

購買（英文）規格書

COMMODITY DESCRIPTION

關稅分類番號 H.S. NO.	品目番號 ITEM NO.	品目 및 規格 DESCRIPTION	單位 UNIT	數量 QUANTITY
		초음파영상진단기	set	1

A. Feature:

1. This leadership ultrasound imaging system designed for abdominal, Vascular, obstetrics, gynecology, neonatal, pediatric, urology, transcranial and small parts applications.
2. The system shall support the following DICOM 3.0 service classes.

B. Specifications:

1. System Architecture
 - 1) 23.8" High Definition Ultrasound (HDU) monitor or more
 - 2) 12" High Resolution color LCD touch screen or more
 - 3) Floating User interface
 - 4) Electrical Height Adjustment
 - 5) Integrated 1TB HDD hard drive or more
 - 6) Integrated DVD+R(W)/CD-R(W) drive
 - 7) Integrated multiple USB port
 - 8) 4 Active and Imaging Probe Ports
 - 9) Probe port illumination
 - 10)Export to: DVD+R(W), CD-R(W), Network, USB devices
 - 11)Export image types: BMP, TIFF, JPEG, MP4, AVI, VOL, 4DV, DCM, Cartesian, STL, OBJ, PLY, 3MF, XYZ
2. B-mode with Shadow Reduction
 - Enhanced B-mode imaging with Shadow Reduction to help scan of difficult patients cases.
3. Automatic Tissue Optimization (ATO) or iSCAN
 - ATO is an optimization tool specific to the image displayed.
4. HD-Flow or High Q Automatic Doppler analysis (HQAD)

- Technology that combines the sensitivity of Power Doppler with directional flow information.

5. Radiantflow

- Advanced algorithms add height & depth information to color Doppler signals, to provide a 3D-like appearance. These algorithms combined with system wide Color Doppler improvements provide:
 - 1) Dynamic perception of laminar blood flow patterns
 - 2) Enhanced definition of vessel borders with separation of vessels
 - 3) Less flash and enhanced vessel boundaries, delivering easy, fast depiction of even the tiniest of vessels

6. SlowflowHD & Slowflow3D

- Tool that expands range of visible blood flow, including low velocities to visualize blood perfusion in very small vessels. Great for capillary vascularization, it also provides 3D visualization.

7. B-Flow or Color Power Angio Imaging (CPA)

- Doppler is proving to be a clinically valuable adjunct to the standard duplex ultrasound examination for carotid artery atherosclerotic disease. This tool provides a sensitive, high resolution image of blood flow hemodynamics in real-time.

8. XTD View (Extended View) or Panoramic imaging

- Free-hand acquisition of a panoramic view over a wide region of the body

9. SRI II (Advanced Speckle Reduction Imaging) or XRES

- A real-time algorithm that provides a high level of speckle reduction without the disadvantages typical of spatial filtering. It increases contrast resolution by increasing the signal to noise ratio.

10. CrossXBeam CRI (Compound Resolution Imaging) or SonoCT

- Between three and nine pulses are correlated to one image line.
- Provides enhanced contrast resolution with better tissue

differentiation and clear organ borders.

- Also, vessel walls and tissue layers are emphasized for easier recognition.

11.SonoFHR

- Automatically provide the fetal heart rate.

12.SonoLystLive

- Automatically identifies and labels standard fetal anatomy. Coupled with Scan Assistant, can include measurements for enhanced exam efficiency.

13.SonoGyn

- 1) Fibroid Mapping - Map out position and relationship of fibroids to uterus and endometrium in 3D Classify each fibroid according to FIGO while simplifying communication.
- 2) Uterine Trace - In 3 simple steps, obtain the coronal plane of the uterus.

14.SonoBiometry or aBiometry Assist

- Semi-automated measurements of BPD, HC, AC, FL, helping reduce inter-and-intra observer variability that comes with manual measurements and achieve reliable and reproducible results.

15.SonoNT or Auto measurement NT / IT

- Semi-automatic measurement of nuchal translucency that helps provide reproducibility.

16.SonoIT or Auto measurement NT / IT

- This technology that help provide semi-automatic, standardized measurements of the Intracranial Translucency (4th Ventricle) in the 1st trimester.

17.SonoCNS

- The first intelligent tool for fetal brain based on this machine learning technology. It automatically aligns and displays recommended views and measurements of fetal brain within 18-26 weeks.
- It can help reduce keystrokes when obtaining desired planes and

measurements of the fetal CNS.

