

공 통 규 격 서

H.S. NO.	ITEM NO.	Description	Q'ty	UNIT
		Ultrasound System	1	system

A. Feature :

- This ultrasound system provides superior image quality, knowledge-based workflow, adaptive ergonomics and innovative applications to realize diagnostic confidence.
- 65,000 processing channels or less
- Acquisition frame rate : 20,000 f/s or less
- 200dB full time input dynamic range or less
- Aixplorer V11 Package or EPIQ7 Package

B. Specification

1. Main unit

- 21.5" format high resolution Flat panel LCD display monitor or less
- Application
 - 1) BREAST
 - 2) Small Parts

2. Imaging Modes

- 2D grayscale imaging
- 256(8 bits) in 2D, Doppler spectral analysis
- 64(6 bits) in M-mode
- Color Flow Imaging or Adaptive Broadband Flow image
- Super Compound Imaging or Sono CT
- Super Res Imaging or XRES
- Super Harmonic Imaging or THI (Tissue Harmonic Imaging)
- Color Power Imaging(CPI) or Color Power Angio Imaging(CPA)
- Directional Color Power Imaging(dCPI) or more
- Auto TGC or iSCAN intelligent optimization
- Pulsed Wave Doppler
- High Definition Zoom mode
- Reconstruction zoom with pan
- Duplex and simultaneous 2D/ PW Doppler
- Independent Triplex for simultaneous 2D/Color/PW
- Breast Elastography
- Thyroid Elastography

3. Measurements Tool or Measurement Tools and General Description

*** Measurements Tool**

- 2D distance
- Volume (3 Distance)
- Curved Distance (mm or cm) in Panoramic Imaging only
- Ellipse (major axis, minor axis, area, perimeter)
- Trace(area, perimeter)

or

***Measurement Tools and General Description**

- 2D distance
- 2D circumference/ area by ellipse, continuous trace, trace by points
- 2D curved-linear distance
- Manual Doppler distance and trace
- High Q Automatic Doppler Analysis and Auto Doppler
- Doppler values including PI,RI,S/D indices
- 2-D volume

4. Color Flow Imaging or Adaptive Broadband Flow Image

- Automatically adapts transmit and receive bandwidth processing based on color box position providing optimal sensitivity and color resolution
- Cineloop review with full playback control
- Trackball controlled color region of interest, size and position and Touch Ring control

5. Pulse Wave Doppler or less

*** Pulse Wave Doppler**

- Display annotations including Doppler mode, scale(cm/sec) Nyquist limit, wall filter setting, gain, acoustic output status, sample volume size, normal/inverted, angle correction, grayscale curve
 - Angle correction with automatic velocity scale adjustment
- or

*** Spectrum Doppler**

- Doppler mode : PWD (pulsed wave doppler), HPRF PWD
- CWD (continuous wave doppler)

6 Super Harmonic Imaging or Tissue Harmonic Imaging

- Patented pulse inversion phase cancellation technology
- System processing of second harmonic frequencies in Tissue

7 Super Compounding Imaging or Sono CT

- Patented pulse inversion phase cancellation technology
- System processing of second harmonic frequencies in Tissue
- Vascular Enhancement

8 Color Power Imaging(CPI) or Color Power Angio Imaging(CPA)

- High sensitive mode for small vessel visualization
- 9 Trapezoid View or WideSCAN**
- * Trapezoid View
 - This technology provides linear transducer detail resolution in a convex field of view
 - Virtual Convex makes exams faster and easier by providing up to 20% more clinical information
 - Increase the field of view
- or
- WideSCAN
- 10 Auto TGC or iSCAN intelligent optimization**
- * Auto TGC
 - One-touch image optimization 2D
 - Adaptive Gain Compensation (AGC)
 - Take care of ambient light
 - Adjust brightness, Contrast, Gain
- or
- iSCAN intelligent optimization
- 11. SuperRes Imaging or XRES**
- * SuperRes Imaging
 - Available on all transducers
 - Operation in conjunction with Super Compounding imaging
 - Reduces speckle, improves image texture and enhances borders without an impact on frame rate
- or
- XRES
- 12. Realtime 3D SWE S/W Package or Freehand4D and MPR Imaging Package**
- 13. Sharewave Elastography (color, m/s, kPa FDA approval)**
- Breast
 - Thyroid
- 14. AIXPLORER V11 Package or EPIQ7 Package**
- 15. DATA Management or more**
- On-board workstation-class data management with thumbnail previews and storage of images, loops, and reports
 - Three internal hard drives separate system file, patient data storage and spooling data
 - Reprospective and prospective clip capture to internal drive or removable media
 - Integrated DVD/CD burning capability for storage of DICOM images or export in JPEG and mpeg4 for PC compatibility
 - DICOM 3.0 Print and Store capability to internal drive or DVD/CD
 - Selectable compression for jpg and DICOM loop transfer

