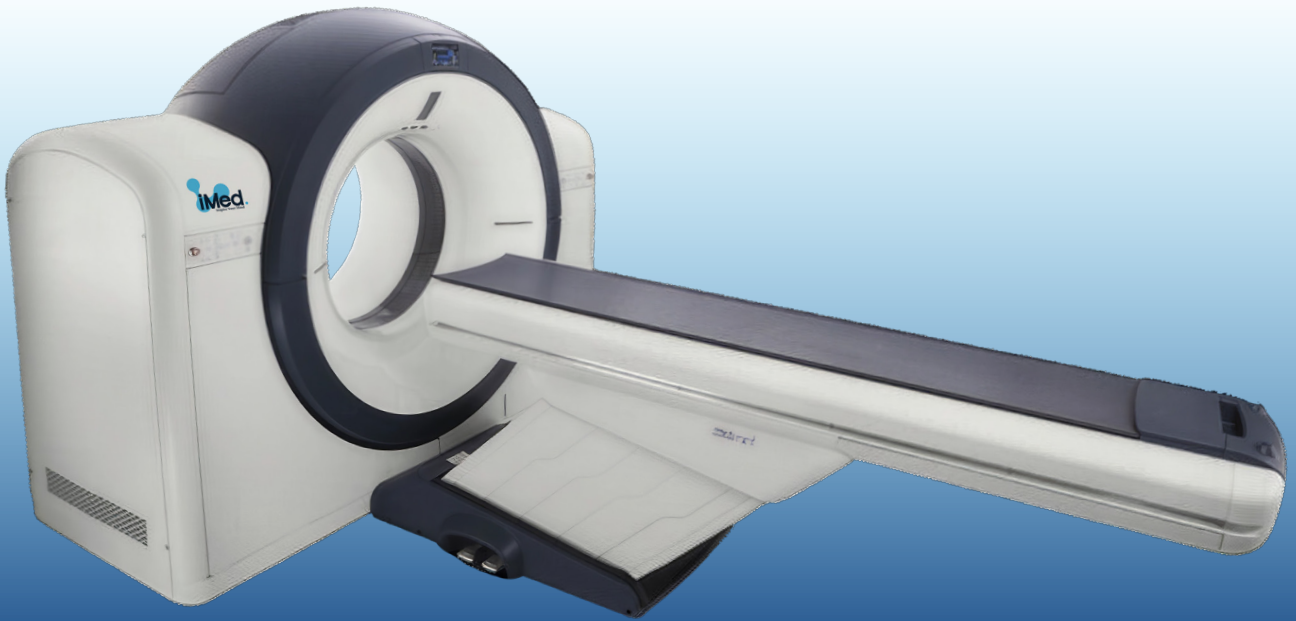




CT X-RAY SYSTEMS

IMED GENESIS CT SERIES



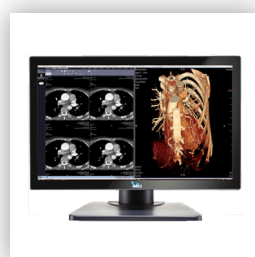
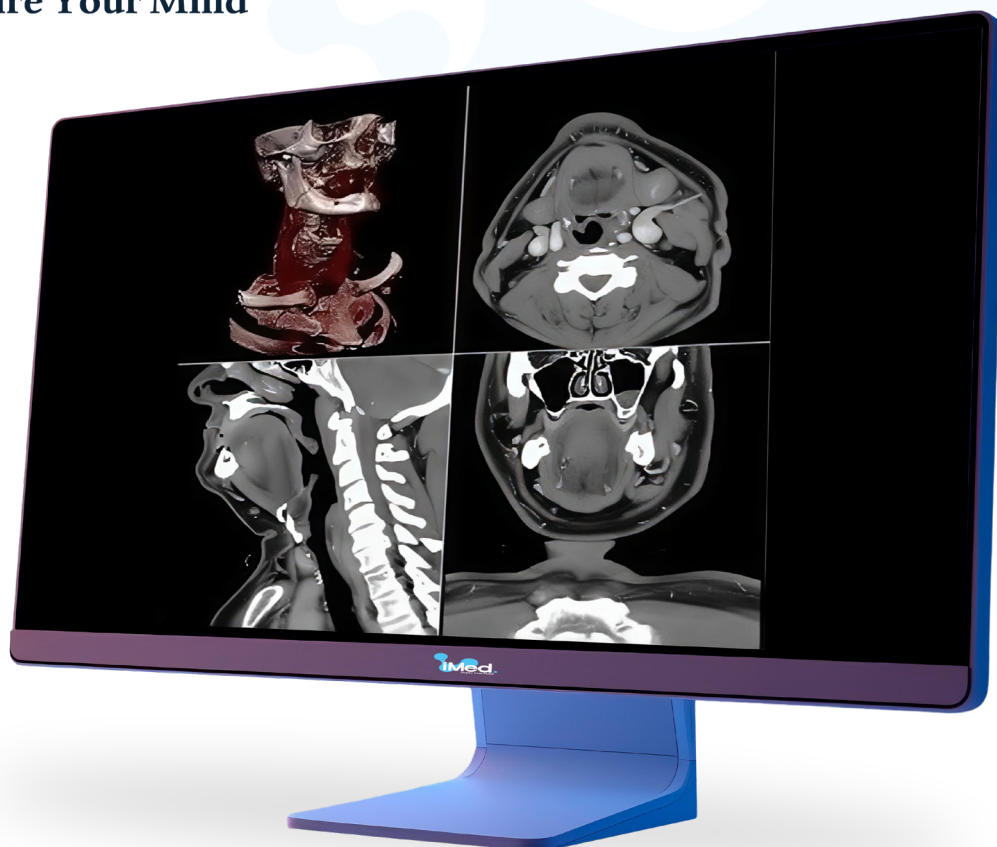
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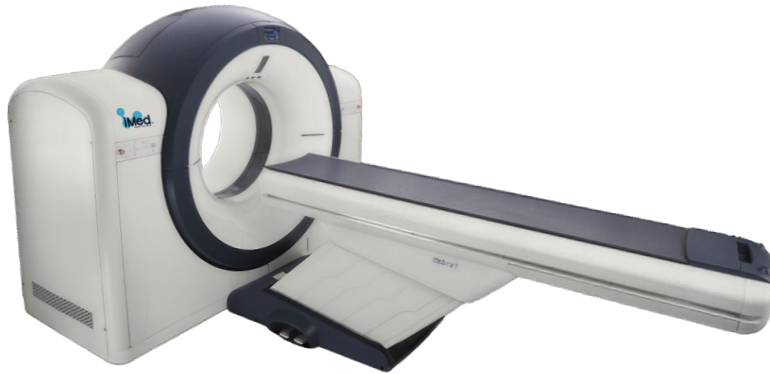
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Inspire Your Mind



