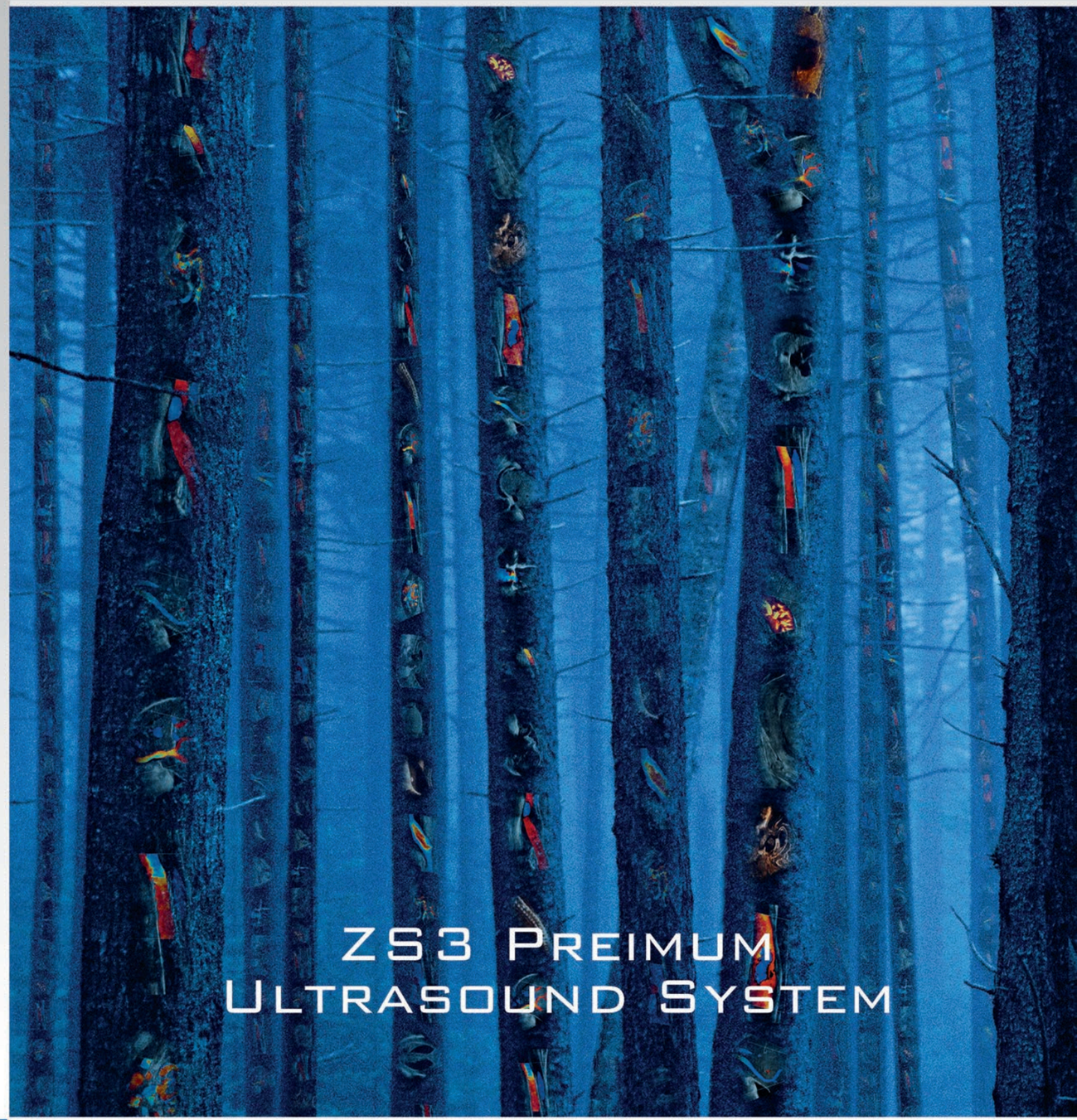
LIVING TECHNOLOGY

ZONARE

| ZS3<br>Premium Ultrasound System | Sonography | Echocardiography |
|---|---|---|
| Outer Dimensions / Weight | 51 (W)* 72 (D)*128 ~157 (H) cm / 66 kg | 51 (W)* 72 (D)*128 ~157 (H) cm / 66 kg |
| Monitor | 19-inch OLED (1280 * 1024 pixel resolution) | 19-inch OLED (1280 * 1024 pixel resolution) |
| Imaging Formats | Convex / Linear / Phased / Micro-Convex / Curved Phased<br>Vector Format / Image Width - User selectable width and positioning | Convex / Linear / Phased / Micro-Convex / Curved Phased<br>Vector Format / Image Width - User selectable width and positioning |
| Image Storage | 500 GB H.D.D internal memory | 500 GB H.D.D internal memory |
| Electrical Capacity | 100 - 240 VAC / 50 - 60 Hz / 180 W - without peripherals | 100 - 240 VAC / 50 - 60 Hz / 180 W - without peripherals |
| Imaging Modes | B-Mode, M-Mode, Auto-Optimize with ZST, Auto IMT<br>Color Doppler, Power Doppler, Directional Power Doppler<br>Pulsed Wave Doppler, Duplex & Triplex, Dual Screen<br>Compound Harmonics, Tissue Harmonic Imaging (THI)<br>Elastography, 3D/4D Imaging, Smart OB/NT<br>Contrast Enhanced Ultrasound | B-Mode, M-Mode, Auto-Optimize with ZST, Auto EF<br>Color Doppler, Power Doppler, Directional Power Doppler<br>Pulsed Wave Doppler, Continuous Wave Doppler,<br>Tissue Doppler Imaging (TDI), Tissue Harmonic Imaging (THI)<br>Compound Harmonics, Contrast Enhanced Ultrasound<br>Duplex & Triplex, Dual Screen, Stress Echo, PED TEE, ICE |
| Connectivity | DICOM, HDMI Connector, USB flash 4 ports, DVD/CD R/W<br>Ethernet, SATA Connection, Wireless capable via optional bridge | DICOM, HDMI Connector, USB flash 4 ports, DVD/CD R/W<br>Ethernet, SATA Connection, Wireless capable via optional bridge |
