradability • Begin reading early with IntelliSpace Portal automatic processing



Features	Specifications
Effective power with iDose ⁴	105 kW
Slices	128
Coverage	40 mm
Maximum scannable range	1,750 mm (2,100 mm)*
Bore size	700 mm
iDose ⁴ reconstruction speed	18 IPS
Standard reconstruction speed	25 IPS
Anode effective heat capacity	30 MHU

* Optional.

2. User interface

Philips iPatient is an advanced platform that puts you in control of enhancing your CT system today, while preparing you for the challenges of tomorrow. While you're working to boost return on investment now, you're also accessing a flexible platform that will support future innovations.

2.1 iPatient key benefits

- Plan the results, not the acquisition
- Up to 24%* faster time to results; up to 66%* fewer clicks
- Facilitates optimal** management of image quality and radiation dose with patient-specific methods
- Easy and efficient communication between the CT system and the injector in order to facilitate delivering appropriate contrast dose and consistent image quality with SyncRight
- Optimizes collimation, pitch, and rotation time automatically
- Automates routine tasks
- Increases your ability to do complex and advanced procedures
- Enables advanced capabilities such as IMR and future technologies

2.2 ExamCards

ExamCards are the evolution of the scanning protocol. With ExamCards, the results are planned, not the acquisition; this reduces decision points and clicks, saves time, and is a means to share protocols among colleagues to allow for scan-to-scan consistency. ExamCards can include axials, coronals, sagittals, MPRs, MIPs, and other results, all of which will be automatically reconstructed and can be sent to where they will be read with no additional work required by the operator.

2.3 ScanRuler

An interactive timeline of the study that provides the operator a quick overview of important events such as Survive, acquisition, bolus tracking, AutoVoice, and injection.



* In a study done using multiphasic liver CT exams, the iPatient software platform reduced time-to-results by 24% and clicks per exam by 66%. Impact of workflow tools in reducing total exam and user interaction time – four-phase liver computed tomography exams. Nicholas Ardley, Southern Health; Kevin Buchan, Philips Healthcare; Ekta Dharaiya, Philips Healthcare.

** Optimal refers to the use of strategies and techniques that facilitate the management and control of both image quality and dose.

3. DoseWise

Philips DoseWise is a holistic approach to dose management that is active in every level of product design. It encompasses a set of techniques, programs and practices based on the ALARA (As Low As Reasonably Achievable) principle and supports outstanding image quality at low dose.

3.1 DoseRight Index

DoseRight Index (DRI) is a single number used to specify the image quality required for the diagnostic task at hand. DRI includes organ-specific DRI for the liver and the head/neck to provide appropriate dose and image quality within a single acquisition. 11 weight-based protocols can be generated for ExamCards, including 1 infant, 7 child, and 3 adult reference sizes.

3.2 CT Dose Check

Supports an operator notification in each ExamCard that will be shown if an acquisition is planned that exceeds a specified $CTDI_{vol}$ or DLP. In addition, an alert is available such that, if an acquisition is planned and the total exam will exceed a specified $CTDI_{vol}$ or DLP, the operator will be required to enter his or her name and (if configured) a password to proceed, or the operator can adjust the scan parameters. Compliant with NEMA XR-25 and XR-29.

3.3 DICOM structured reporting/IHE REM profile

DICOM radiation dose structured report that can be transferred to external systems such as HIS/RIS, PACS, or dose registries.

3.4 DoseRight automatic current selection

Personalizes dose for each patient by automatically suggesting tube current settings according to the estimated patient diameter in the scan region.

3.5 DoseRight angular dose modulation

Angular dose modulation varies the tube current during helical scans according to changes in patient shape (eccentricity) and tissue attenuation as the tube rotates. For each rotation, projections are processed to determine the maximum and minimum patient diameter. The tube current for the next rotation is then modulated between these limits.

3.6 DoseRight Z-DOM

(longitudinal dose modulation)

Longitudinal dose modulation (Z-DOM) aids in adapting dose to an individual patient's size and shape. In particular, Z-DOM adjusts the tube current-time product (mAs) in the craniocaudal or caudocranial (z-axis) direction based on the Surview by comparing the actual patient's attenuation at each longitudinal location to a reference.

