



**ECUBE 9** SERIES  
Continuous Innovation - Superior and Reliable



# We maximize customer values with E-CUBE principles



- E**xtrême Clarity
- E**fficient Workflow
- E**rgonomic Design

The ALPINION E-CUBE Series continues to evolve through unique and reliable technological breakthroughs.

The E-CUBE 9 Series integrates ALPINION's core imaging technologies to provide **uniform and fundamentally excellent image quality** across the whole product lifetime.

E-CUBE 9 Standard



E-CUBE 9 Professional



E-CUBE 9 DIAMOND



The outstanding quality of E-CUBE 9 Series results from **a refined acoustic technology** with great delicacy that manages and handles ultrasound signals perfectly.

The ALPINION's **unique and flexible imaging platform, Flexcan™ Architecture**, enhances system stability and helps to maintain system performance to the latest software version. The reliable imaging platform guarantees uniform image quality.

The unique imaging platform and proprietary acoustic technology of E-CUBE 9 Series delivers **uniform image quality and crystal clear image performance** to clinicians.

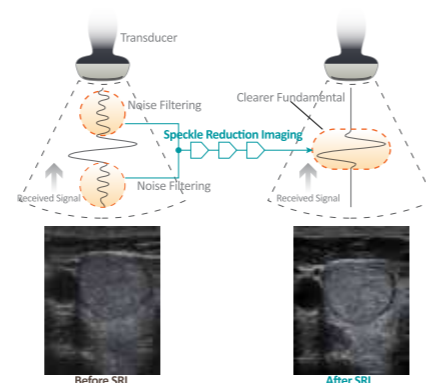


# The evolution of ALPINION's core imaging technology

ALPINION's innovative imaging platform (Flexcan™ Architecture) and sophisticated image processing technology set (Optimal Imaging Suite™) provide a consistent and high-quality image performance that is ideally suited to a dynamically changing work environment.

## Flexcan™ Architecture

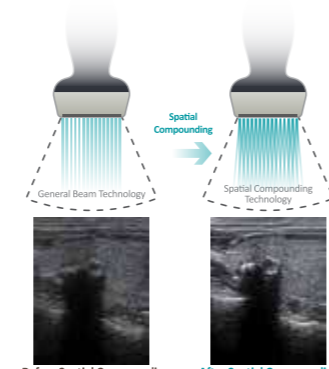
The ALPINION's unique ultrasound imaging platform (Flexcan™ Architecture) is a software driven structure that ensures stable imaging performance, easy software upgrades and uniform image quality throughout the whole product lifetime.



[ Speckle Reduction Imaging technology ]

## Optimal Imaging Suite™

The ALPINION's integrated post-processing technology set (Optimal Imaging Suite™), embedded in the E-CUBE 9 Series, creates optimized images for each application by effectively decreasing artifacts and enhancing the borderline of each organ.

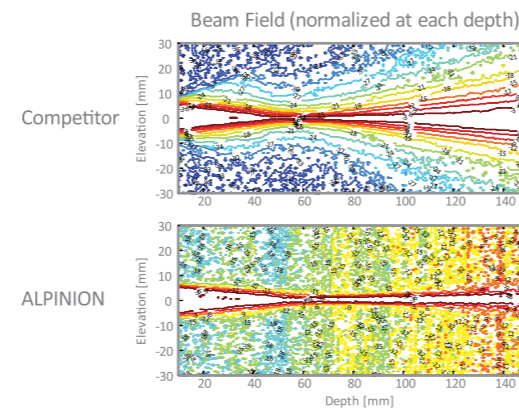


[ Spatial Compounding technology ]