IMED Genesis CT Series

SERIES CT-AeroVision / CT-Asteralis / CT-QuantumEdge



Enhanced image quality

The systems described in the passage use advanced methods to produce high-quality diagnostic images while lowering a patient's radiation exposure.

The primary technologies mentioned—LISAT™ iterative reconstruction and 3D mA modulation are dose-efficient imaging techniques used in medical devices like CT scanners.

LISAT™ iterative reconstruction

Iterative reconstruction (IR) is a sophisticated image-processing algorithm that creates an image from raw data. It is a modern alternative to the older, faster method known as filtered back projection (FBP), which was standard for many years but was prone to image noise.

Premium CT experience

This phrase indicates that the iMED CT platforms are challenging the long-standing industry trade-off between affordability and high performance. Traditionally, a low-cost system meant compromising on quality, features, or reliability. By providing a premium experience at a lower TCO, iMED aims to break that conventional compromise.

"Premium CT experience at a lower total-cost-of-ownership (TCO)"

The core value proposition of these CT systems is delivering a high-quality user experience and diagnostic results while significantly reducing lifetime costs for the healthcare provider.

Premium experience:

This suggests high-end performance, fast scan times, and advanced features for superior image quality and clinical capabilities.

Lower TCO: This includes savings on the initial purchase price, but also extends to long-term cost savings from:

High reliability:

Fewer breakdowns and less downtime reduce maintenance and service costs.

Operational efficiency:

The systems likely incorporate features that streamline workflow, save energy, and improve longevity, further minimizing costs over time.

CT System

- Conventional 70cm or Wide Bore 85cm gantry aperture
- PowerLink™ non-contact power and data transfer
- 16-slice to 128-slice acquisition with Slice Doubling Technology (SDT)
- 1cm to 16cm detector
- <0.4s per second rotation speed capacity
- Up to 100kW effective power
- Patient tables with up to 660 lbs load
- Touchscreen user interface

STANDARD FEATURE

STANDARD FEATURE	LISA TM	LISA TM	LISA TM
Technology measures for dose reduction	●	●	●
Auto Scan Trigger technology	●	●	●
Contrast media auto tracking	●	●	●
Multi-Phase Cardiac Imaging	●	●	●
Multi-Phase lung imaging (4D)	●	●	●
CT Injector	●	●	●
Pediatrics Imaging software	●	●	●
Beam Hardening Artifact Correction	●	●	●
SW for artifact reduction	●	●	●

Post-work Station

3D image reconstruction	●	●	●
Cerebral hemorrhage measurement	●	●	●
Separation of femoral head	●	●	●
Reconstruction of airway	●	●	●
Perspective technique of bone stent	●	●	●
3D reconstruction enhancement kit	●	●	●
Multidimensional contrast	○	○	○
Dynamic Enhancement Analysis	○	○	○
CT fat measurement	○	○	○

