PHILIPS

Equipment : **CT Scan 128 Slice**
Brand : **Philips**
Name : **Philips Incisive CT 128 Premium**

Features	Specifications
TUBE	
Anode Heat Capacity	8.0 MHU
Cooling Rate	1.608 kHU / min
Focal Spot	Small 0.5 x 1.0 ; Large 1.0 x 1.0
Anode rotation speed	105 Hz (6,300 rpm)
GANTRY	
Rotation Time	0.35, 0.4, 0.5, 0.75, 1.0, 1.5 seconds for 360° scans ;
Aperture	720 mm
Gantry Tilt	-24° to +30° with 0.5° increments
OnPlan Gantry Control	maximize workflow efficiency ; scan preparation from the gantry directly such as for patient selection, positioning, choose protocol
COUCH	
Maximum Scannable range	1,860 mm
Pitch	0.5 -1.5
Longitudinal speed	1 mm /s - 300 mm/s
Lowest table height	530 mm
Maximum load capacity	205 kg
GENERATOR	
Power Rating	80 kW
kVp setting	70, 80, 100, 120, 140 kV
mA range (step size)	5 - 667 (1 mA steps)
DETECTOR	
Slice	128 Slices
Coverage	40 mm
Collimations available	64 x 0.625 mm ; 32 x 0.625 mm ; 16 x 0.625 mm ; 12 x 0.625 mm ; 4 x 0.625 mm 2 x 0.625 mm ; 32 x 1.25 mm ; 12 x 1.25 mm
Slice Thickness (helical mode)	0.67 mm - 5 mm
Slice Thickness (axial mode)	0.625 mm - 10 mm
Scan Angles	240°, 360°
Scan field of view	500 mm
IMAGE QUALITY	
Spatial resolution	16.0 ± 10% lp/cm @ 0% MTF
Low contrast resolution	2.0 mm @ 0.3% ≤ 26 mGy CTDIvol (body)
Image noise	≤ 0.18% at 120 kV, 230 mAs, 10 mm slice thickness
Absorption range	-1,024 to +3,071 Hounsfield units
RECONSTRUCTION	
Reconstruction Speed	20 IPS
Standard Reconstruction Matrix	512 x 512
Ultra High Reconstruction Matrix	768 x 768 ; 1.024 x 1.204
Iterative Reconstruction	iDose4 Premium Package - improve image quality and metal artifact reduction
CLINICAL APPLICATION FEATURES	
iDose4	iDose4 balances high image quality, low dose, natural appearance, and easy workflow. iDose4 iteratively removes noise, prevents artifacts, and preserves morphological information using statistical and structural models in both projection (raw) and image domains.
OMAR	Improve image quality through artifact prevention and increased spatial resolution at low dose, reduces artifacts caused by large orthopedic implants
Dose Management	Automatic Current Selection (ACS) Dynamic Dose Modulation (DDOM) z-axis Dose Modulation (zDOM) Dedicated Pedatric Protocols Display of CTDIvol and DLP during planning
Bolus Tracking	an automated injection planning technique that permits the user to monitor actual contrast enhancement and initiate scanning at a pre-determined enhancement level. Combine with the SAS option for full automation and efficacy
Spiral Auto Start (SAS)	Spiral Auto Start integrates the injector with the scanner, allowing the technologist to monitor the contrast injection to check for extravasation, and to initiate the scan (with the predetermined delay) while in the scan room (with compatible injector selection)
Cardiac Plus Package	set of features designed to allow cardiovascular imaging of the heart. Includes Cardiac Scan, Cardiac Calcium Scoring, Cardiac Artery Analysis and Cardiac Function Analysis, as well as the integrated ECG monitor

Retrospective Tagging	Helical Retrospective Tagging allows the CT system to acquire a volume of data while the patient's ECG is recorded. The acquired data is "tagged" using Qsync and reconstructed retrospectively at any desired phase of the cardiac cycle
Prospective Gating	Prospectively triggers axial scans for accurate and reproducible calcium scoring studies, as well as coronaries analysis studies
Calcium Scoring	The Cardiac Calcium Scoring application is used to quantify the buildup of calcium plaque on the walls of the patient's coronary arteries and other relevant locations
Cardiac Coronary Artery Analysis	Extract, define and display coronary artery tree; Calculate the stenosis ratio of the extracted vessel
CFA (Cardiac Function Analysis)	A comprehensive cardiac analysis application that allows quick visualization of one or more cardiac phases, synchronization of multiple cardiac phases with interactive slab-MIP tools for review purposes, and a calculation of End Systolic Volume (ESV), End Diastolic Volume (EDV), Cardiac Output (CO), and Ejection Fraction (EF) for ventricular functional assessment
DoseRight Cardiac	ECG-triggered dose modulation reduces tube current during acquisition of non-desired phases. For example, only one phase may be required for coronary CTA, and the system will reduce the mA during the other portions of the acquisition, managing dose
Integrated ECG Monitor	Philips' advanced ECG monitor is used for gated cardiac scans. Integrated design eliminates the need for an additional ECG monitor and stand in the scan room
CONSOLE	
Operating System	Windows
Screen size (Diagonal)	19"
Monitor	1 LCD Monitor
Resolution	1280 x 1024
Remote control from console	Table : Up/Down, In/Out
DICOM	DICOM 3.0 configuration, DICOM Print/Store, DICOM Send
DICOM CD Writer	Yes
WORKSTATION	
Tipe	Server with 2 concurrent user
PC Client	2 units with 24" Monitor
Operating System	Windows
Advanced Softwares	Auto Cardiac segmentation Globe View IVUS like View Easy Stenosis calculation Volume Rendering Coronary tree extraction Vessel visualization Slab tools (including cut planes) LV Functional Assessment Cine Mode End Systolic Volume (ESV) calculation End Diastolic Volume (EDV) calculation Cardiac Output Ejection Fraction (EF) Calcium Scoring Advanced Vessel Analysis Automatic Bone Removal
Accessories & Support	
Dual Head Injector	Included
DICOM Printer	Included
Colour Paper Printer for reporting	Included
Lead Glass 100 x 120	Included
UPS	Included
Service & Warranty	2 (two) years
On-Site Training	2 (two) times (Basic Training & Advanced Training)