| System Features Hardware | 4 Transducers Storage (3 Active Transducer Connectors)<br>Hi-fidelity Stereo Speakers, Ergonomic keyboard<br>Compressed Nitrogen Jack | 4 Transducers Storage (3 Active Transducer Connectors)<br>Hi-fidelity Stereo Speakers, Ergonomic keyboard<br>Compressed Nitrogen Jack |
| System Features Software | Fast boot time : less than 30 sec. | Fast boot time : less than 30 sec. |


ARKAN ARA CO.
Tel : 021 81060

ZONARE MEDICAL SYSTEMS INC.
Address : California, USA

# ZS3 PREIMUM ULTRASOUND SYSTEM

At **ZONARE**, we live to make ultrasound better **FOR YOU.**

THROUGH LIVING TECHNOLOGY,
WE'LL GROW WITH YOU INTO THE FUTURE.

# COMPACT & BENEFICIAL

## A New Diagnostic Standard with Premium Performance and Investment Protection.

The premium ZS3 system provides outstanding image quality and excellent return on investment.
The unit has a small footprint and is highly portable in tight areas such as the NICU or at the patient's bedside.
It is based on ZONARE's award winning ZONE Sonography™ Technology (ZST), which is a Living Technology - an architecture that allows for ongoing upgrades.
The ZS3 comes with state-of-the-art guarantee, providing unparalleled investment protection.

## Features and Benefits of ZS3 System's :

- Unsurpassed image quality for a variety of exams
- Unparalleled technical and service support
- DICOM networking
- Triplex with the ability to store and cine review

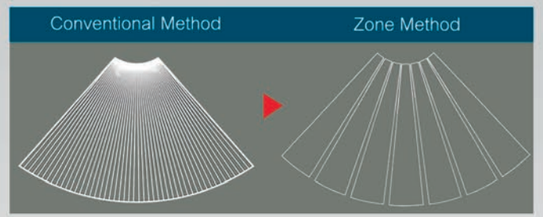

# Redefining ultrasound imaging

## Innovative Technologies Elevate Ultrasound Imaging to a Higher Dimension

"ZS3" is equipped with a "sound speed correction" function based on ZONE Sonography™ Technology, which redefines ultrasound imaging . It offers high-resolution clear imaging as well as automatic & consistently high-quality images.