3.7 3D-DOM

3D-DOM combines angular and longitudinal information to modulate dose in three dimensions.

3.8 Dedicated pediatric protocols

In the iPatient approach, size-specific ExamCards can be easily generated. ExamCards can be based on one of eight (1 infant, 7 child) midpoint reference diameters that are directly related to weight based intervals. iPatient includes reference pediatric protocols for a number of clinical indications.

3.9 Locking protocols

Unauthorized protocol modifications may be prevented through password-protected access.

3.10 Dose display and reports

Philips CT scanners include intuitive reporting and recording of estimated dose indices, dose reduction, and dose efficiency. Dose estimates are displayed on the operator's console for all scan protocols prior to and throughout the examination. Volume computed tomography dose index ($CTDI_{vol}$) and dose-length product (DLP) are automatically updated as the operator plans the scan. Also, a dose report may be included as a DICOM dose structured report and/or DICOM secondary capture with the reconstructed data set.

3.11 Dose performance data

$CTDI_{vol}$	Measurement
Head	12.9 mGy/100 mAs
Body	6.6 mGy/100 mAs

Measured on head and body $CTDI$ phantoms (IEC 60601-2-44 ed.3) at 120 kVp.

4. Gantry



4.1 Gantry

Feature	Specification
Aperture	700 mm
Focus-isocenter distance	570 mm
Focus-detector distance	1040 mm
Rotation times	0.4, 0.5, 0.75, 1, 1.5 seconds for full 360° scans, 0.28, 0.33 seconds for partial angle 240° scans Effective cardiac rotation time 0.3 seconds
Intercom system	Two-way connection between the gantry and console area
Gantry tilt	-30° to +30° with 0.5° increments

4.2 Gantry control panels

- Multi-directional control for fast movement
- Fine movement in/out control
- Start button
- Pause button
- Visual countdown
- Zero table location
- Lasers

Audio notification 10 seconds before X-ray On so that operator and staff can exit room before X-ray On.

4.3 Operator's console control panel

- Table in/out/up/down
- Emergency stop
- X-ray indicator
- Start button
- Pause button

4.4 AutoVoice

A standard set of commands for patient communication before, during, and after scanning in the following languages:

- Arabic
- Chinese – standard Mandarin
- Danish
- Dutch
- English
- French
- Georgian
- German
- Greek
- Hebrew
- Italian
- Japanese
- Norwegian
- Romanian
- Russian
- Spanish
- Swedish
- Thai
- Turkish
- Vietnamese

Additional languages will continue to be added in the future. Support of some languages may vary by configuration. Customized messages can also be created.

5. Patient table

Feature	Standard table	Bariatric table	Long table
Maximum scannable range	1,750 mm	1,750 mm	2,100 mm
Pitch	0.5 – 1.5	0.5 – 1.5	0.5 – 1.5
Z-position accuracy	+/- 0.25 mm	+/- 0.25 mm	+/- 0.25 mm
Longitudinal speed	0.5 mm/s – 185 mm/s	0.5 mm/s – 185 mm/s	0.5 mm/s – 185 mm/s
Lowest table height	579 mm	579 mm	579 mm
Maximum load capacity	450 lbs (204 kg)	650 lbs (295 kg)	450 lbs (204 kg)

6. Accessories

6.1 Standard accessories



Arm rests



Cushions and pads



Head holder cushions and pads



IV pole



Patient restraint kit



Standard head holder



Table extension



Table pad

6.2 Optional accessories



Flat head holder



Infant cradle



Load and unload foot pedals



Radiology Flat Top Kit



Therapy table top
(available only with bariatric table)

7. Imaging chain

7.1 Generator

Feature	Specification
Effective power with iDose ⁴	105 kW
Power rating	80 kW
kVp setting	80, 100, 120, 140
mA range (step size)	20–665 (1 mA steps)

Effective power is calculated by using full generator power (80 kW) and using iDose⁴ at the same time. This gives Ingenuity Elite effectively more power.

