

의료장비 일반 사양서

문서번호: 영의26-0915호

신 청 부 서		영상의학과	신청수량	1 set	
장비명	국 문	디지털 X-선 촬영장치	도입구분	분 류	A11110.01[2]
	영 문	Digital Radiography X-ray system		사 유	노후

I. General Specification

아래 사양은 기본적인 것으로 유사한 기능이나 상회하는 사양이라도 무방합니다.

A. Feature :

1. This inverter system is high frequency and the tube voltage characteristic of low ripple very close to constant voltage type is realized, so that the X-ray output is increased substantially.
2. The system produces large 17"x17" images. while maintaining the extremely high resolution of 140micron.
3. The focal height of the overhead x-ray tube crane can be synchronized with the bucky stand.
4. The long vertical ceiling support travel range, which is 1600mm, provides sufficient SID for images in the supine position as well as for low position images in the standing position.

B. Specifications :

1. Inverter type high Voltage Generator

- 1) Power : 80kW or more
- 2) mA range : 10 ~ 1,000mA
- 3) Kvp range : 40 ~ 150 kVP
- 4) Auto Exposure Control

2. 6-way X-ray Radiography Table

- 1) Size of tabletop : 810 X 2,350mm or 812 X 2,410mm
- 2) Maximum lifting weight : 295kg or more
- 3) Auto tracking, Auto centering
- 4) Distance between table top & floor : 535 ~ 850mm or 545mm ~ 900mm

3. X-ray Tube Unit

- 1) Focal spot size : 0.6/1.2mm or more
- 2) Anode heat storage capacity : 400kHU or more

4. Ceiling suspended X-ray Tube Support

- 1) Range of movement
 - Vertical travel : 1,600mm or more
 - Longitudinal travel : 2,950mm or more
- 2) Rotation about the horizontal axis
 - Angle of rotation : +120° ~ -180° or more
 - Operation : Manual, electromagnetic lock
 - Display : Angle of rotation display digitally

5. Tilting type X-ray Detector Stand

- 1) Vertical stroke : 380 ~ 1,850mm or more
- 2) Tilting angle of bucky device : -20° to 90° or more
- 3) Autotracking

6. Flat Panel Detector

- 1) Type : Indirect conversion type(CSI type)
- 2) Detector size : 17 x 17 inch or 18 x 18 inch
- 3) Resolution : 3.5LP/mm or more
- 4) Pixel pitch : 140μm or more
- 5) Number of pixels : 3,036 x 3,040 Pixels or more
- 6) Gray scale : 16-bit



(Handwritten signature)

7. Wireless Flat Panel Detector

- | | |
|------------------------|--------------------------------------|
| 1) Type | : Indirect conversion type(CSI type) |
| 2) Detector size | : 14x17 inch |
| 3) Resolution | : 3.57LP/mm or more |
| 4) Pixel pitch | : 140 μ m or less |
| 5) Number of pixels | : 2,466 x 3040 pixel or more |
| 6) Gray scale | : 16 bit |
| 7) Glass-Free Detector | |

8. Digital Image Processing

- | | |
|------------------------------|--------------------------|
| 1) Image processing PC | |
| - CPU | : Intel core I5 or more |
| - Memory | : 8GB or more |
| - OS | : Windows 11 or more |
| - Capacity of Hard disk | : 1TB or more |
| 2) Display | |
| - Display Monitor | : 22inch monitor or more |
| 3) Image processing | |
| - Imaging processing program | : Elui or S-View |
| - Image acquisition time | : 5sec or less |

9. Collimator

- | | |
|-----------------------------|----------------|
| 1) Type | : Rectangular |
| 2) Max. field at SID 100cm | : 45 x 45cm |
| 3) Min. field at SID 100cm | : Fully closed |
| 4) Auto collimator function | |



10. Long-bone Detector

- | | |
|------------------------|--------------------------------|
| 1) Conversion material | : A-si TFT or IGZO TFT |
| 2) Detector size | : 430 x 1,290 mm or more |
| 3) Resolution | : 3.51 lp/mm or more |
| 4) Pixel pitch | : 140 μ m |
| 5) Number of pixels | : 3,052 x 9,166 pixels or more |
| 6) Gray scale | : 16 bit |

11. Auto moving detector stand and tube support

12. Smart stitching : Spine and long bone imaging

14. Dose Area Product

15. DICOM 3.0 Full Support

16. Accessory

- | | |
|--------------------------------|-------|
| 1) Detector Holder | |
| 2) Apron, Thyroid | : 2ea |
| 3) Service & Operating Manual | |
| 4) Touch Monitor for Exam Room | |

II. Consist of : (A Model or B Model)

Model A : INNOVISION-SH

- | | |
|---|-------|
| 1. Inverter type high frequency X-ray Generator | 1sets |
| 2. 6-way X-ray Radiography Table | 1sets |
| 3. Heavy duty X-ray Tube Unit | 1sets |
| 4. Ceiling Suspended X-ray Detector Stand | 1sets |
| 5. Tilting type X-ray Detector Stand | 1sets |
| 6. Fixed Flat Panel Detector | 2sets |
| 7. Wireless Flat Panel Detector | 1sets |
| 8. Digital image processing | 1sets |

9. X-ray Beam Collimator	1sets
10. Long-bone Detector	1sets
11. Whole- Spine Package	1sets
12. Auto Synchronization	1sets
13. DAP (Dose Area Product)	1sets
14. DICOM 3.0 Full Support	1sets
15. Additional Operation Touch Monitor for Exam Room	1ea
16. Service & Operating Manual	1ea
17. Detector Holder	1ea
18. Apron, Thyroid protector	2ea

Model B : GC85A Vision+

1. Digital Detector (Stand/Table)	2sets
2. Digital Detector (3rd Wireless)	1sets
3. Automatic Collimator with Each Blade Control	1sets
4. Assembly Patient table (Flexible 6-way)	1sets
5. Wall stand	1sets
6. Imaging Workstation(S-Station)	1sets
7. Connectivity	1sets
8. High Voltage Generator	1sets
9. X-ray Tube	1sets
10. Ceiling-mounted Tube Heat Unit	1sets
11. Dose Area Product(DAP)	1sets
12. Smart Stitching(Whole spine stitching)	1sets
13. Full Auto Positioning	1sets
14. Advanced Application Software	1sets
15. Vision Auto Camera	1sets
16. Long length detector	1sets
17. Touch Monitor for Exam Room	1ea
18. Service & Operating Manual	1ea
19. Detector Holder	1ea
20. Apron, Thyroid protector	2ea



III. Remarks

1. 본 장비의 설치 및 가동은 최종 사용자 현장에서 입찰자/공급업체의 책임하에 수행 되어야함 (기존장비 철거 및 천정 마감 공사 포함)
2. 공급업체는 성능 테스트 이후 보증기간 3년 보장
3. 한국 식약처 의료기기 수입품목허가증 사본 제출