

장비 사양서

장비심의

제2023-31호 / 컴퓨터 단층 촬영기(Computed Tomography)

1. 기 본 사 양 (기본적구성)

1) Multi-Slice Slip-Ring Gantry

① Maximum number of channel per 360° rotation : 2 × 192slice or
512slice with 1tube

② Gantry aperture size(cm) : 78cm or more

③ Maximum scan field of view(cm) : 78cm or more

④ Minimum rotation time(sec) : 0.28sec or less

2) Patient table

① Horizontal Scan able Range(metal-free, cm) : 175cm or more

② Table load capacity (kg) : Max 220kg or more

3) X-ray tube unit

① Type and maker : Quantix160 or Vectron×2

② Anode heat storage capacity (MHU) : 30MHU or more

③ Focal Spot size(mm) : Small 0.4 × 0.5 / 0.6 × 0.7mm or
Small 0.7 × 1.0mm / 1.2 × 1.6mm

④ Focal Spot size(mm) : Large 0.8 × 1.1mm or Large 1.5 × 1.8mm

4) High frequency generator

① Max output power : 100kW or more

② Minimum Tube voltage : 70kVp or more

③ Maximum Tube voltage : 140kVp or more

④ Maximum Tube Current range : 1300mA or 2,600mA(1,300mA×2)

5) Multi-Slice detector

① Detector material : StellarInfinity Detector x 2 or
Gemstone Clarity Detector

② No. of detector rows in z-axis: 192ch DAS x 2ea or 256 DAS

③ No. of acquisition slice per rotation: 192slices x 2 or 512slice

④ Max. z-axis detector coverage: 57.6mm x 2 or 160mm

⑤ High Pitch Scan Protocol with full z-axis coverage : 1.531 pitch or
more

6) Operation console & Host computer systems

① Main computer : Clarity OC or AWP

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- ② CPU : Six core Xeon 2.66GHz or Quad core Xeon 3.60GHz
- ③ Memory : 16GByte RAM or more
- ④ Hard disk for image & raw data storage capacity : 3.5Tbyte or more
- ⑤ 2nd image storage device : CD&DVD-RW & USB
- ⑥ Monitor: 19" Flat LCD or more
- ⑦ Recon Time: 65 images/sec or more
- ⑧ MIP, MPR, SSD including Curved MPR, MIP
- ⑨ Volume Rendering Technique
- ⑩ Volume viewer or volume evaluation and dynamic evaluation
- ⑪ Scan and recon control and display, analysis, processing
- ⑫ Automatic filming of selected images or series of images
- ⑬ Two-way bi-direction intercom system
- ⑭ Dose modulation software : Care Dose 4D or Smart mA
- ⑮ Bolus tracking software : SmartPrep or Care Bolus
- ⑯ Quickly review S/W : Slab view or equivalent
- ⑰ Functions to improve workflow - MPR Image reformat
: Realtime MPR or Direct MPR
- ⑱ Advanced Modeled Iterative Reconstruction : ADMIRE or True Fidelity
- ⑲ Large perfusion studies : Adaptive 4D Spiral plus or Dynamic Acquisition
- ⑳ Automatically detect the optimal phase(end-systole, end-diastole)
: Cardio Best Phase or Snap shot Freeze
- ㉑ Functions to improve workflow - Image reformat using Raw data
: Workstream 4D or equivalent
- ㉒ Partial scanning to reduce X-ray exposure dose-sensitive regions
: X-careor Organ dose modulation
- ㉓ Automated, organ-sensitive voltage setting to improve IQ and CNR
: CARE kV or kV Assist
- ㉔ Dedicated pediatric CT imaging, including 70kV scan modes : Provid
- ㉕ Fast scan mode with over 430mm/sec speed : Flash turbo or Hyper Drive
- ㉖ Advanced Metal Artifact Reduction : iMAR or Smart MAR
- ㉗ Scan mode for less than 0.24mm image resolution : Z-UHR mode or HD scan

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㉘ Auto bone removal(including Neuro): Neuro DSA or Auto bone Xpress

㉙ Vessel analysis : vascular analysis or VesselIQXpress

7) Cardiac Application Package

① Cardiac Temporal resolution 1-segment : 115msec or less

② Prospective ECG triggered sequences

③ Retrospective ECG gated spiral scans

④ Percentage triggering or Inverse triggering

⑤ ECG-synchronized volume acquisition

⑥ Intergrated ECG device

⑦ ECG dose modulation

⑧ Image preview, ECG editing or phase triggering

⑨ Optimized Cardiac scan phase selection : Smart phase or
Cardio best phase

⑩ The display and analysis of dynamic CT data of the heart to
evaluate hemodynamic changes in myocardial ischemia and assess
: Dynamic cardiac perfusion or Heart perfusion scanning

2. 구 성 품

1) Multi-Slice Slip-Ring Gantry 1Set

2) Patient table 1Set

3) X-ray tube unit 1Set

4) High frequency generator 1Set

5) Multi-Slice detector 1Set

6) Operation console & Host computer systems 1Set

7) Cardiac Application Package 1Set

8) Accessories 1Lot

① Scan support accessories(Head Holder, Arm support,
Long body strap, Easy mover, Phantom for PM et. al) 1Set

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② Water Chiller(수냉식) or HVAC(공냉식)	· · · · · 1Set
③ Automated CO2 Insufflator for Virtual Colonoscopy	· · · · · 1Set
④ Auto Dual Injector(Ceiling type, Contrast dose management software 포함)	· · · · · 1Set
⑤ Heating Cabinet	· · · · · 1ea
⑥ ECG monitor(Patient care)	· · · · · 1Set
⑦ CCTV (4ch 1 monitor)	· · · · · 1Set
⑧ Air-purifier	· · · · · 1ea
⑨ Apron(Thyroid, Body)	· · · · · 3Set
⑩ Apron hanger	· · · · · 1Set
⑪ IV Pole(천정형, 이동형)	· · · · · 2Set
⑫ Separate, All Model Compatible 3D Reformation Processing system	· · · · · 1Set
⑬ PC for Client	· · · · · 1Set
⑭ Operating & Gantry Room interior & Furniture (Operation Desk & Chair & Sky view et. al)	· · · · · 1Lot

3. 특 이 사 항

- 1) Operating / Service Manual 각각 제공한다.
- 2) 모든 장비의 구성 및 Accessary는 사양대로 제공할 것.
- 3) 3years Warranty.
- 4) 회사의 최신장비, 최신 Model을 납품.
- 5) PACS or EMR Interface 연동.
- 6) 사양 검토 시 우리병원에 제출한 모든 것.
- 7) All Software Install program & All service key 제공.
- 8) 기존 사용중이던 장비 철거는 을의 비용으로 한다.

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- 9) 전기는 분전함까지이며, 분전반 내부 차단기를 포함하며, 콘센트(전기, 통신), 등기구, 조명, 천정, 스피커, 촬영중 표시등을 포함 한다.(현장확인 바람)
 - 장비와 연결된 자체 방송 및 카메라 시설 교체 설치.
 - 전기 인입공사, 소방 : 병원 공사
- 10) 바닥 Cable Duct 설치작업, 바닥 마감 작업등을 포함 한다.
- 11) 인테리어는 실 사용자, 시설관리팀과 사전 상의하여 작업한다.
- 12) 설비
 - 응급 CT실 기존 냉난방기 3대 중 1대는 고장으로 철거하며, 인테리어 마감한다.
 - 공조 급배기 디퓨저 철거 및 교체한다.
- 13) 설치작업에 필요한 사항은 을의 책임하에 사용하기까지 모든 책임을 지고 진행 완료 한다.

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