## Crystal Signature™

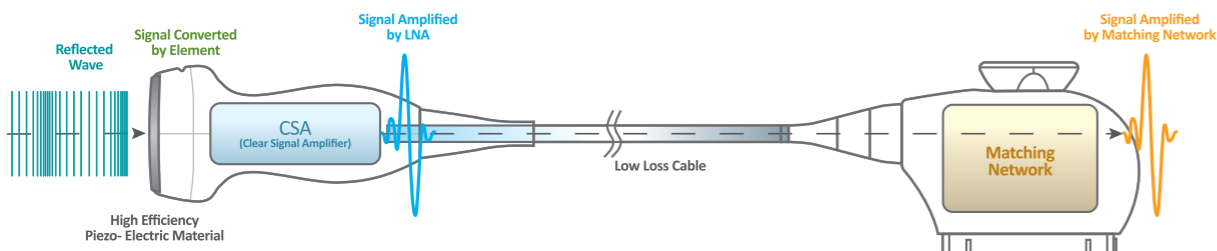
The ALPINION's unique acoustic engineering produces a superior beam-field pattern that provides a uniform image performance. ALPINION's specialized single crystal technology produces a characteristically sharp and deep elevation beam focus.

The innovative single crystal technology is characterized by a higher energy conversion efficiency than conventional piezo-ceramic materials that provides greater uniformity and sensitivity. The focused beam pattern, produced by ALPINION's single crystal technology (Crystal Signature™), results in high-resolution image, wide-bandwidth images, and deep penetration.



## SensitiView™

The ALPINION's unique and proprietary acoustic technology, SensitiView™, encompasses the CSA™ (Clear Signal Amplifier), low loss cable and matching technology with system. The CSA™ generates an enriched purified signal with active electronics from high-quality piezo-electric materials. The high-performance low loss cable transfers high-sensitive signals for optimum impedance matching with the system. The results is significantly enhanced sensitivity and high-resolution images.





## Efficient diagnostic flow

The efficient workflow adds to the performance perfection of E-CUBE 9 Series.

The E-CUBE 9 Series enhances user value in each phase of daily practice, from patient registration to clinical review, as well as diagnostic confirmation. The E-CUBE 9 Series fine-tunes its imaging technology, dedicated application software and built-in features for an optimized diagnostic flow.

### Clinician's value :

- Minimizes the time and effort to register a patient.

#### Solution • Quick ID

Simplifies patient registration process by basic information only. (Patient ID, name, year of birth and gender).

### Clinician's value :

- Application-specific software to maximize diagnostic confidence
- Easy operation through intuitive user interface

#### Solution • Auto IMT

Carotid scanning observes early stage arteriosclerosis. The ALPINION's Auto IMT software enables accurate, automatic and precise measurements of the thickness of the upper and lower intima-media through a single line near the intima.

#### • Live HQ™

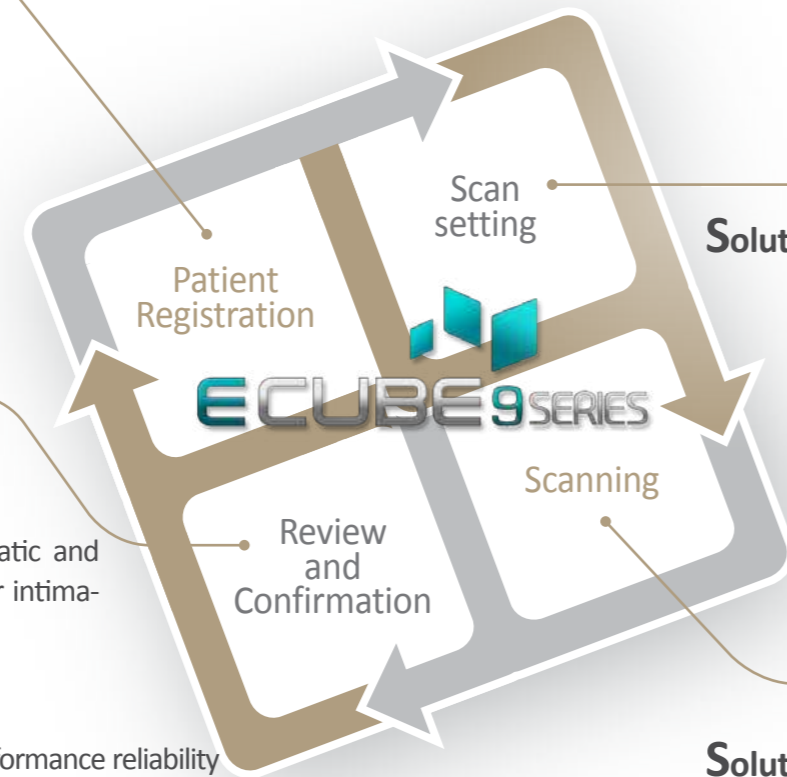
The combination of qualified 3D/4D transducers with strong performance reliability of geometrical accuracy enables ALPINION's Live HQ™ software to render a realistic fetal shape. The innovative illumination effect enhances the diagnostic confirmation of a morphological examination.

