입찰 규격서

▶ 입찰서는 최소한의 기준사양을 알려드리오니 기준사양에 적합하거나, 그 이상의 규격을 가진 제품을 제시하여 주시기 바랍니다.

Angiography System_Bi **(거치형 디지털식순환기용 엑스선투시 진단장치)**	**수량(Q'ty)** **1 sys**
A. FEATURES	
1. The system provides insightful live image guidance.	
2. It supports more flexible working environment.	
3. X-ray imaging technology provides high quality imaging for a comprehensive range of clinical procedures, achieving excellent visibility at ultra-low X-ray dose levels for patients of all sizes.	
4. It enables you to efficiently view, control and manipulate all applications from a single point in the control room.	
B. CONFIGURATIONS	
1. Floor mounted C-Arm Unit	1 set
2. Ceiling Suspended Lateral C-Arm Unit	1 set
3. Patient table	1 set
4. Microprocessor controlled, 100kW high frequency converter generator	2 sets
5. Frontal X-ray tube assembly	1 set
6. Lateral X-ray tube assembly	1 set
7. Frontal Digital Flat Panel Detector	1 set
8. Lateral Digital Flat Panel Detector	1 set
9. Monitor ceiling suspension for LCD monitors	1 set
10. 55" color LCD monitor in the exam room	1 set
11. On-Screen display	1 set
12. Storage Capacity	1 set
13. Digital processing	1 set
14. Automatic Position Controller	1 set
15. Viewing station for patient management	1 set
16. Table Side Operation Module	1 set
17. Radiation Dose management package : DoseWise or CARE+CLEAR	1 set
18. Advanced Image Processing technique : Clarity IQ or CLEARMAX	1 set
19. Dose management	1 set
20. DICOM Interface	1 set
21. Angiography imaging applications	1 set
22. Options : Contractor or Supplier should provide under the items (A or B)	1 set
23. Manufacturer Accessories	1 pkg
24. Local Accessories	1 lot

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C. SPECIFICATIONS	
1. Floor mounted C-Arm Unit 1) Motorized or manual control 2) Head Position Cranial/Caudal: -90 ° / +90 ° or +55 ° / -45 ° 3) Head Position LAO/RAO: +120 ° / -185 ° or +130 ° / -130 ° 4) Variable focal spot-to-detector distance: 89.5 - 119.5 cm or 90 - 120 cm	1 set
2. Ceiling Suspended Lateral C-Arm Unit 1) Cranial/Caudal : +45 °/ -45 ° or +55 ° / -45 ° 2) Rotation angles (LAO/RAO) :-27 ° / -115° or +120 ° / 0 ° 3) Focal spot to detector distance : 87.5 - 130 cm or 94 - 122 cm	1 set
3. Patient table 1) Tabletop length : 281.5 cm or more 2) Tabletop width : 45 cm or more 3) Motorized tabletop height adjustment : 74 ~ 102cm or 75 ~ 110 cm 4) Transversal float : 35 cm or more 5) Maximum allowable load weight : 325 kg or more 6) CPR can be performed at any position of table	1 set
4. Microprocessor controlled, 100kW high frequency converter generator 1) Voltage range : 40 to 125 kV 2) Maximum current : 1000 mA at 100 kV	2 sets
5. Frontal X-ray tube assembly 1) High performance X-ray tube with Spiral groove or liquid bearing technology 2) Max. exposure voltage: 125kV or more 3) Focal spots: 0.4 / 0.7 mm or 0.3 / 0.4 / 0.7 mm 4) Focal Spot nominal power: 30 / 65 kW or 26 / 40 / 90 kW 5) Anode heat capacity: 5,200 KHU or more	1 set
6. Lateral X-ray tube assembly 1) High performance X-ray tube with Spiral groove or liquid bearing technology 2) Max. exposure voltage: 125kV or more 3) Focal spots: 0.5 / 0.8 mm or 0.3 / 0.4 / 0.7 mm 4) Focal Spot nominal power: 45 / 85 kW or 26 / 40 / 90 kW 5) Anode heat capacity: 5,200 KHU or more	1 set
7. Frontal Digital Flat Panel Detector 1) Amorphous silicon flat detector 2) Detector size (Diagonal): 12 inch or 10 inch 3) Maximum Input fields: 48cm or more 4) Pixel size: 154 μm	1 set
8. Lateral Digital Flat Panel Detector 1) Amorphous silicon flat detector 2) Detector size (Diagonal): 12 inch or 10 inch 3) Maximum Input fields: 39 cm or more 4) Pixel size: 184 μm or less	1 set
9. Monitor ceiling suspension for LCD monitors 1) Ceiling suspended monitor can be motorized or manual height adjustment 2) Monitors rotate range : 330 ° or more	1 set