7.2 X-ray tube

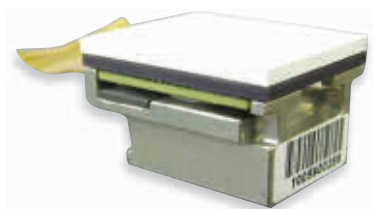
Feature	Specification
Focal spot sizes, quoted to IEC 336/93 standard	Small: 0.5 x 1.0 Large: 1.0 x 1.0
Anode effective heat capacity	30 MHU; direct cooling
Anode heat capacity	8.0 MHU
Maximum anode cooling rate	1,608 KHU/min
Anode diameter	200 mm
Anode rotation speed	105 Hz (6,300 rpm)
Target angle	7°
Maximum helical exposure time	100 s



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

7.3 NanoPanel detector

Feature	Specification
Slices	Up to 128
Coverage	40 mm
Material	Solid-state GOS with 43,008 elements
Dynamic range	1,000,000:1
Slip ring	Optical – 5.3 Gbps transfer rate
Data sampling rate	Up to 4,640 views/revolution/element
Collimations available	64 x 0.625 mm 2 x 0.625 mm 40 x 0.625 mm 32 x 1.25 mm 20 x 0.625 mm 12 x 1.25 mm 16 x 0.625 mm 8 x 0.625 mm 12 x 0.625 mm 4 x 0.625 mm
Slice thickness (helical mode)	0.67 mm – 5 mm
Slice thickness (axial mode)	0.625 mm – 12.5 mm
Scan angles	240°, 360°, 420°
Scan field of view	250 mm, 500 mm



Philips continues to be a leader in CT detector design with the introduction of the NanoPanel Elite – our latest tile-detector technology – that has been re-engineered for low-noise, high-fidelity imaging.

8. Image quality



8.1 Spatial resolution

Spatial resolution	Cut-off (+/- 2 lp/cm)
Ultra-high mode (lp/cm)	24
High mode (lp/cm)	16
Standard mode (lp/cm)	13

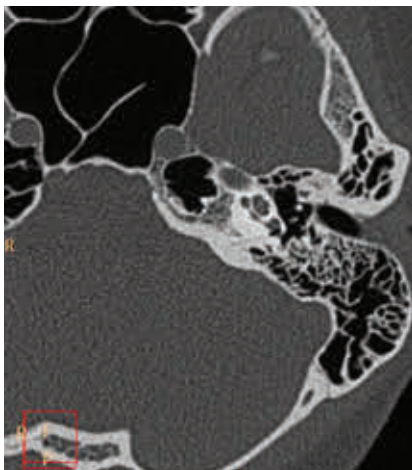
8.2 Low-contrast resolution

Feature	Specification
Low-contrast resolution*	4 mm @ 0.3% @ 16.4 mGy CTDI _{vol}
Low-contrast resolution with IMR**	2 mm @ 0.3% @ 10.4 mGy CTDI _{vol}

* 20 cm Catphan phantom; 10 mm slice thickness

** 20 cm Catphan phantom; 7 mm slice thickness

body CTDI phantom (IEC 60601-2-44, Ed. 3); at 120 kVp.



8.3 Other

Feature	Specification
Absorption range	-1,024 to +3,071 Hounsfield units
Noise	0.27% at 120 kV, 250 mAs, 10 mm slice thickness



9. Reconstruction

9.1 Reconstruction speed

Feature	Specification
Reconstruction speed with iDose ⁴	18 IPS
Reconstruction speed without iDose ⁴	25 IPS

9.2 IMR Platinum

Iterative Model Reconstruction (IMR) sets a new direction in CT image quality with virtually noise-free images and industry-leading low-contrast resolution. Moreover, for the first time physicians are also able to simultaneously combine image quality improvements with significantly lower doses.*

This improvement is a breakthrough made possible through Philips first iterative reconstruction built on knowledge-based models. IMR Platinum is the first knowledge-based solution that can be used in advanced gated acquisitions.

The majority of reference protocols are reconstructed in less than three minutes.

Example reference protocols

Protocol	Number of images	Scan length (mm)	Total reconstruction time (min)
Brain	355	160	1.5
Brain CTA	333	150	1.5
Chest	777	350	2.2
Aorta CTA	1555	700	2.6
Coronary CTA	311	140	1.3
Abdomen	888	401	1.8

9.3 iDose⁴ Premium Package

iDose⁴ Premium Package, includes two leading technologies that can improve image quality – iDose⁴ and metal artifact reduction for large orthopedic implants (O-MAR). iDose⁴ improves image quality** through artifact prevention and increased spatial resolution at low dose. O-MAR reduces artifacts caused by large orthopedic implants. Together they produce high image quality with reduced artifacts.