#### • CUBE Strain™

The ALPINION's strain imaging enables the quantitative and objective evaluation of myocardial contractions. CUBE Strain™ detects velocity gradients and helps clinicians analyze regional myocardial function.

#### • Needle Vision™ Plus

The ALPINION's sophisticated needle visualization technology, Needle Vision™ Plus dramatically enhances visibility of needle tip by increasing perpendicular reflection with Beam steering technology.



### Clinician's value :

- Minimizes the time and effort to register a patient.

#### Solution • Power User Preset

Quick mode transition based on pre-specified user presets that include probe selection, assigned specific function and image parameters.

### Clinician's value :

- Image optimization with minimal manipulation.

#### Solution • Xpeed™

Xpeed™ optimizes images in B-mode, color flow and Doppler mode with one button operation.

#### • FullSRI™

The ALPINION's unique speckle reduction filtering technology (FullSRI™) removes artifacts and enhances tissue edges with a high-resolution contrast.

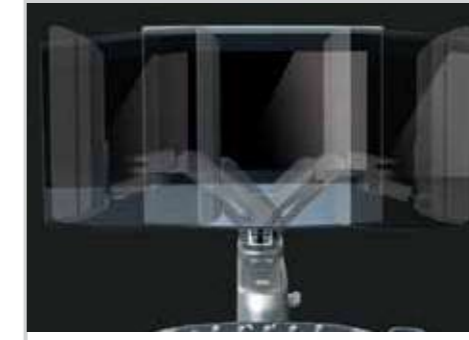
#### • SCI (Spatial Compounding Imaging) and FCI (Frequency Compounding Imaging)

The SCI and FCI provides higher contrast, less artifacts and more uniform images (from near field to far field) by steering multiple beam angles and combining ultrasound data from different frequencies.

## Innovation is born when design cares daily practice



#### 19.5" Wide LED Monitor



- A high-quality and wide LED monitor required for medical reviews

#### Articulating Monitor Arm

- A 360-degree articulated arm for unhindered interaction with patients

\* Available on E-CUBE 9 DIAMOND & E-CUBE 9 PRO

#### Built-in Gel Warmer

- Built-in Gel warmer for added patient comfort

\* Option for E-CUBE 9 STD

#### Lightweight transducer with excellent grip

- MicroFit™ technology, ALPINION's unique design technology for optimal scan conditions
- Lightweight transducer and flexible cable
- Comfortable use and minimal user fatigue

