



SONOACE 9900

SONOACE 9900
The True Multi-specialty Ultrasound

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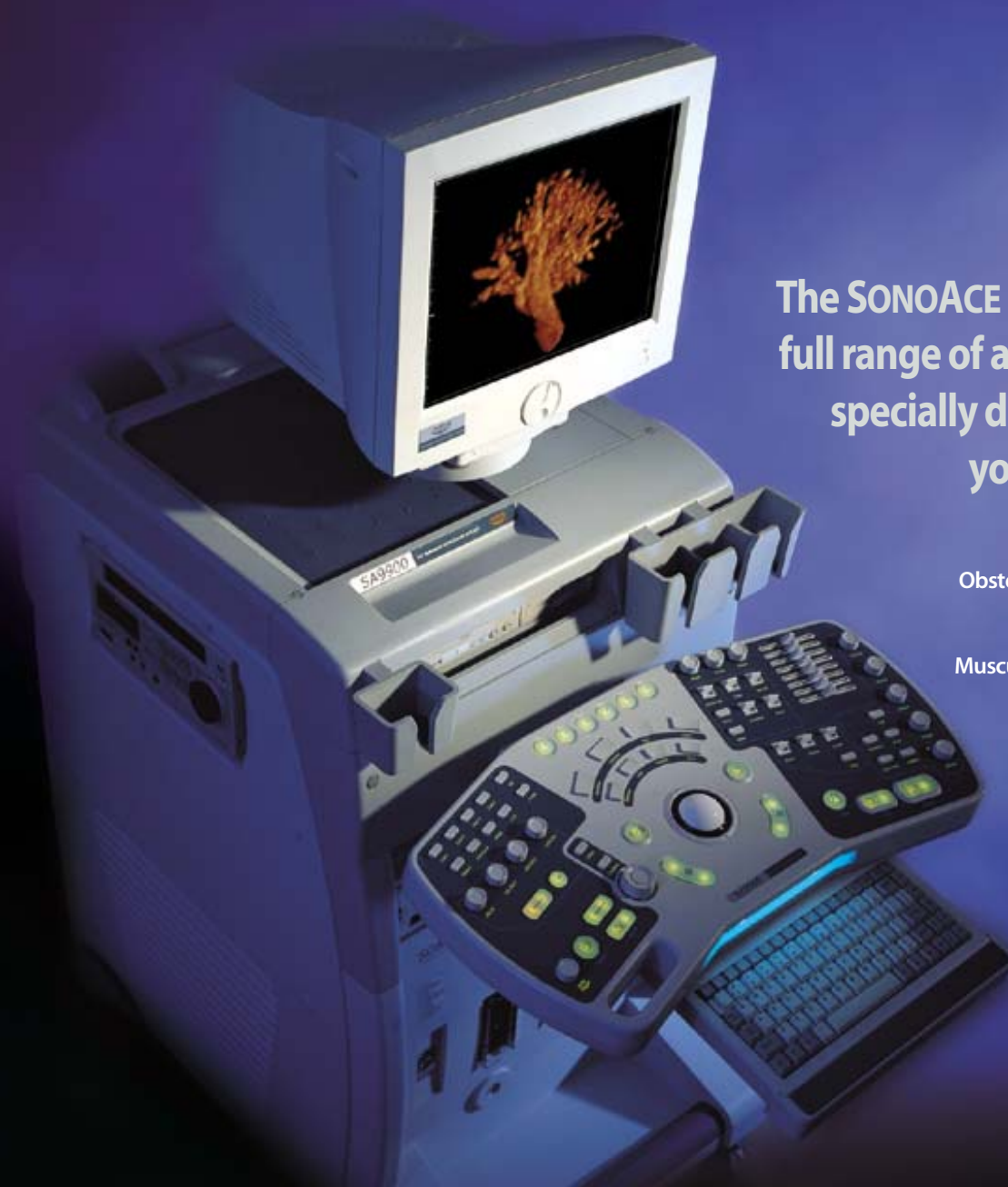
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SONOACE 9900

The True Multi-specialty Ultrasound

The SONOACE 9900 from Medison offers full range of applications specially designed for your practice. Providing crystal-clear B/W and color images with a higher frame rate and versatile new applications based on full range of 3D functions, the SONOACE 9900 demonstrates the value of the future of ultrasound technology.