9.4 HyperSight IMR reconstructor

HyperSight IMR is specifically designed to provide reconstruction speed that allows iDose⁴ to be routinely used in inpatient, outpatient, and emergency care settings.

9.5 Cone Beam Reconstruction Algorithm – COBRA

Philips patented Cone Beam Reconstruction Algorithm (COBRA) enables true three-dimensional data acquisition and reconstruction in both axial and helical spiral scanning.

9.6 ClearRay reconstruction

A revolutionary solution pre-computes and stores beam hardening and scatter corrections in a database later referenced to create a correction that is personalized to each individual patient. As a fully three-dimensional technique, contrast scale stability is preserved across different patient sizes, image uniformity is improved, and organ boundaries are better visualized.

9.7 Adaptive filtering

Adaptive filters reduce pattern noise (streaks) in non-homogenous bodies, improving overall image quality.

9.8 Adaptive multicycle reconstruction

Image data can be prospectively gated or retrospectively tagged. Automatically delivers the best temporal resolution possible for the current scan (as high as 53 ms).

9.9 Reconstruction field of view

50 to 500 mm continuous; 25 to 250 mm (ultra-high res)

9.10 Image matrix

512 x 512 • 768 x 768 • 1,024 x 1,024

9.11 Off-line reconstruction

Off-line (batch) background image reconstruction of user-defined groups of raw data files with automatic image storage.

9.12 Preview images

Real-time 512² matrix image reconstruction and 5 mm x 5 mm contiguous slice display with helical acquisition or off-line reconstruction.

* In clinical practice, the use of IMR may reduce CT patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. A consultation with a radiologist and a physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task. Lower image noise, improved spatial resolution, improved low-contrast detectability, and/or dose reduction were tested using reference body protocols. All metrics were tested on phantoms. Dose reduction assessments were performed using 0.8 mm slices, and tested on the MITA CT IQ Phantom (CCT183, The Phantom Laboratory), using human observers. Data on file.

** Improved image quality is defined by improvements in spatial resolution and/or noise reduction as measured in phantom studies.

10. Clinical enhancements

Optional

10.1 SyncRight

The Philips CT SyncRight option enables easy and efficient communication between the CT system and the injector in order to facilitate delivering appropriate contrast dose and consistent image quality.

10.2 Bolus tracking

An automated injection planning technique to monitor actual contrast enhancement and initiate scanning at a predetermined level.

10.3 Spiral Auto Start (SAS)

Spiral Auto Start allows the injector to communicate with the scanner. This allows the technologist to monitor the contrast injection and to start the scan (with a predetermined delay) while in the scan room.

10.4 Patient centering on surview

Traditionally, patients are centered using the gantry laser lights; with this feature it is possible to improve patient centering using the lateral surview with real-time feedback.

10.5 Clinical applications, standard

- Calcium Scoring
- Cardiac Viewer
- CT Reporting
- CT Viewer
- Filming
- Functional CT

10.6 Dual-energy ready

Scanner allows for acquisition and reconstruction of sequential dual-energy scans. The Spectral Analysis application allows separation and analysis of materials such as calcium, iodine, and uric acid when used with dual-energy scan data.*

Optional

10.7 Clinical applications, optional

- Advanced Brain Perfusion
- Bone Mineral Analysis
- Dental Analysis

10.8 Pulmonary Toolkit

Philips Pulmonary Toolkit enables the user to trigger a scan at a particular breath level, reducing artifacts caused by respiratory motion. This allows enhanced chest imaging of patients who cannot hold their breath. The Philips Bellows device is included.

10.9 Pulmonary Toolkit for Oncology

Philips Pulmonary Toolkit for Oncology includes the features found in the Philips Pulmonary Toolkit, and also includes Retrospective Spiral (4D CT) capabilities and support for the Varian RPMTM (device not included).