#### Control Panel Up-and-down and Swiveling



- Easy console height adjustment
- A 50-degree swiveling control panel

\* Control Up-and-down available on E-CUBE 9 DIAMOND & E-CUBE 9 PRO

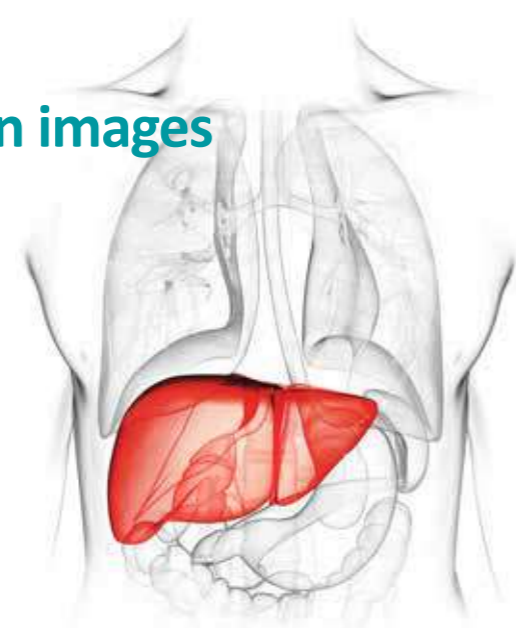
#### Micro-Pinless Transducer Connectors



- Micro-pinless typed transducer connector to remove any signal interference
- Anti-dust connector door



## Defining pure and high resolution images



### Optimized for abdominal scans

- Excellent performance in B/C/Doppler mode
- Deeper penetration with high-sensitivity image from Crystal Signature™ technology
- A wide selection of transducers that include various high-density convex transducers

The E-CUBE 9 Series features advanced single crystal transducers for deep penetration, wider bandwidth and high-sensitivity images. The results are exceptional even from high-volume patients.

Found in high-end systems, the high-density convex transducer of the E-CUBE 9 Series heightens diagnostic confidence and offers uniform high-resolution images in every abdominal examination.

### Renowned performance for MSK, Orthopedic, Pain Management and Small Parts

- Superior B/C/Doppler performance
- Clear needle detection imaging
- A wide range of linear transducers



The ALPINION's excellent linear transducer performance is a signature feature of E-CUBE 9 Series. Its qualified image performance provides clear needle detection images for accurate FNA (Fine Needle Aspiration) and needle injection.

The E-CUBE 9 Series offers the widest range of linear transducers, from the hockey stick to the wide footprint linear transducer. This optimal transducer portfolio assists in the clinician's diagnostic specialty.

### Optimized solutions for precise women's health exams

- Intuitive and lucrative 3D/4D software (Volume Master™)
- Superb and realistic fetus images rendered by Live HQ™
- Full transducer portfolio for women's health, from breasts to 3D/4D



The E-CUBE 9 Series provides optimized clinical solutions for all types of women's health exams through outstanding image performance and intuitive workflow.

The ALPINION's technological breakthroughs create the world-first single crystal volume convex transducer and the high performance 60mm wide linear transducer for breast exams.

Volume Master™, ALPINION's intuitive 3D/4D software, offers fast rendering speed and outstanding rendering quality. The innovative rendering technology, Live HQ™, provides realistic fetus images and fosters maternal-fetal bonding.

