

# 2 DETECTOR

## 구 매 (영 문) 규 격 서

### Commodity Description

관세분류번호 HSK.NO	품목번호 Item No	품명 및 규격 Description	단위 Unit	수량 Quantity
9022.14.1090		Digital Radiographic Mobile X-ray System (2 Deceptor)	system	1

#### A. Features :

1. During travel the collapsible column and compact X-ray tube design does not obstruct visibility.
2. This system is attributable to a purpose-developed power assist optimized system. Controls and sets the optimum traveling speed by the amount of pressure applied to the steering bar. Real time relay system produces the smooth as silk drive.
3. The frontal section of the main unit has been purposefully designed to allow a wide forward field of view during traveling. This characteristic minimizes risks of collision and hence injury to hospital staff patient and visitors.
4. This system is equipped with a thin flat panel detector. instead of using standard cassettes or an IP, simply position FPD at the region of interest, This will enable high quality mobile radiography with a large field of view.
5. After exposure, various types of processing can be applied to the LCD monitor, Image processing makes it possible to obtain the required image information selectively.
6. A light pressure applied to the drive handle moves the system in a natural manner, allowing it to be controlled easily and effortlessly. Accurate and smooth positioning is available through a counterbalance system, allowing for easy positioning and exposing.
7. The generator has a variable range of frequency. In practical terms, this capability translates to a very high quality radiation intensity and hence production of excellent image quality vis-a-vis other types of generator.

#### B. SPECIFICATION :

##### 1. Inverter type high frequency X-ray generator

###### 1) Rating

- Max. Tube voltage : 133kV or more
- Max. Tube current : 400mA or more
- Max. power : 32kW or more

###### 2) Adjustment of tube voltage

: 40 - 133kV or 40 - 150kV

###### 3) Setting range of mAs

: 0.32 - 320mAs

###### 4) Max. Frequency

: 60kHz or more

###### 5) kVp, mAs Display

: Digital or equiv.

###### 6) APR

: 441 programs or more

7) Plug in exposure	: Yes
8) Battery status display	: Bar graphe or equiv.
2. Heavy duty X-ray tube unit	
1) Generator and tube separation type	
2) Effective focal spot size	: 0.7 / 1.3mm or 0.6 / 1.2mm
3) Target angle	: 14° or 16°
4) Max. anode heat storage capacity	: 300kHU
3. Main body with cart	
1) X-ray tube support	
- Arm system	: Collapsible arm
- Focal point height (from floor)	: 680 to 2025mm or 683 - 2022mm
- Max. Arm length	: 1203mm or more
- Column rotation range	: ±270°
- Tube rotation (X-ray tube axis rotation)	: -30° ~ +90° or -10° ~ +90°
- Tube rotation (Arm axis rotation)	: ±180°
- Collimator rotation	: ±90°
2) Drive system	
- Crash bumper interlock	
- System width	: 576mm or less
- Drive speed	: Max. 5.6km/h or 5km/h
- Climbing power	: Max. 7°
3) Weight	: 440kg or 575kg
4.X-ray beam collimator	
1) Type of lamp	: LED
2) All free buttons on collimator and column	
- Adjusment of focus-film distance, rotation, extension and contraction of the cross-arm	
5. DR workstation	
1) Touch screen workstation	
- Type	: Built-in
- Monitor size	: 19"
- Max.image storage capacity	: About 3,500 images or more
2) Image processing function	
- Contrast processing	
- Noise reduction	
- Multi-frequency processing	
- Grid pattern remove process	
6. Wireless flat panel detector	
- FPD type	: Wireless
- Scintillator	: CSI
- Effective field of view	: 14" x 17"
- Effective number of pixels	: 2,560 x 3,072 pixels or 2,520 x 3,032 pixels
- Pixel pitch	: 140micron or less
- Gradation	: 16bit
- Weight of unit	: 3.17kg or less
- Water proof	: Yes

- Image preview
- Battery type

: Less than 3sec  
: Exchangeable

#### 7. Additional wireless flat panel detector

- FPD type
- Scintillator
- Effective field of view
- Effective number of pixels
- Pixel pitch
- Gradation
- Weight of unit
- Water & Dust proof
- NFC function
- Image processing time
- Battery type

: Wireless  
: CSI  
: 10" x 12"  
: 2,048 x 2,560 pixels or 1,752 X2,036 pixels  
: 140micron or less  
: 16bit  
: 3.0kg or less  
: IP53 or more  
  
: About 3sec  
: Exchangeable

#### 8. Mobile Grid(14X17) & Grid Case

#### 9. DAP meter

#### 10. Lithium Polymer Battery

#### 11. Battery Charger

#### 12. Operation Manual

### **C. Configurations :**

1. Inverter type high frequency X-ray generator
2. Heavy duty X-ray tube unit
3. Main body with cart
4. X-ray beam collimator
5. DR workstation
6. Wireless flat panel detector(14X17)
7. Additional wireless flat panel detector(10X12)
8. Mobile Grid(14X17) & Grid Case
9. DAP meter
10. Lithium Polymer Battery
11. Battery Charger
12. Operation & Service Manual

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### **D. Remarks :**

#### 1. Installation

- Supplier or contractor should be responsible for installation of this equipment.

#### 2. Warranty

- Supplier or contractor should be responsible for free of charge after - service whatever there is

any defect or any trouble for three years after being accepted by customer

위와 같이 일반 경쟁 입찰을 의뢰합니다.

PS : 입찰 후 최저가 응찰 업체를 낙찰자로 결정함.

사용부서명 : 영상의학과

신청인 성명 :

부서장(확인자) 성명 :

담당자 : 서 보 경

기술부서명 : 관리부 의용공학과

2020. 9. 28

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