The SONOACE 9900 offers
full range of applications
specially designed for
your practice.

Radiology
Obstetrics & Gynecology
Cardiology
Musculoskeletal Imaging
Oncology
Urology
Internal Medicine

The True Multi-specialty Ultrasound, SONOACE 9900

The SONOACE 9900 offers premium values that include superior 2D & 3D image quality, powerful Doppler sensitivity, advanced 3D capabilities and special cardiac functions. With the SONOACE 9900, you can realize the true benefits of advanced ultrasound imaging today.



Advanced 2D & Color Image Quality

The SONOACE 9900 offers exceptional B/W image clarity by newly developed FINE™ Filter technology, which contributes to edge enhancement and average filtering in real-time. OSIO™ (Organ Specified Image Optimization) sets the best diagnosis environment with minimum manual operation and increases patient throughput. Also, color images are improved with better color Doppler performance, high color sensitivity, fine pixel image, and reduced flash artifact across all probes.

*FINE™ Filter

FINE™ Filter technology provides excellent clear 2D images by accepting two filtering methods: edge enhancement and noise reduction filtering. FINE™ Filter is applied in real-time for better image resolution.



Hepatic veins are better visualized with edge enhancement
*FINE Filter (Filtered Image for Noise reduction and Edge enhancement)

*CAFE™ Plus

CAFE™ Plus eliminates noise that occurs from flash artifact and delivers clear color Doppler image by mode-specific nonlinear filtering.



Hepatic Vein with CAFE™ Plus
*CAFE™ (Compound Artifact Flash Elimination)

■ OSIO™

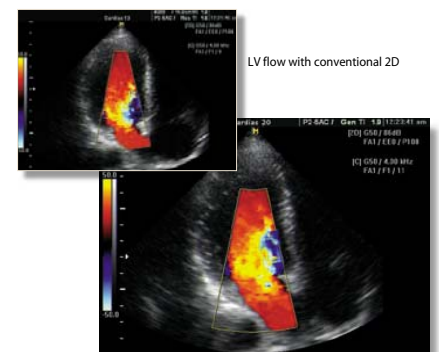
Organ Specified Image Optimization combines various manual operation procedures by simple automatic optimizing function with enhancement of productivity. Pattern recognition technology recognizes each specific organ and applies optimum parameter for accurate diagnosis in obstetrics and abdomen imaging.



Fetus kidney by OSIO™

■ Multi-beam

Multi-beam processing provides excellent clear image with a fast frame rate even in moving organs as it transmits and receives four sound pulses at a time.



LV flow with multi-beam 2D

Live 3D™ Imaging

The clinical applications of Live 3D are myriad and run the gamut from obstetrics and gynecology to interventional applications. This includes enhanced maternal fetal bonding and improved assessment for fetus at risk for specific anomalies especially in confirming normalcy of the fetus. Live 3D also offers accurate 3D biopsy, especially in breast scanning. Live 3D on SONOACE 9900 performs innovative 3D motion of the moving fetus and organs by dramatically improved 3D volume data acquisition and rendering speed.

Extended 3D Applications

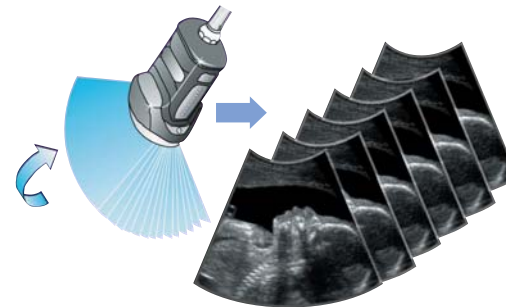
The SONOACE 9900 expands the clinical diagnosis in 3-dimensional view with the true volume data added.

Live 3D™ imaging available on abdominal, linear, and transvaginal 3D volume probes provides clinical utilities to obstetrics and radiological applications by quick reconstruction of volume data.

The world's only software – VOCAL™ (automatic volume measurement), Shell™ Imaging – will enhance clinical value by providing accurate volume calculation and analysis of the extent of vascularization.