\*LIVE HQ™ available on E-CUBE 9 DIAMOND



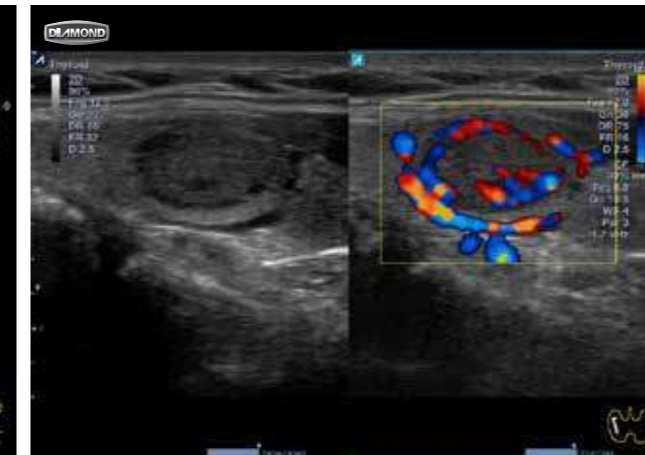
Intrahepatic Calcification



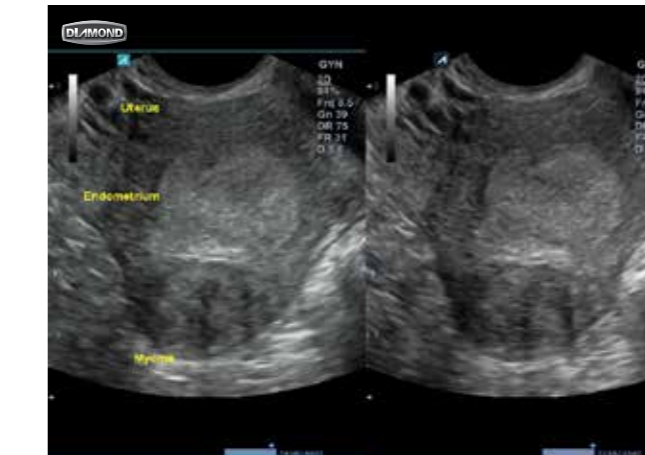
Right Kidney



Auto IMT to thickened IMT



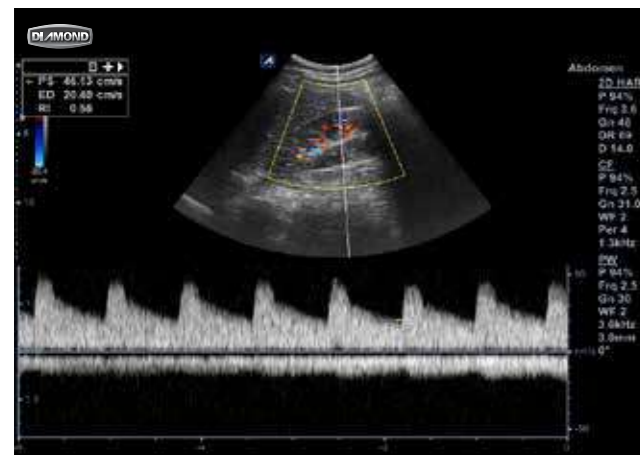
Thyroid Mass Live Dual view



Uterus Myoma



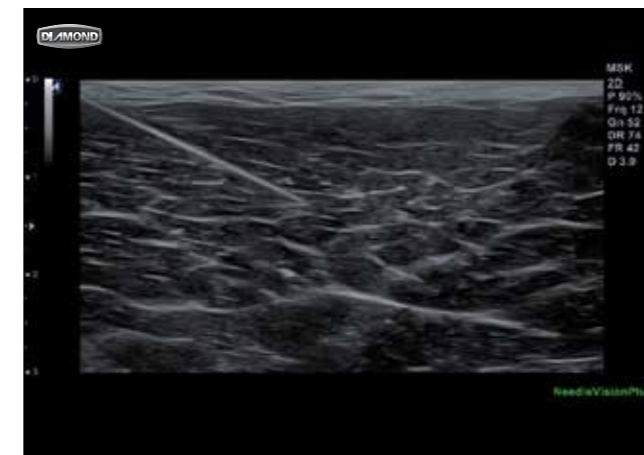
Fetal Heart in 4 Chamber view



Renal Spectrum



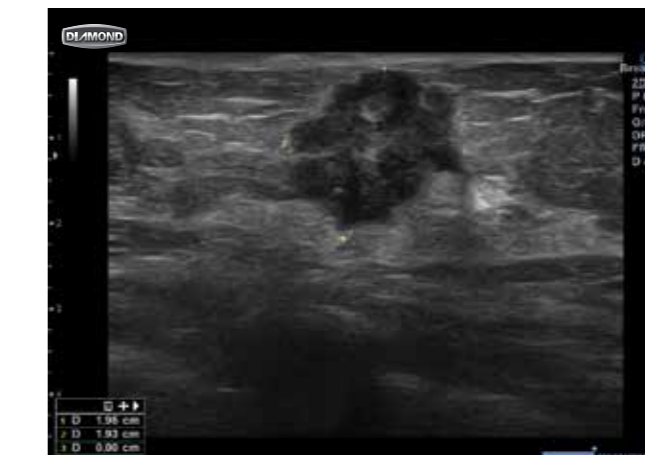
Renal Color Flow



Needle Vision™ Plus



Achilles Tendon



Breast Mass

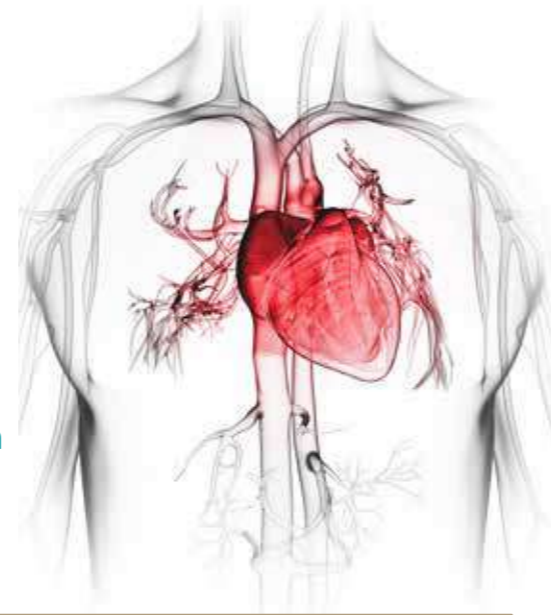


Fetal Face Rendering (Live HQ™)