- Support for transfer of exam report measurement data via USB
 - Connection to various third party database programs
16. DICOM3.0 or DICOM
- Standard connectivity features
 - 1) DICOM Print
 - 2) Image and Waveform export to removable media(DVD/CD)
 - 3) Export of report data to off-line analysis computer programs
 - 4) 100 base-T Ethernet output or more
 - NetLink Connectivity Option
 - 1) Image and waveform export to network storage servers
 - 2) DICOM Worklist with RIS support and automatic patient demographic entry
 - 3) DICOM Modality Performed Procedure Step(MPPS)
 - 4) Storage Commit(SC)
 - 5) Structured Reporting(SR) includes OB/GYN and vascular
 - DVD/CD
 - 1) The system supports standards DVD and CD media, and allows the following capabilities:
 - 2) Data storage formats include DICOM, JPEG and MPEG4 for cine-clips
 - 3) User selectable compression is available for motion clip storage
 - 4) JPEG images and MPEG4 cine-clips can be recalled on off-line viewing stations
 - On-board Patient Exam Storage
 - 1) Direct digital storage of B/W and color loops to internal hard Disk drives
 - 2) Combined 250GB storage capacity or more
 - 3) Storage capacity of approximately 350 patient exam or more
17. PPL Quantification with Lap top or Shear wave elastography(ElastoPQ) with Lap top
- HDD : 256GB or more
 - RAM : 4GB or more
 - Model : MacBoook or MacPro or iMac
18. "TRI VIEW" Radiology clinical option package or ABUS
19. Panoramic Imaging package or more
20. Angioplus Imaging package or more

C. Consist of :

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|--|-----|
| 1. Main unit | 1ea |
| 2. Imaging Modes | 1ea |
| 3. Measurements Tool or Measurement function | 1ea |

4. Color Flow Imaging or QLAB-MVI	1ea
5. Pulse Wave Doppler or less	1ea
6. Super Harmonic Imaging orTHI (Tissue Harmonic Imaging)	1ea
7. Super Compounding Imaging or Sono CT	1ea
8. Color Power Imaging(CPI) or Color Power Angio Imaging(CPA)	1ea
9. Trapezoid View or WideSCAN	1ea
10. Auto TGC or I Scan intelligent optimization	1ea
11. SuperRes Imaging or XRES	1ea
12. Realtime 3D SWE S/W Package or Freehand4D and MPR Imaging Package	1ea
13. Sharewave Elastography (color, m/s, kPa FDA approval)	1ea
– Breast	
– Thyroid	
14. AIXPLOER V11 Pckage or EPIQ7 Package	1ea
15. DATA Management or more	1ea
16. DICOM3.0 or DICOM	1ea
17. PPL Quantification with Lap top or Shear wave elastography(ElastoPQ)	1ea
18. "TRI VIEW" Radiology Clinical Option Package or ABUS	1ea
19. Panoramic Imaging package or more	1ea
20. Angioplus Imaging package or more	1ea
21. SL15-4 Super Linear Array Transducer or L12-5 included Shearwave Elastography FDA approval	1ea
22. SLV16-5 Super Linear Volumetric Transducer or VL13-5 included Shearwave Elastography FDA approval	1ea
23. Operation Manual	1ea

D. REMARKS

1. Three years after installation and correct operation.
2. Installation & operation will be provided by the factory trained engineer free of charge.

위와 같이 일반 경쟁 입찰을 의뢰합니다.

PS : 입찰 후 최저가 응찰 업체를 낙찰자로 결정함.

2017. 4. 27

사용부서명 : 영상의학과

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