■ Volume 3D Probe

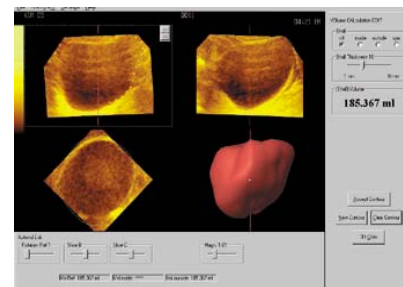
An accurate 3D volume image is realized by the world's only volume 3D probe from Medison. Elements of the probe slice the mass in volume to set precise 3 dimensional data. Particularly, the transvaginal 3D volume probe overcomes the limited acoustic window of 2D transvaginal sonography and enables more accurate measurement of fetal Nuchal Translucency(NT), and better delineation of the entire anatomic structure of the uterus than conventional 2D transvaginal sonography.



Fetal face

■ *VOCAL™

VOCAL™ is software designed for automatic volume measurement that automatically detects the contour of structures such as prostate, cysts and lesions, as well as calculating their volume. VOCAL™ gives the exact volume measurement of masses even in an asymmetric structure.

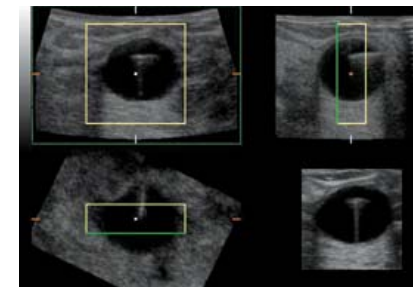


Volume Measurement of Cystadenoma by VOCAL™
*VOCAL™ (Virtual Organ Computer Aided analysis™)

■ Multiplanar View

SONOACE 9900 displays volume data in 3 orthogonal planes: sagittal, transverse and coronal views.

The multiplanar views give morphologic and multi-sectional information on interventional applications for better and more accurate diagnosis.



Breast biopsy

Special Cardiac Functions

The SONOACE 9900 supports shared service applications with special cardiac functions. The system provides Pulse Inversion Harmonics and contrast harmonic imaging that delivers enhanced resolution in cardiac imaging. Fully integrated, on-board digital stress echo capabilities and new MPTEE probe increase the effectiveness of the procedures and reduce the need to repeat operation. The system also offers ECG trigger mode, high sensitivity color Doppler mode, and cardiac software package that attributes to full cardiac applications.

■ Pulse Inversion Harmonics

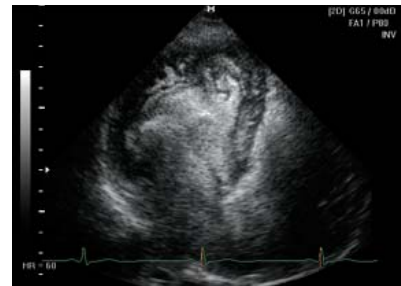
Pulse Inversion Harmonics provides reinforced pure harmonic image. It works by sending an ultrasound pulse into the body, then digitally storing the received fundamental signal as well as harmonic signal. Simultaneously, a pulse that is the inversion of the original fundamental signal is sent into the body and repeats digitally storing both inverse fundamental and harmonic signal. Finally, these two pulses are summed so that the fundamental signals are cancelled and the pure harmonic signals combine to provide exceptionally high spatial resolution. Pulse Inversion Harmonics allows confident assessment of cardiac imaging.



Parasternal long axis view

■ Contrast Harmonic Imaging

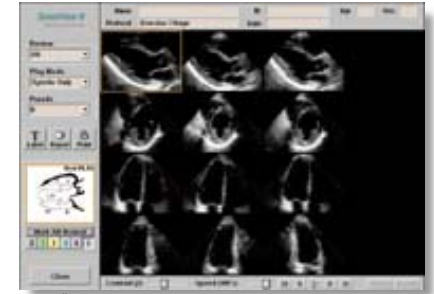
Contrast harmonic imaging improves the clinical image maximizing visualization of contrast agents and avoids additional different imaging techniques.



Contrast agent image

■ Digital Stress Echocardiography

Digital stress echocardiography is fully integrated on the SONOACE 9900. The system provides digital image quality, user-definable protocols and digital image archiving that offers the physician direct control over the diagnostic procedure and his patient.



3 stage all view

■ Multi-plane TEE probe

Phased array multi-plane TEE probe performs 4.0-7.0 MHz exceptional clear 2D imaging. Newly designed smaller tip array rotated 0 to 180 degree, smooth and round-shaped probe makes intubation easier, allowing greater patient comfort. The multi-plane TEE probe combines triple frequency image, steered CW/PW, 2D harmonic image and Pulse Inversion Harmonics.