Post-work Station-Plus

Cardiac Imaging
Vascular Imaging
Lung Imaging
Abdominal Imaging
Orthopedic Imaging
Urological Imaging
Neuroimaging
Colon Imaging
Dental Imaging

APPEARANCE

Model	PATIENT TABLE	PATIENT TABLE-PLUS
Maximum Load Capacity (kg)	227kg	227kg
Horizontal motion accuracy	±1mm	±1mm
Maximum Horizontal Speed	200mm/s	200mm/s
Vertical Range	482-907mm	482-907mm
Horizontal travel range	≤1680mm	≤1800mm
AI equivalent @ 100KV	≤1.3mmAl	≤1.3mmAl
Vertical speed	25mm/s	25mm/s
Vertical lift time from Lowest to Highest	≤20s	≤20s
Vertical Driver life	Replace every 2-3 years	Replace every 2-3 years
Table Size & Weight	2260*470*650mm	2260*470*650mm
	500kg W/O Packaging	500kg W/O Packaging
	800kg W. Package	800kg W. Package
Noise Level	≤65dBA	≤65dBA
Vertical Motion Accuracy	±1mm (Table height > 600mm)	±1mm (Table height > 600mm)
	±3mm (Table height ≤ 600mm)	±3mm (Table height ≤ 600mm)
Accessories	Customized Headrest & Mattress & Knee pad	Customized Headrest & Mattress & Knee pad

TECHNICAL SPECIFICATION

Model	iMed-CT3350-3.5mHu*	iMed-CT3500-5mHu*	iMed-CT6450-5mHu*
CT Acquisition Row/Slice	32	32	64/128

Mechanical Motion Specification

Gantry Bore diameter mm with Cover Suggested	720	720	720
Gantry tilt/Without Cover	±30°, remote control	±30°, remote control	±30°, remote control
Field of view (FOV) mm	500	500	500
Distance of ISO-center to Floor mm	1030	1030	1030
Distance of Focal spot to ISO-center mm	573	573	573
Distance of Focal spot to Detector mm	1010	1010	1010
Type of Ring	Slip-ring	Non-Contact ring	Non-Contact ring

Detector

Detector type	Solid rare earth ceramic	Solid rare earth ceramic	Solid rare earth ceramic
Detector array Mode (Z Axis)	32	32	32
Detector width mm	20	20	20
Detector Row Elements	896	896	896
Detector Total Elements	896*32	896*32	896*32
Data Acquisition Rate (views/s)	4922	4922	4922

TECHNICAL SPECIFICATION

Model

CT-AreoVision-3.5mHu*

CT-Asteralis-5mHu*

CT-QuantumEdge-5mHu*

X-Ray Module

HV generator power KW	42	60	60
Operation voltage KV	140	80-140kv	80-140kv
Operation current MA	350	10-500mA	10-500mA
Tube Heat Capacity MHU	3.5	5.3	5.3
Maximum Tube Cooling Rate KHU/min	735	810	810
Tube Small Focal Spot/Large Focal Spot	0.7 x 0.8/1.2 x 1.4	0.5*1.0/1.0 1.0	0.5*1.0/1.0 1.0
Tube Vendor/PN	Varex GS-307XX	Varex GS-5177	Varex GS-5177
Tube Warranty	Follow Tube Vendor	Follow Tube Vendor	Follow Tube Vendor

Scan parameters

360° scan time sec	0.8	0.5	0.5
Minimum thickness mm	0.625	0.625	0.625
Effective slices	32	32	64
Maximum continuous scan duration	200sec	200sec	200sec
512x512 Matrix Reconstruction speed	60	60	60
Recon Max Matrix	1024*1024	1024*1024	1024*1024
Image matrix	512 512	512*512	512*512
	768*768	768*768	768*768
	1024*1024	1024*1024	1024*1024
Auto mA modulation	●	●	●
Dynamic Dose Modulation	●	●	●
Topo length Min mm	100	100	100
Topo Scan	●	●	●
Cardiac Scan	●	●	●
Cine Scan	●	●	●
Helical Scan	●	●	●
Axial Scan	●	●	●

Image Quality

High resolution	15.7 lp/cm @ 10% MTF	5.7 lp/cm @ 10% MTF	15.7 lp/cm @ 10% MTF
	12.8 lp/cm @ 50% MTF	12.8 lp/cm @ 50% MTF	12.8 lp/cm @ 50% MTF
Low Contrast	3.0mm @ 0.3% 35mGy	3.0mm @ 0.3% 35mGy	3.0mm @ 0.3% 35mGy

Weight

Estimated Weight, kg	W/O Package	W/O Package	W/O Package
(Approximately)	Gantry 1850	Gantry 1850	Gantry 1850
	PDU 150	PDU 150	PDU 150
	Cover: 200	Cover: 200	Cover: 200

Dimensions

LxWxH mm without cover			
(Approximately)	2500x1100x2310	2500x1000x2310	2500x1000x2310



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