### Reverse Conversion : ZONE Sonography™ Technology (ZST)

In a general ultrasound system, the sound speed within a patient's body is determined based on physical factors.
Therefore, the thinner the beam becomes, the more time required for data collection, resulting in a constraint on improving image quality ZONE Sonography™ Technology runs counter to this accepted practice of ultrasound imaging. It transmits a broad ultrasound beam to rapidly collect data instantly makes possible a new, advanced image processing environment.

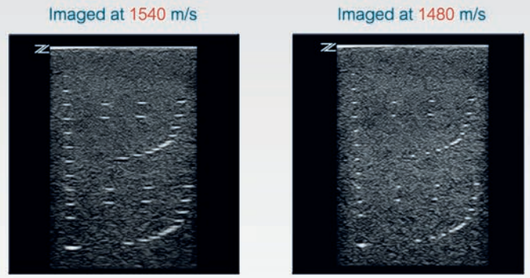


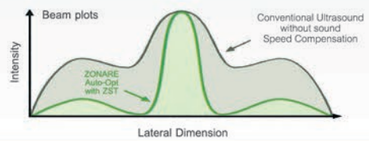

### Advanced Image Processing Using : Channel Domain Processing Software

Software enforced beamforming is now possible. High-quality ultrasound images are realized by advanced image processing of extensive echo data collected by probe element accumulated in the using software

### Improved Image Resolution with Auto - Opt with ZST (Sound Speed Correction)

By using advanced image processing technology, the optimum ultrasonic propagation speed within the patient's body (sound speed) is inferred & images are developed High - quality images can be acquired consistently even during the ultrasound examination of breasts , which can present major difference depending on the individual physical consitution.




What is "sound speed correction"?
The resolution in the lateral dimension deteriorates due to a difference in sound speed. By correcting this & carrying out optimization, the resolution in the lateral dimension is improved.

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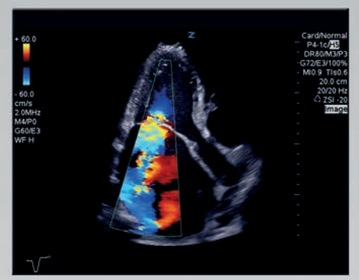
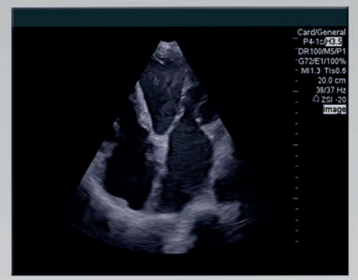
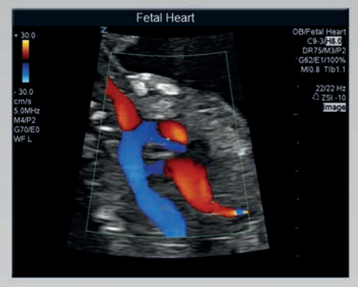
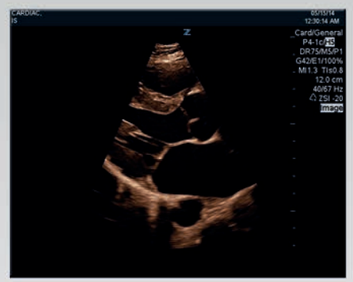
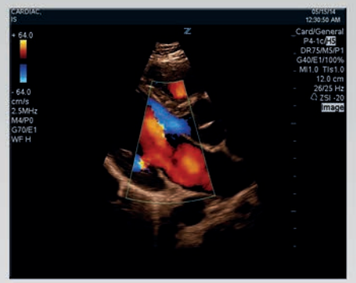
## Image Gallery - Echocardiography