10.10 RateResponsive CV toolkit for Ingenuity

Enables cardiac imaging and includes an ECG monitor, Retrospective Tagging, Prospective Gating, Cardiac Viewer, Heartbeat-CS, and CT Reporting. Uses Philips exclusive Adaptive Multicycle Reconstruction algorithm to enhance temporal resolution – as high as 53 ms – and uses Philips patented Beat-to-Beat Algorithm to automatically find the best phase for cardiac imaging. Includes automatic arrhythmia detection and management.

10.11 Step & Shoot Complete

Step & Shoot Complete enables low-dose, prospectively ECG-triggered, axial thoracic imaging. Step & Shoot Complete allows gated, submillimeter, isotropic imaging of the entire thorax (up to 50 cm transaxial field of view), including the coronary arteries.

Step & Shoot Complete is well suited for patients with heart rates below 65 bpm. Arrhythmias are managed in real-time using proprietary, prospective-detection algorithms to pause acquisition during unstable heart rhythms.

10.12 Jog Scan

Provides up to 80 mm of organ coverage for perfusion studies. An axial scan is taken in one location, the couch translates to another location within a few seconds, and another axial scan is taken. These multiple datasets are registered automatically to provide the extended coverage.

10.13 CT Interventional

CT Interventional includes enhanced interventional capabilities to increase throughput and control of interventional procedures. With the option of either cart-mount or ceiling-mount solutions, the system helps you in your efforts to drive clinical confidence and consistency with flexible displays (1:1, 3:1, or volumetric) and allows the user to adjust the viewing convention or scan parameters and to switch scan modes on the fly. Reference series display enhances intra-procedural needle guidance. Both the single and continuous interventional scan modes support iDose⁴ and are DoseRight- and DRI-capable.

The Philips interventional table control option enhances operational efficiency during CT-guided interventional procedures.

* The Spectral Analysis application is available with an optional IntelliSpace Portal.

11. Networking and storage

11.1 Networking

Supports 10/100/1000 Mbps (10/100/1000 BaseT) networks. For optimal performance, Philips recommends a minimum 100 Mbps network (1 Gbps preferred) and for the CT network to be segmented from the rest of the hospital network.

11.2 DICOM

DICOM 3.0-compliant image format. Lossless image compression/decompression is used during image storage/retrieval to/from all local storage areas. Images can be auto-stored to selected archive media.

Includes the following DICOM functionality:

- Service class user and profile (CT, MR, NM, Secondary Capture)
- DICOM Print
- DICOM Modality Worklist
- Query/Retrieve User and Provider
- Modality Performed Procedure Step User
- Storage Commitment User
- Removable Media
- Structured Reports

11.3 DICOM connectivity

Full implementation of the DICOM 3.0 communications protocol allows connectivity to DICOM 3.0-compliant scanners, workstations, and printers; supports IHE requirements for DICOM connectivity. Further details on connectivity and interoperability are provided within the DICOM Conformance statement.

11.4 DICOM DVD/CD writer

Stores DICOM images and associated image viewing software on DVD/CD media. Images on these DVD/CDs can be viewed and manipulated on PCs meeting the minimum specifications. Suited for individual result storage and referring physician support.

11.5 Filming

This function allows the user to set up and store filming parameters. Pre-stored protocols can be set to include auto-filming. The operator can film immediately after each image, at the end of a series, or after the end of a study, and review images before printing. The operator can also automatically film the study at three different windows and incorporate “Combine Images” functionality to manage large datasets. Basic monochrome and color DICOM print capability are supported.

Type	Hard drive		DVD	CD	DVD RAM
Capacity	262 GB	262 GB	4.7 GB	700 MB full disk	9.4 GB
Approximate images	473,000	625,000*	8,500	1,200	30,000
Patients**	1,577	2,083	28	4	100

* 512 x 512 matrix; compressed

** Based on 300 images per study

12. Site planning

12.1 Power requirements

- 200/208/240/380/400/415/480/500 VAC
- 50/60 Hz
- 112.5 kVA supply (150 kVA preferred)
- Three-phase distribution source

Optional

12.2 Console Uninterrupted Power Supply (UPS)

Provides up to 30 minutes of backup power for host and reconstruction system.