18. SonoRenderlive or aReveal

- Helps enhance efficiency in volume rendering with automated placement of the render line for optimized surface rendering. SonoRender Live continuously updates render line placement with fetal movement during 4D examinations.

19. Scan Assistant or SmartExam Protocol

- Customizable tool helping busy departments improve quality assurance, increase exam consistency and increase productivity. Reduces annotation and measurement time with customizable submenus.

20. FFC (Focus and Frequency Composite) or iSCAN

- Utilizes two different transmit frequencies afocal ranges to enhance the 2D image.
- Combines a low frequency (penetration) and high frequency (resolution).

21. Beta-View

- Available on 3D/4D intracavitary and abdominal probes.
- Allow the user to electronically steer the beam in 2D, without moving the probe by using the internal 3D mechanism.

22. Inversion

- Render Mode that inverts and displays the anechoic values of the rendered image and removes the surrounding gray scale information.

23. IOTA (International Ovarian Tumor Analysis) ADNEX Model, LR2, Simple rules

- 3 ovarian tumor risk analysis models validated and approved by IOTA group.
- ADNEX risk model can be used to diagnose ovarian cancer in women who have at least one persistent adnexal (ovarian, para-ovarian, and tubal) tumor and are considered to require surgery.

24. IETA (International Endometrial Tumor Analysis) Protocol & Report

- Systematic evaluation of the endometrium and standardized

reporting for endometrium and uterine cavity based on IETA statement, helping evaluate risk and assign classification of the endometrial lining.

25. IDEA (International Deep Endometriosis Analysis) Protocol & Scan Assistant Guideline

- Helps guide through the protocol for quick and comprehensive evaluation for endometriosis and DIE based on the IDEA group consensus.

26. HDlive Silhouette or Truevue

- 1) HDlive - New rendering method generating amazingly realistic images of fetus from sonographic data to help enhance diagnostic confidence.
- 2) HDlive Silhouette - Helps make a confident volume assessment of 1st trimester anatomy.

27. HDlive Studio+

- Expanding the HDlive suite of technologies with new Perspective Rendering and enhanced silhouette controls for more advanced analysis for enhanced soft tissue differentiation, illumination & skin delineation.

28. HDlive Flow and HDlive Flow Silhouette or Glassvue

- Radiance architecture enables synergy between our proven HDlive technology and color Doppler modes for amazing anatomic realism in 3D/4D Color and Glass Body rendering.

- 1) HDlive Flow - can be shown in the traditional color it was acquired in, or in the new monochromatic color, more realistic anatomical representation of blood flow.

Simultaneous, real-time visualization of vessels at different depths within the volume.

Excellent separation to distinguish vessels apart versus 'flat' appearance of conventional rendering.

- 2) HDlive Flow Silhouette - Visualize vascular structures along with surrounding tissues with various levels of border

enhancement and through transmission.

29.DICOM 3.0 Connectivity

30.3D Print File Export

- 3D print is created by exporting a mesh of the surface. This mesh can then be exported in a variety of formats that 3D printers understand. Export file formats are .stl, .obj, .ply, .3mf, and .xyx.

31.Advanced 4D or 3D/4D Capability

- TUI: Advanced 3D/4D feature that provides a visual display of multiple parallel slices through dataset.

TUI image is comparable to the display of MRI and CT scans consisting of a multiple slices in sequence of a given organ or area.

32.VOCAL II (Volume Calculation)

- Calculation tool that enables volume calculation of eccentrically shaped areas or complex anatomic structures 3D. Area of interest is rotated around a central axis and user performs trace measurements that result in a volume calculation.

33.Advanced VCI (Volume Contrast Imaging) w/ Omniview & Uterine Trace

- Volume Contrast Imaging utilizes 4D transducers to automatically scan multiple adjacent slices and delivers a real-time display of the ROI.

1) Omniview: 3D/4D tool that allows the user to obtain and visualize anatomy along any conceivable plane.

User can visualize non-orthogonal planes by simply placing a line, curve, trace, or polyline on the volume.

2) Uterine Trace: In 3 simple steps, obtain the coronal plane of the uterus. Links directly to Uterine Classification pictograms for easy documentation of uterine shape.

34.Elastography or Elastography pkg

- Elastography helps improve visualization of tissue that may contain of fibroids and define surrounding myometrium - safety

zone for surgery.