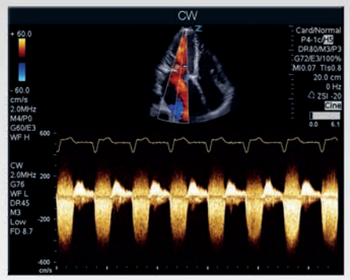


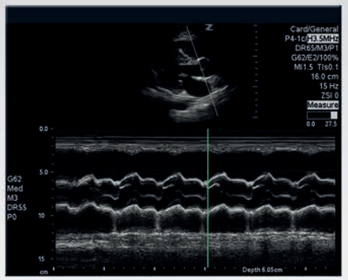


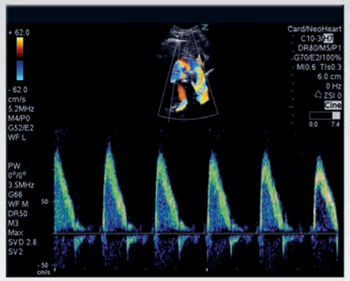


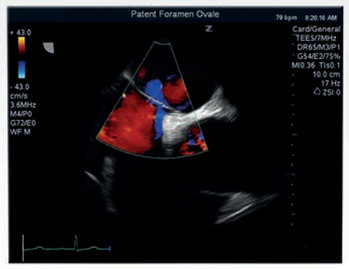



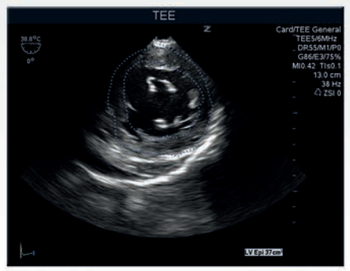




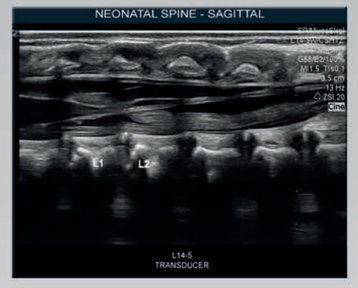





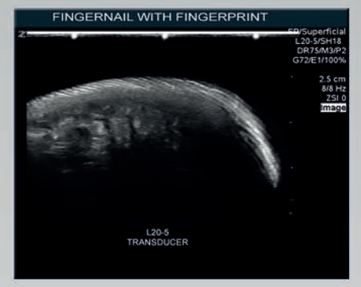



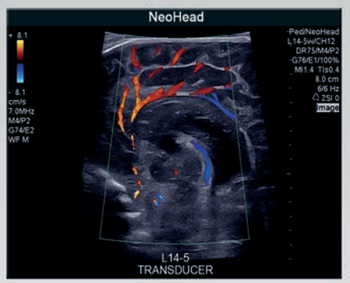



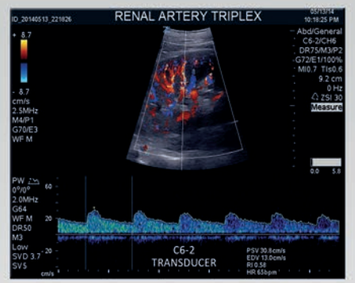

## Image Gallery - Sonography

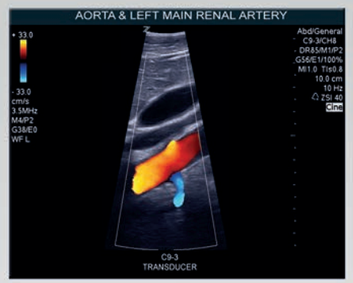


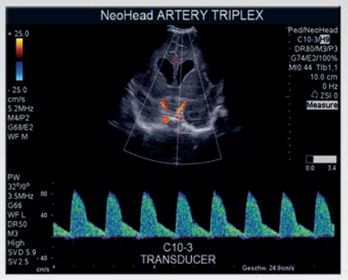


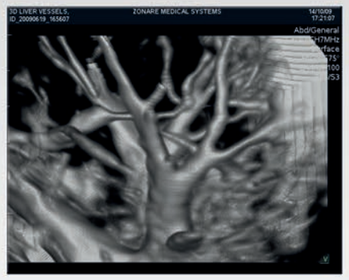


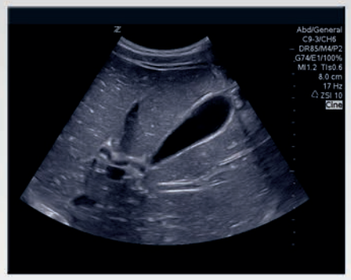



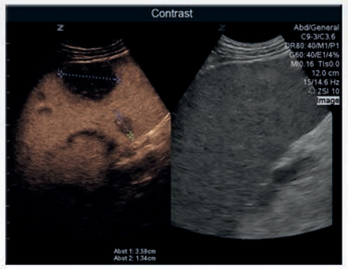



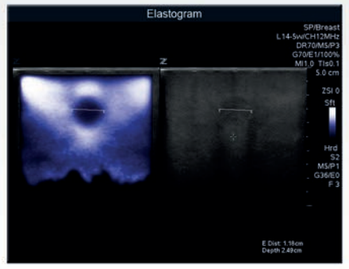



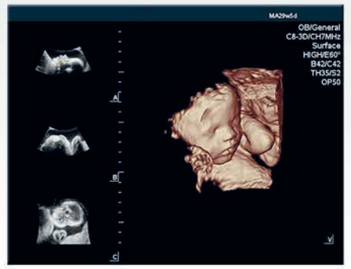







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## Family of transducers

Advanced Transducer Technology from ZONARE - " Available on ZS3 "

