Commodity Description

H.S.K No.	Item N	DESCRIPTION	Q'ty
9018 12.000		Ultrasound Sound System	1 Systems

A . Features

The system designed for abdomial, Vascular, obstetric, gynecology,

neonatal, pediatric, urology, transcranial and small parts applications.

Exclusive architecture enable confident diagnosis, comprehensive tools and concise workflow.

With access to raw image data. Users are able to compensate for variations in image acquisition by virtually rescanning the patient after they have left the exam room.

The system shall support the following DICOM3.0 service classes.

B . CONSTITUTIONS

1 . Basic Console System or more — 1 SET

1) cSound™ Architecture
2) 23.8" Wide screen High-Resolution HDU display or 23"LED
3) 12.1" High resolution, Color, Touch LCD Screen
4) 4 Active Probe Ports
5) Digital TGC
6) One-handed adjustment of operator panel(with sealed QWERTY keyboard) position and height
7) Integrated 1TB SSD
8) Integrated DVD-R drive
9) Integrated multiple USB port
10) Integrated speakers with sub-woofer for premium sound
11) Integrated Gel warmer
12) 1GB CINE Memory
13) Export JPEG, WMV(MPEG4), and AVI form

2 . Operating Mode or more — 1 Set

1) B-mode
2) M-mode
3) Color Flow Mode
4) MVI (Micro Vascular Imaging)
5) B Flow
6) Extended Field of View
7) Power Doppler Imaging
8) PW Doppler
9) CW Doppler
10) Volume Modes
11) Anatomical M-mode
12) Coded Harmonic Imaging
13) Coded Contrast Imaging
14) Strain elastography
15) Shear wave elastography
16) UGAP

3 . CrossXBeam or ApliPure — 1 Set

1) Provide spatial compounding and 3,5,7 or 9 angle of spatial compounding
   Live side by side Display
2) Compatible with SRI-HD, Coded Harmonic Imaging.

4 . Speckle Reduction Imaging (SRI-HD) or Precision — 1 Set

1) Speckle Reduction Imaging
2) Provide multiple levels of speckle reduction
3) Compatible with Side by Side DualView Display
4) Compatible with all linear, convex, and sector transducers
5) Compatible with B-Mode, Color, Contrast Agent and 3D/4D imaging

5 . **Raw Data Analysis** 1 Set

1) Complete image flexibility allows stored image optimization and measurements such as B-mode, Doppler mode and Anatomical M mode or Provides for Voice control of scanner

5 . **Coded Harmonic Imaging (CHI)** 1 Set

1) Enhances near-field resolution for improved small parts imaging as well as far-field penetration compared with typical harmonic imaging

7 . **Automatic Optimization (AO) or more** 1 Set

1) Optimize B-Mode image to help improve contrast resolution
   Selectable amount of contrast resolution improvement (low, medium, high)
2) CTO (Continuous Tissue Optimization), CATO (Continuous Automated Tissue Optimization) – continuously adjusts B-Mode axial and lateral gain uniformity and overall gain level suppressing the noise
3) Auto-spectral optimize – adjusts baseline, invert, PRF (on live image), and angle correction

8 . **Auto CF/PW Positioning Feature or more** 1 Set

1) Vessel recognition for automated ROI placement and steering

9 . **Anatomical M-Mode** 1 Set

1) M-mode cursor can be adjusted at any plane
2) Curved anatomical M-mode free (curved) drawing of M-mode generated from the cursor independent from axial plane

10 . **Advanced 3D or Smart 3D** 1 Set

1) Acquisition of Color data
2) Automatic rendering
3) 3D Landscape technology
4) 3D Movie

11 . **Virtual Convex or Trapezoid Scan** 1 Set

1) This technology provides linear transducer detail resolution in a convex field of view.
2) Virtual Convex makes exams faster and easier by providing up to 20% more clinical information.