It helps evaluate cervical malignancies & cervix during pregnancy & predict pre-term delivery.

35. Advanced STIC (Spatio – Temporal Image Correlation) or STIC imaging

1) Basic STIC: Using the diagnostic normal structure form of fetal heart, STIC helps users understand abnormal case of fetal heart and collect all data of fetal heart with just one acquisition of volume data.

2) STIC M-Mode: M-mode measurement in STIC.

3) STICflow: Angiographic-like display for visualization of fetal cardiovascular system.

4) SonoVCADheart: Semi-automated imaging tool that assists in displaying standard planes of fetal heart.

Displays all the 2D planes, which comply with the recommended standard examination of the fetal heart as outlined by AIUM, ACOG, ACR and ISUOG.

Image library is added so users can compare own image with reference image simultaneously on screen.

36. V-SRI

- New level of speckle reduction utilizing volume/voxels versus traditional single slice imaging.
- It helps improve 3D/4D quality in multiplanar studies and rendered mode, and provides enhanced smoothing on rendered image helps improve diagnostic confidence.

37. Anatomical M-Mode (AMM)

- Helping examine fetal cardiac function, AMM is applied on 2 areas of the fetal heart simultaneously for arrhythmia assessments.

38. fetalHQ (including speckle tracking capabilities) 2.0 or

Fetal Heart Navigator (FHN)

- New innovative this tool assessing strain in fetal heart. It helps conduct an easy and comprehensive evaluation of the size, shape and contractility of the fetal heart from the 4-chamber view using

measurements based on 2D imaging and speckle tracking.

39.fetalHS or Fetal Heart Navigator (FHN)

- Guided workflow to help identify if fetal heart is normal.

40.Flow Profiles

- Predefined and optimized settings for color and pulsed wave imaging with a 3D-like effect to grayscale imaging.

41.Respond

- Streamlined probe activation that automatically initialize probes and presets.

42.Graphicflow or Micro Flow imaging (MFI/MFI HD)

- Provides a graphical representation of the trajectories of the blood cells in real-time to visualize complex blood flow quickly and clearly, helping you to differentiate normal from abnormal hemodynamics.

43.SonoAVC 2.0 or automated staked contours

- 1) SonoAVC™follicle2.0 (Sonography-based Automated Volume Count follicle): Automatically calculates the number, dimensions, and volume of hypoechoic structures in a volume sweep to help monitor patient follicles faster. Incorporation of AI helps improve accuracy in follicle detection.
- 2) SonoAVCantral2.0: More accurately evaluate ovarian reserve and increase success for Assisted Reproductive Medicine treatments.

44.SonoPelvicFloor 3.0

- AI-based feature for consistent and reproducible pelvic floor measurements.
- Automates plane alignment and live C-plane tracking to follow muscle movement during exams.
- Provides automated measurement of levator hiatus (AP, lateral, area/circumference) in three phases (R/V/C).
- Includes anal sphincter segmentation and valsalva detection, with TUI view accessible in three phases.
- This comprehensive package offers users an 80% time saving with

automated measurements.

- 45.C1-6-D XDClear Wide Band 2D Convex Probe or
C9-2 broadband curved array with PureWave crystal technology
 - Applications for Abdomen, OB, GYN, Fetal Cardio
- 46.IC5-9-D Wide Band 2D Transvaginal Probe or
C10-3v broadband curved array with PureWave crystal technology
 - Applications for OB, GYN, Transrectal
- 47.RAB7-D Volume Abdominal Probe or X6-1 broadband xmatrix array
 - Applications for Abdomen, Obstetrics, Gynecology, Pediatrics
- 48.4DView 18 or Tomtech 3D Quantification advanced
 - Post Processing Tool Software
- 49.Respond Probe Holder
- 50.B/W Printer
- 51.Color Printer
- 52.Operating Manual

C. Configurations:

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|---|-------|
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52.Operating Manual	1 set

D. Remarks:

1. The equipment should be installation by contractor.
2. Three years warranty after the installation and correct operation.
3. Manufactured products must be delivered within one year based on the inspection date.
4. Products that are not scheduled to be discontinued within one year after delivery must be delivered.
5. A report must be summited after conducting a preventive inspection in accordance with the hospital medical equipment inspection regulations within the warranty period.
6. 보증기간 제외품목: 소모품, Accessory 및 Vendor Item 은 별도임.