12.3 Environmental requirements

Temperature

Gantry room	18° to 24° C (64° to 75° F)
Control room	15° to 24° C (59° to 75° F)

Humidity

Gantry/Control	35% to 70% non-condensing
----------------	---------------------------

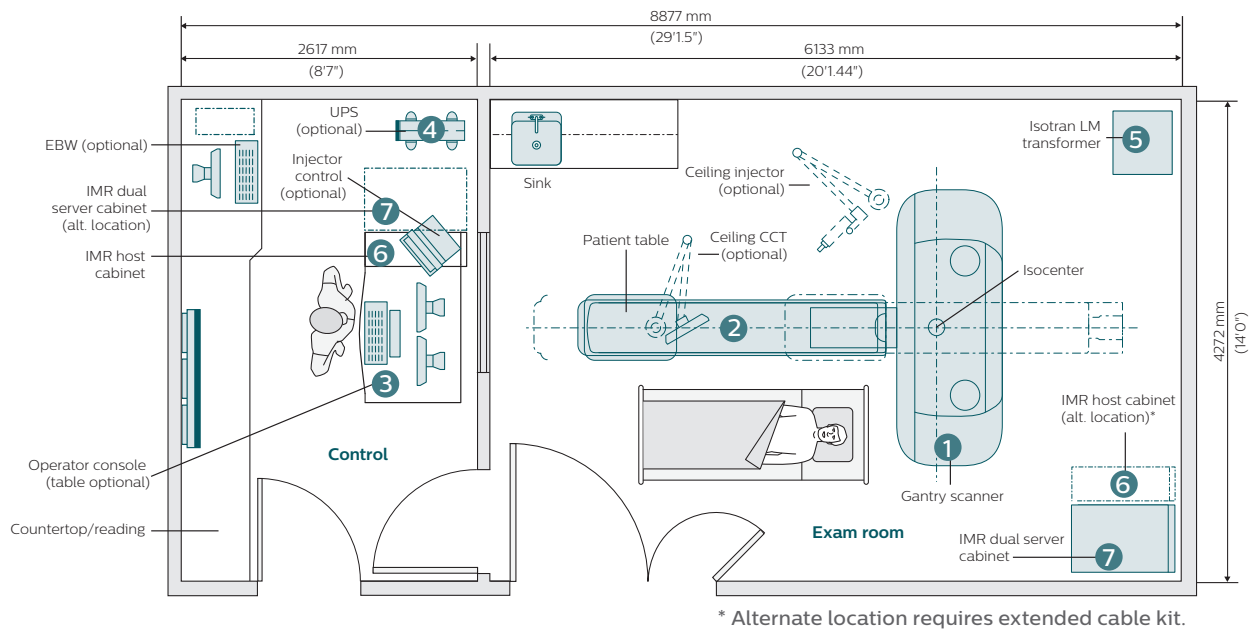
Heat dissipation

Gantry	18,000 BTU/hour
Isotran LM	2,210 BTU/hour
Host	2,484 BTU/hour
Dual server	8,226 BTU/hour



12.4 System requirements, standard and bariatric tables

This preferred room layout can be upgraded to long table and will accommodate a 2100 mm scannable range.

