

CS - 3005

CT - SCANNER 128 SLICE



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► Product Configuration

Gantry	
Aperture	76cm
Tilt	±30°
Scan Field	50cm
Rotation Time	0.37 s/rot, 0.4 s/rot, 0.5 s/rot, 0.6 s/rot, 0.7 s/rot, 0.8 s/rot, 0.9 s/rot, 1.0 s/rot, 2.0 s/rot
Focus-to-isocenter Distance	1015 mm
Focus-to-ground Distance	1012 mm
Scan Localizer	Laser positioning lamp) Sagittal and transverse localizer
Guiding screen	Multi-function LCD screen

Patient table	
Max. table Load	250 kg
Max.Scannable Range	1850mm
Max.Movement Range	1950 mm
Inaccuracy in scanning step movement	≤ ±0.25 mm
Table Feed Speed	5 mm/s ~ 150 mm/s ±3%
Vertical Travel Speed	565 mm
Console	
CPU	≥3.5GHz
Memory	≥32GB

Hard-disk	≥5 TB
Image storage	≥16000000 (512×512 DICOM format)
Additional Storage	DVD Drive USB
LCD Monitor	24 “
Display matrix	1024×1024
X-ray Tube	
Tube Anode Heat Storage Capacity	5.3 MHU (3.8 MJ)

Cooling Rate	815 kHU/min (9.6 kW)
Max.Tube Voltage	140 kV
Focal Spot Size	1.0mm x 1.0mm 0.5mm x 1.0mm
Generator	
Max. power	50.4 kW
Max.Tube Voltage	140kV
Max.Tube current	420mA @ 120kV
Continue exposure	Up to 100 second

Detector system	
Material	GOS solid Detector
Detector rows	64 rows
Min. Slice thickness	0.625 mm
Detector coverage	40 mm
Detector Array	64×0.625mm
Image scan number in axial mode	128 slice
ImageQuality	
Spatial resolution (high-contrast resolution)	$\geq 21 \text{ lp/cm}$ (0% MTF); $\geq 17 \text{ lp/cm}$ (10% MTF); $\geq 10 \text{ lp/cm}$ (50% MTF)
Image noise	$\leq 0.35\%$
Low-contrast detectability	3.0 mm @ 0.3%
CT value	Water: $0 \pm 4 \text{ HU}$ Air : $-1000 \pm 10 \text{ HU}$

►► **Filming**

- Digital film documentation, connection to a suitable digital camera.
- Connection via DICOM Basic Print
- Interactive Virtual film Sheet

►► **Image transfer/Networking**

Interface for transfer of medical images and information using the DICOM standard.

Facilitates communication with devices from different manufacturers.

DICOM Storage (Send/Receive)

DICOM Query/Retrieve

DICOM Basic print

DICOM Get Worklist (HIS/RIS)

DICOM MPPS

DICOM Storage Commitment

DICOM Viewer on CD

►► **Application**

MPR

SSD (Surface Shaded Display)

Volume Calculation, VR

AutoVoice

Auto Send

Networking

PreView

Auto mA

Bolus Tracking

MIP

MiniP

VE

AIP

DICOM Viewer

Bone Remove

Vessel Measurable Analysis*

Dental Analysis*

Nerve System DSA*

Brain Perfusion*

Lung NoduleAnalysis*

Coronary Calcium Scoring*

Coronary Artery Analysis*

Virtual Colonoscopy*

►► Cardiac Scan System

Heart-scan CT with ECG-synchronized true isotropic volume acquisition using prospective

►► Scout Scan

4 projection mode: 0°, 90°, 180° and 270°

≥ 1850mm

Temperature

Scan room : 20 ~ 26 °C

Operation room: 18 ~ 28 °C

Humidity of Scanning room :

Scan room: 30% - 70%, Control room: 20% - 80%

Atmospheric Pressure : 70 kPa ~ 106 kPa

Power Supply Requirements

Power Capacity : 100 kVA

Input Voltage : Equipped with transformer,

Power supply option: 380-480VAC

Voltage Variation : Tolerance < ±5%

Frequency : 50Hz/60Hz ± 1Hz

Environment Requirements

Min. Area of scanning room : 22.4m² (5.6m × 4.0m)

Recommended Room Size : 30m² (6.0m × 5.0m)

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

Our Products & Technologies



UV/VIS
Spectro 2080+
Double Beam



Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
Chromatograph



Atomic Absorption
Spectrophotometer



Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



PCR/Gradient PCR/
RTPCR



TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



Analytical
Foundation

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.



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