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10. 55" color LCD monitor in the exam room 1) 55" 8 Megapixel color LCD with 3840x2160 resolution or more 2) Max Brightness : 400 Cd/m2 or more 3) Viewing angle : 176 ° or more 4) Display information from up to 8 sources simultaneously 5) Resize and/or enlarge information at any stage during the case 6) Backup monitor attached rear side of large monitor or equivalent	1 set
11. On-Screen display 1) X-ray indicator 2) X-ray tube temperature condition 3) Radiographic parameters : kV, mA, ms 4) Stand rotation, angulation of the stand positions 5) Source Image Distance(SID) 6) Table height 7) Detector field size display 8) General system message 9) Selected frame speed 10) Fluoroscopy mode 11) Integrated fluoroscopy time 12) Air Kerma dose(both rate & accumulated X-ray dose) 13) Dose Area Product(both rate & accumulated X-ray dose)	1 set
12. Storage Capacity 1) Storage capacity : 100,000 images or more at 1024^2 25,000 images or more at 2048^2 2) More than 1,024 frames of fluoro images should be stored for patient review	1 set
13. Digital processing 1) Pulse rates : 0.5, 1, 3.75, 7.5, 15, 30 or 0.5, 1, 2, 3, 4, 6, 7.5, 10, 15, 30 p/s 2) Eanble full pixel resolution for acquisition and strorage single images and series (up to 7.5 f/s) with a resolution of up to 4.72 megapixel (2480 pixel x 1920 pixel)	1 set
14. Automatic Position Controller - Recall stand positions using reference image source. - Reproducing precise coordinates (height, longitude and latitude) - Brings the table back to the original table position stored, without applying additional X-ray dose.	1 set
15. Viewing station for patient management 1) Power on/off of the system 2) Control the review of a patient exam 3) Exam and run cycle 4) Adjustment of contrast, brightness, and edge enhancement 5) Exam, run, and image stepping 6) Run and exam overview 7) Basic review functionality as image invert and digital zoom 8) Go to basic settings 9) Reset fluoroscopy timer and switch X-ray on/off. 10) Patient Review and Data monitor : 19" TFT Color monitor or more	1 set

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16. Table Side Operation Module 1) Fluoroscopy Flavor selection as defined 2) Shutters and wedge positioning 3) Manual or automatic wedge including position on the last image without radiation 4) Fluoro Storage to record the last ten seconds of fluoroscopy 5) Selection of the detector field size 6) Preferred beam width and Fluoro Grab to store the last fluoro image 7) Reset of the fluoroscopy buzzer 8) Real-time substraction and Fluoro Trace subtract 9) Tabletop float 10) Table height position 11) Source Image Distance (SID) selection 12) Stand positioning 13) Longitudinal movement of the stand along the ceiling 14) Stand rotation in an axis perpendicular to the ceiling 15) Store and recall of two scratch stand positions including SID 16) Emergency stop button 17) Accept button of the Automatic Positioning Control 18) Touchscreen controller for system software	1 set
17. Radiation Dose management package : DoseWise or CARE+CLEAR 1) A set of techniques, programs and practices built into the X-ray system that allows excellent image quality during each interventional application, while at the same time managing x-ray dose at every opportunity.	1 set
18. Advanced Image Processing technique : Clarity IQ or CLEARMAX 1) Advanced image processing technology 2) Flexible digital imaging pipeline 3) Clinical optimized parameters in the entire imaging chain displaying it as a full color image.	1 set
19. Dose management 1) X-ray filtration : 0.2/0.5/1.0 mm Cu. or more. 2) Manual or Automatic filter control 3) Virtual collimation of the shutters and wedges on the last image. - It eliminate additional X-ray dose during coliimation changes 4) Double shutters and wedge filters 5) Anatomical filters - Filters designed to compensate for large absorption differences in the object 6) Automatic wedge positioning - Wedge filters can be positioned automatically according to gantry positions 7) Total dose information	1 set
20. DICOM Interface 1) DICOM Work List Management (WLM) 2) Modality Performed Procedure Step (DICOM MPPS) 3) DICOM SC/XA 4) DICOM SR	1 set