The transducers are lightweight and ergonomically designed to offer easier imaging access, increased operator comfort, and greater overall clinical impact across all patient types.

New transducer technology, wide bandwidth imaging, and multiple frequency imaging with an expanded range of frequencies including Compound Harmonics.

These features provide : * Increased sensitivity and resolution
* More clinical information and expanded applications

| | | | | |
|---|---|---|---|---|
|  | **P4-1c Phased Array**<br>Applications : Echocardiography, Transcranial Imaging/Doppler, Trauma (FAST Exams), Deep Abdominal, Abdominal Vascular, Renal, Aorta, Contrast Enhanced Ultrasound (CEUS). | | **C4-1 Curved Array**<br>Applications : Abdominal, Abdominal Vascular, Obstetrics, Fetal Heart, Gynecologic, Trauma(FAST exams), Contrast Enhanced Ultrasound(CEUS), Needle Guide Available. |  |
|  | **C10-3 Curved-Phased Array**<br>Applications: Neonatal Head, Neonatal Abdominal, Pediatric Echo, Pediatric Abdominal, General Cardiology, Ocular. | | **C6-2 Curved Array**<br>Applications : Abdominal, Abdominal Vascular, Obstetrics, Fetal Heart, Gynecologic, Contrast Enhanced Ultrasound (CEUS), Needle Guide Available. |  |
|  | **P8-3TEE Phased Array**<br>Applications : Transesophageal Echocardiography. | | **C9-3 Curved Array**<br>Applications : Obstetrics (all trimesters), Pediatric/Small Adult Abdominal Imaging, Fetal Heart and Peripheral Vascular Imaging, Needle Guide Available. |  |
|  | **A2 Continuous Wave**<br>Applications : Adult, Adolescent Echocardiography. | | **C8-3, 3D Curved Array**<br>Applications : OB/GYN & Abdomen 3D & 4D (static and real-time) Surface Rendering, Multi-Planar Rendering and Tomographic Slice Imaging Mode. |  |
|  | **A5 Continuous Wave**<br>Applications : Peripheral Vascular. | | **E9-4 Endocavity**<br>Applications : Endovaginal and Endorectal, Needle Guide Available. |  |
|  | **L8-3 Linear Array**<br>Applications : Peripheral Vascular, Nerve Blocks, Pediatric Hips, Needle Guide Available. | | **E9-3 Endoccacvity**<br>Applications : Endovaginal and Endorectal, Needle Guide Available. |  |
|  | **L10-5 Linear Array**<br>Applications : Small Parts, Musculoskeletal, Nerve Blocks, Pediatric Hips, Ocular, Superficial Anatomy, Needle Guide Available. | | **E9-3, 3D Endocavity**<br>Applications : Endovaginal including First Trimester OB/GYN (uterus, ovaries), Surface Rendering, Multi-Planar Rendering and Tomographic Slice Imaging Mode. |  |
|  | **L14-5w Linear Array**<br>Applications : Small Parts, Musculoskeletal, Nerve Blocks, Pediatric Hips, Ocular, Superficial Anatomy, Contrast Enhanced Ultrasound (CEUS), Needle Guide Available. | | **L14-5sp Linear Array**<br>Applications : Intraoperative, Neonatal, Infant, Pediatric Patients, Ocular, Needle Guide Available. |  |
|  | **L20-5 Linear Array**<br>Applications : Musculoskeletal, Pediatric, Superficial, Interventional, Testicular, Ocular, Breast, Vascular,& research in advanced applications, Contrast Enhanced Ultrasound (CEUS). | | **C9-3sp Curved Array**<br>Applications : Intraoperative (visceral and vascular), Neonatal, Pediatric, Contrast Enhanced Ultrasound (CEUS). |  |