## Customized package for cardio-vascular exams

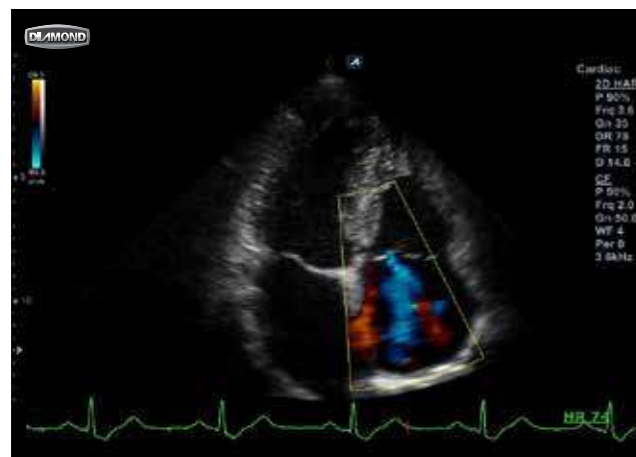
- Application dedicated transducer sets, from pediatric to adult cardiac exams
- Accurate measurement packages and report function
- Comprehensive CV tools and software to support diagnostic decisions



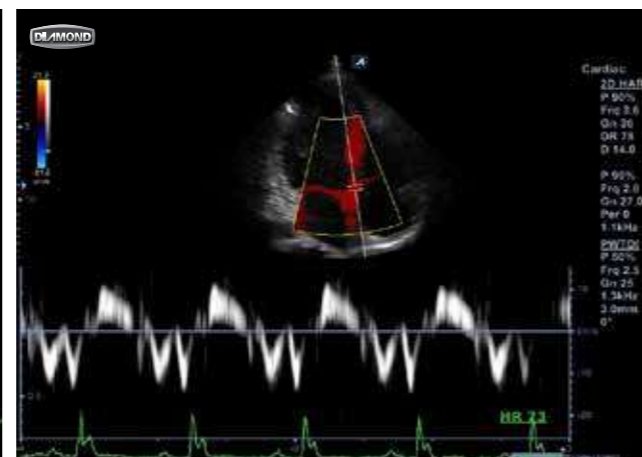
Integrating ALPINION's core imaging technology, a wide range of CV specialized transducer sets, accurate measurement, comprehensive CV tools and structured connectivity, the E-CUBE 9 Series offers clinicians a total diagnostic cardio vascular examination solution.