Ultrasound with No Boundaries

Digital Connectivity

The SONACE9900 supports digital connectivity environment by digital storage and exporting clinical information through DICOM 3.0 network. Digital image management software SonoView II™ and SonoView Pro™, available on SONACE9900 and personal computer respectively, enable remote diagnosis anywhere, anytime.

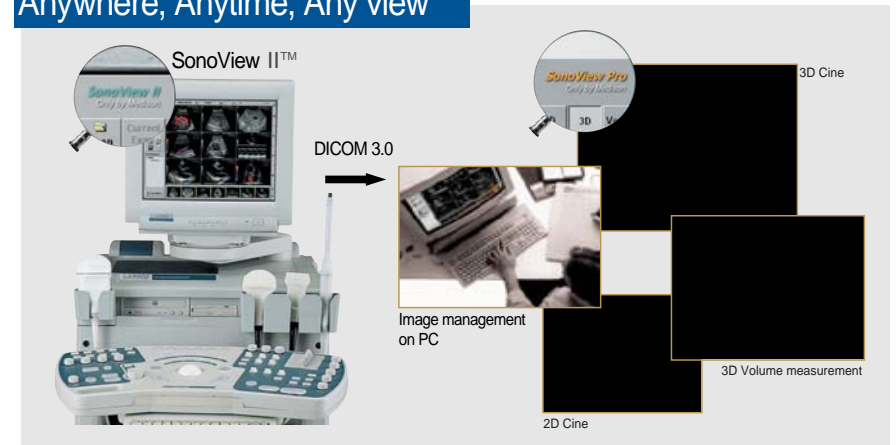
■ SonoView II™

SonoView II™, optional software for digital image management on ultrasound system, stores and transfers ultrasound image without any loss of image quality. Easier management of patient images results in cost savings and an increase of patient throughput.

■ SonoView Pro™

SonoView Pro™ is software for PC that enables to view and even to measure 3D images as well as 2D images in remote area improving clinical workflow.

Anywhere, Anytime, Any view



SonoView II™

- Digital image archiving
- Preview of archived images
- Image export/backup
- Image filing hotkey
- Voice recording

SonoView Pro™

- Image sending, receiving and printing via DICOM network
- Ultrasound image review and measuring of 2D, Cine and 3D volume data
- Measuring tools (Distance and ellips available)
- Voice annotation
- Direct e-mail sending function with image attachment
- Advanced 3D functions: VOCALShell™ Imaging





The Proof is in the Imaging

The SONOACE 9900 optional probes provide exceptional imaging performance in all applications. Advanced technology of automatic 3D volume reconstructing and expanded functional bandwidth delivers increased amount of clinical information and qualified diagnosis.