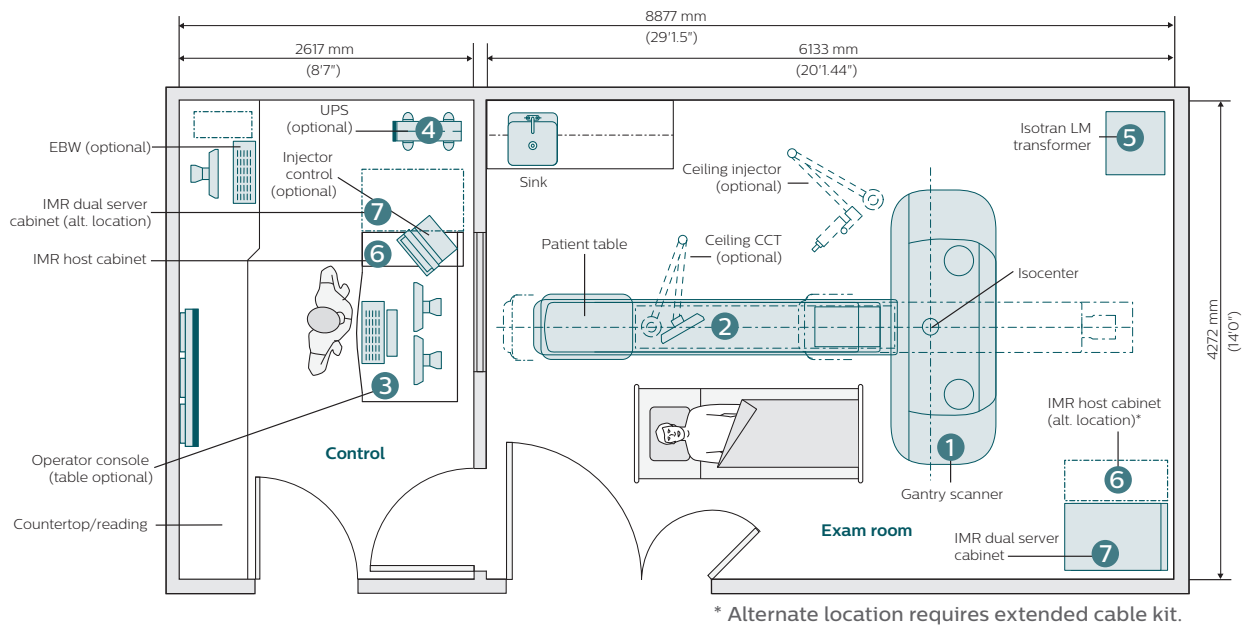


12.5 Dimensions and weights, standard and bariatric tables, per unit

	Length	Width	Height	Weight
① Gantry scanner	2,376 mm (93.5")	941 mm (37")	2,005 mm (79")	1,950 kg (4,300 lb)
② Table, standard or bariatric	5,151 mm (203")	685 mm (27")	1,067 mm (42")	404 kg (890 lb)
③ Operator console (table optional)	1,200 mm (47.2")	905 mm (35.5")	1,176 mm (46.3")	88 kg (194 lb)
④ UPS (optional)	296 mm (11.7")	602 mm (23.7")	430 mm (17")	70.4 kg (155 lb)
⑤ Isotran LM transformer	553 mm (21.8")	516 mm (20.3")	673 mm (26.5")	274 kg (603 lb)
⑥ IMR host cabinet	300 mm (11.8")	900 mm (35.4")	762 mm (30")	79 kg (174 lb)
⑦ IMR dual server cabinet	609 mm (24")	908 mm (35.7")	762 mm (30")	127 kg (279 lb)

12.6 System requirements, long table

This preferred room layout will accommodate a 2100 mm scannable range.



12.7 Dimensions and weights, long table, per unit

	Length	Width	Height	Weight
① Gantry scanner	2,376 mm (93.5")	941 mm (37")	2,005 mm (79")	1,950 kg (4,300 lb)
② Table, long	5,653 mm (222.5")	557 mm (22.7")	1,070 mm (42.2")	400 kg (880 lb)
③ Operator console (table optional)	1,200 mm (47.2")	905 mm (35.5")	1,176 mm (46.3")	88 kg (194 lb)
④ UPS (optional)	296 mm (11.7")	602 mm (23.7")	430 mm (17")	70.4 kg (155 lb)
⑤ Isotran LM transformer	553 mm (21.8")	516 mm (20.3")	673 mm (26.5")	274 kg (603 lb)
⑥ IMR host cabinet	300 mm (11.8")	900 mm (35.4")	762 mm (30")	79 kg (174 lb)
⑦ IMR dual server cabinet	609 mm (24")	908 mm (35.7")	762 mm (30")	127 kg (279 lb)

Enhancing the capabilities of your existing iCT and Ingenuity CT family scanners, the SmartPath upgrade offers easy access to knowledge-based iterative reconstruction.



Optimize your system's performance both now and in the future with regular and ongoing updates, including functionality improvements and remote technical support.



Enhance your equipment with regular technology upgrades, and take advantage of the newest features and capabilities.



Transform your investment at the end of your system's life by transitioning seamlessly to a next-generation solution or refurbished option.

The images and descriptions contained herein provide technical specifications and optional features which may not be included with the standard system configuration. Contact your local Philips Representative for complete specific system details.

Some or all of the products, features, and accessories shown or described herein may not be available in your market. Please contact your local Philips Representative for availability.

The Ingenuity Elite with IMR is a configuration of the Ingenuity CT.

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