12 . **Measurements & Calculations Package** 1 Set

1) Real-time Doppler Auto Measurements / Calculations
2) OB Measurements / Calculations
3) GYN Measurements / Calculation
4) Vascular Measurements / Calculations
5) Urological Calcs

13 . **DICOM 3.0 Connectivity** 1 Set

1) Supporting DICOM service classes
   a. Verify (SCU/SCP)
   b. Print (SCU)
   c. Store (SCU)
   d. Basic Modality Worklist (SCU)

14 . **LOGIQ View or Panoramic View** 1 Set

1) Provides expansive anatomical views
2) Enabled on all General Imaging transducers with Harmonic Imaging
3) Standard caliper measurement& body marker function is available
4) Display tools include zoom, pan and rotate
5) Capable up to field-of-view of 160cm

15 . **B-Flow or ADF** 1 Set

1) This feature provides the high resolution and high frame rate of B-mode imaging with the ability to detect and display real-time homodynamic simultaneously, not overlay color flow image.
2) Accumulation mode and period

16 . **MVI (Micro Vascular Imaging) or SMI** 1 Set

1) This feature provides the high resolution and high frame rate of power doppler mode imaging with the ability to detect micro vessel
2) Accumulation mode and period

17 . **Radiant flow or more** 1 Set
1) Easy, fast visualization of tiny vessels, displaying as a 3D effect

18 . **Auto IMT** 1 Set
1) Auto IMT is an ultrasound software tool developed to measure thickness of the intima-media layers of the carotid artery, for assessing an asymptomatic patient's risk developing cardiovascular disease.

19 . **Shearwave Elastography** 1 Set
1) Enabling non-invasive 2D quantitative assessment of tissue stiffness, this tool can be of particular value in evaluating soft tissue conditions.
2) Available on Linear & Convex Probe
3) User programmable measurement display in kPa and meters per sec
4) Single and Dual view display

20 . **UGAP (Ultrasound Guided Attenuation Parameter) or Liver pkg.** 1 Set
1) Measures liver attenuation* (attenuation coefficient [dB/cm/MHz]) by auto measure algorithm with reference B-mode
2) Simple and 2D color map (attenuation color map and Measurement Position Indicator Map)

21 . **Hepatic Assistant or Liver pkg.** 1 Set
1) Integrates two functions of Shearwave Elastography and UGAP to be run simultaneously on one screen.
2) Provide both measurement result of Shearwave Elastography and UGAP to easily diagnose Liver Steatosis and Fibrosis.

22 . **C1-6-D XDclear Convex Probe or PVI-475BX** 1 Set
1) Applications: Abdomen, OB/GYN, Pediatric, Peripheral Vascular, MSK
2) Frequency(MHz): 1-6

23 . **L2-9-D Linear Probe or PLI-705BX** 1 Set
1) Applications: Small Parts, Vascular, Pediatric, Abdomen, MSK, Neonatal
2) Frequency(MHz): 2-9

24 . **ML4-20-D Matrix Array Linear Probe or PLI-1205BX** 1 Set
1) Applications: Small Parts, Vascular, Pediatrics, Neonatal
2) Frequency(MHz): 3-16

25 . **C3-10-D XDclear Micro convex Probe or PVT-712B** 1 Set
1) Applications: Neonatal, Pediatrics, Vascular
2) Frequency(MHz): 2-11

26 . **Built IN Gel Warmer or more** 1 Set
27 . **O/S Manual or more** 1 Set

C . Remarks

Installation
Contractor is responsible for installation of this equipment at customer's premise.
Warranty Conditions
Contractor or Supplier should be responsible free of charge after service(A/S) whenever there is any defect or trouble during 3 years after the equipment is officially accepted by end-user.
Supplier should provide software upgrade service for free through GE FMI.
Supplier should provide quaterly PM (preventive maintenance) during the period of warranty.

* 위와 같이 일반 경쟁 입찰을 의뢰합니다.

PS. 입찰 후 최저가 응찰 업체를 낙찰자로 결정함.

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