C2-5IR
BPC-C2-5IR



C3-7IM
BP-KIT-005



L4-7EV



L5-12IR
BP-KIT-004



L5-9ER
BPL-L5-9ER



L8-15EV



EC4-9ES
BP-KIT-003



MPT4-7AL

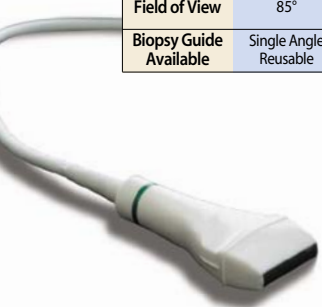


P2-3AC



P2-5AC

| Array Type | Curved Linear | Phased | Curved Linear | Linear | Linear | Curved Linear | Linear | Curved Linear / 3D | Linear | Linear / 3D | Linear | Curved Linear EC/3D | Curved Linear EC | Curved Linear / 3D | Phased | CW | Phased | CW | Phased |
|------------------------|--|---------------------------------------|--|-------------------------------|--|-------------------------------|--|---|--|--|--|----------------------------------|----------------------------------|--------------------|------------------|--------------------|---|--------------------|---|
| Applications | General, Abdomen, OB, Gynecology, Renal, Fetal Heart | General, Pediatric, Cardiac, Neonatal | General, Abdomen, OB, Gynecology, Renal, Fetal Heart | General, Abdomen, Small parts | General, Vascular, Small parts, Breast | General, Abdomen, Small parts | General, Vascular, Small parts, Breast | General, First trimester, Abdomen, OB, Gynecology, Renal, Fetal Heart | General, Vascular, Small parts, Breast | General, Vascular, Small parts, Breast | General, Vascular, Small parts, Breast | General, OB, Gynecology, Urology | General, OB, Gynecology, Urology | General, Neonatal | General, Cardiac | Pediatric, Cardiac | General, Abdomen, Pediatric, Cardiac, TCD | Pediatric, Cardiac | General, Abdomen, Pediatric, Cardiac, TCD, Contrast Agent |
| Frequency Range(MHz) | 2.0 - 5.0 | 3.0 - 7.0 | 3.0 - 5.0 | 5.0 - 9.0 | 4.0 - 7.0 | 4.0 - 8.0 | 5.0 - 12.0 | 4.0 - 7.0 | 5.0 - 9.0 | 6.0 - 12 | 8.0 - 15 | 5.0 - 8.0 | 4.0 - 9.0 | 5.0 - 8.0 | 4.0 - 7.0 | 2.0 | 2.0 - 3.0 | 4.0 | 2.0 - 5.0 |
| Radius of Curvature | 40mm | Flat | 50mm | Flat | Flat | 40mm | Flat | 40mm | Flat | Flat | Flat | 10mm | 10mm | 10mm | Flat | Flat | Flat | Flat | Flat |
| Field of View | 85° | 14mm | 77° | 10mm | 40mm | 64° | 40mm | 69° | 50mm | 40mm | 26mm | 128° | 150° | 128° | 10mm | | 19mm | | 19mm |
| Biopsy Guide Available | Single Angle Reusable | | Single Angle Reusable | | | | Single Angle Reusable | Single Angle Reusable | Single Angle Reusable | Single Angle Reusable | | Single Angle Reusable | | | | | | | |



P3-7AC



LI5-9EV



CL4-8EV



VA4-7

BPC-VAW-3-5



VN6-12

BPL-VNW5-10

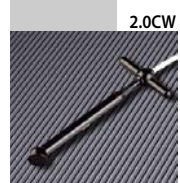


VD5-8

BPC-VDW5-8



VN5-8



2.0CW



4.0CW

SONOACE 9900 Image Gallery

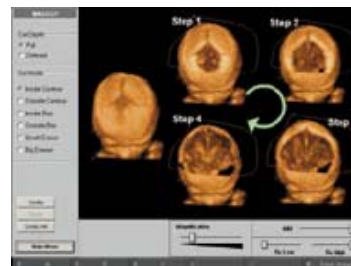
OB/GYN



Fetal Profile



Fetal Kidney

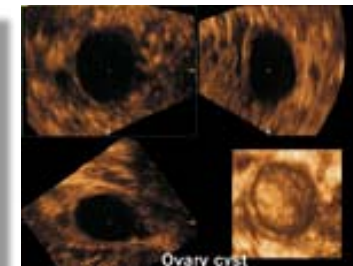


Anterior fontalle by *MagiCut* Plus

MagiCut Plus is electronic editing software that removes unwanted portion of the image and also removes the image slice tomographically



Umbilical cord by color Doppler



3D Surface Image of ovary cyst

Radiology



Liver Metastasis



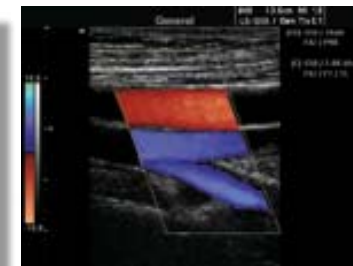
Kidney by color Doppler



Renal vasculature by 3D power Doppler

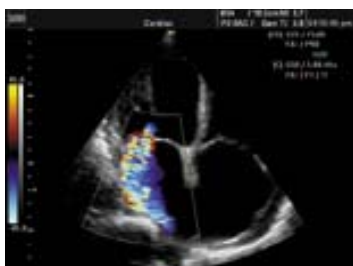


Thyroid gland in trapezoidal image display

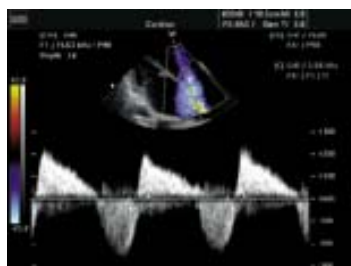


Carotid bifurcation

Cardiology



Mitral regurgitation



Tricuspid regurgitation



Contrast agent image



Pleural Effusion



Hypertrophic cardiomyopathy