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21. Angiography imaging applications 1) Pulsed fluoroscopy 2) Digital Subtracted Angiography 3) Roadmap 4) Live Pixel Shift 5) Standardize protocal loading : ProcedureCards or Organ Program Editor 6) Real-time image enhancement during the StentBoost Live run : StentBoost & StentBoost Live or Clearstent & Clearstent Live 7) ECG signal on fluoro : Physio Viewing or ECG signal on fluoro 9) Quantitative Coronary Analysis(QCA) 10) Quantitative Vascular Analysis(QVA)	1 set
22. Options : Contractor or Supplier should provide under the items (A or B) [A Type] 1) View pad: Remote controller 2) Advanced Touch screen module function : Enables table side control of applications via tablet-like interface with on screen image display. 3) Extension to FlexVision Pro : Enables full and flexible viewing and control at table side of all connected applications 4) FlexSpot : Integrated work spot in the Control room to view, control and manipulate all applications within a single view & keyboad, mouse 5) Dynamic Coronary Roadmap(DCR) : Real-time, automatic, motion compensated coronary imaging for guidance [B Type] 1) Detector integrated control panel - Adjust C-arm movement, angulation, SID and rotation 2) EP shield - Kit for shielding of electromagnetic fields of the X-ray tube to avoid interference with the EP Measuring system, as well as for shielding the flat detector 3) Roadmap Opacity - Individual windowing of vessel map and device image 4) Overlay Reference - Full-filled vessel image overlaid on live image for image guidance Change vessel map density for better image quality on live fluoro Seamless integration into workflow and in daily clinical practice	1 set
23. Manufacturer Accessories - Mattress - Arm supports - Dripstand - Pan handle - Ceiling mounted radiation shield - Table mounted radiation shield - Rail accessory clamps - Set of elbow support - Intercom - Wireless footswitch - Examination light	1 pkg 1 ea 1 ea 1 ea 1 ea 1 ea 1 ea 1 ea 1 ea 1 ea 1 ea 1 ea
26. Local Accessories - Refer to the addendum	1 lot

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D. REMARKS 1. Installation Contractor is responsible for installation of this equipment at customer's premise. 2. The warranty for the equipment is three years after inspection. (including all components except those specified as consumables) 3. An inspection of all components must be conducted every two months until the equipment is decommissioned, and the results must be submitted in writing to the medical engineering team. 4. The warranty period for parts supplied for a fee after the warranty period ends will be one year. 5. Before the end of the warranty period, a full inspection of the equipment must be carried out, and any defective parts and components must be restored to normal condition. The battery must be replaced regardless of its condition. 6. A copy of the HDD for the recovery of this equipment, or an equivalent solution, must be provided. If provision is not possible, software reinstallation due to failure must be provided free of charge by the supplier until the equipment is decommissioned. 7. Service passwords, hardware keys, and other encryption systems necessary for using and maintaining the equipment must be provided. If encryption systems cannot be provided, technical support must be offered free of charge at any time. 8. All service activities, including preventive maintenance, must be reported to the medical engineering team before work, and confirmation from the medical engineering team must be obtained after work. Any service that is not confirmed by the proper procedures will be considered invalid. 9. The service manual must include circuit diagrams and information necessary for post-maintenance. If not submitted, the warranty period will be extended by one year. (If the circuit diagram is not included, alternative A/S information recognized by the medical engineering team must be provided.) 10. This configuration includes all options provided by the supplier. Any additional or confirmed options before delivery must be included in the final delivery. 11. The "Supplier" must provide training to the operator if the "Purchaser" asks, to ensure the equipment can be used efficiently. The "Supplier "must also cover the cost of maintenance and service training provided by the manufacturer for the Medical Engineering team, which includes basic equipment training and any other relevant training for the equipment in the contract. The training schedule will be set by mutual agreement. 12. The terms for entering into a maintenance contract after the warranty period are as follows: 1) The contract amount will follow the proposal submitted at the time of the agreement. 2) The contract amount and conditions are not unilateral and can be reasonably adjusted within the proposed amount based on mutual trust. 3) The contract conditions include all parts. 13. The "Supplier" must replace the Main System with the latest specifications once within 48 months after the installation of the equipment. 14. All provisions in these Remarks apply equally to all items supplied by local agencies and third-party vendors included in the specifications	