The E-CUBE 9 Series provides a wide selection of transducer sets, from single crystal adult and pediatric cardiac transducers to the peripheral deep vascular-specialized transducer.

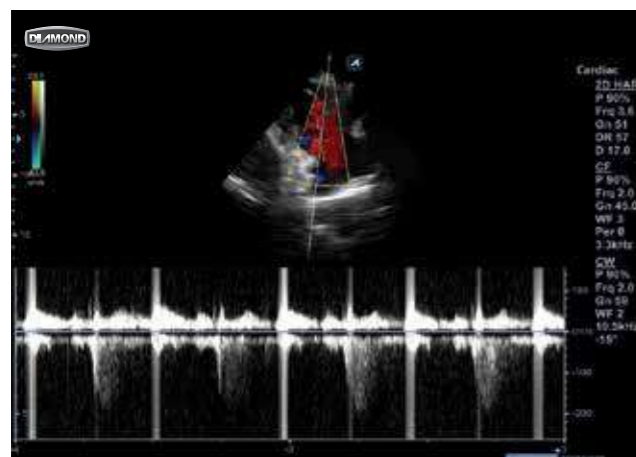
The full CV measurement package and CV-specialized tools (ECG, CUBE Strain™, Stress Echo and Auto IMT) support more precise cardio-vascular examination. A streamlined workflow with the seamless connectivity of DICOM 3.0, the modality worklist and the DICOM Cardiac SR guarantee clinicians reliable diagnostic efficiency in routine cardiac examination.



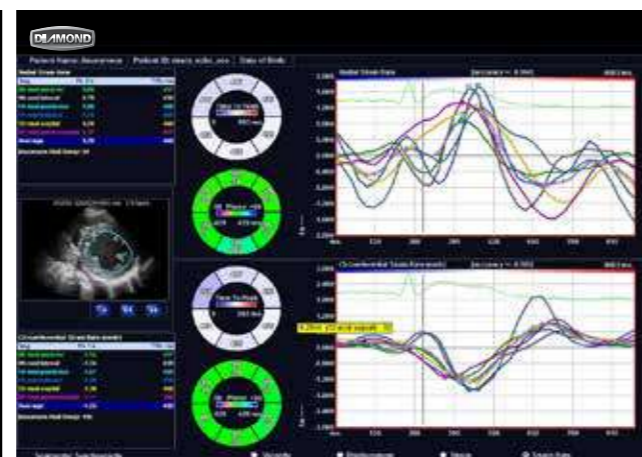
Tricuspid Regurgitation



Tissue Doppler Imaging



Tricuspid Regurgitation CW



CUBE Strain™

## Premium class transducers

The ALPINION's uniform and fundamentally excellent image performance is the result of an unique and proprietary acoustic technology. The E-CUBE 9 Series's premium class transducers provide clinicians with high definition image, excellent grip, easy contact and reliable performance.

Volume Convex	Convex	Endocavity
<b>SVC1-6</b> High density Single Crystal • OB, GYN, Fetal Echo	<b>SC1-6H *</b> High density Single Crystal • OB, GYN, Fetal Echo, Abdominal, Renal, Emergency Medicine  * Available for E-CUBE 9 DIAMOND only	<b>EV3-10H *</b> High density, wide bandwidth • GYN, OB, Fetal Echo, Emergency Medicine  * A biopsy kit is available.
<b>VC1-6</b> • OB, GYN, Fetal Echo	<b>SC1-4HS</b> Wide-angle high density Single Crystal • Abdominal, Renal, OB, GYN, Fetal Echo, Emergency Medicine  * Available for E-CUBE 9 DIAMOND only	<b>EC3-10H *</b> High density, wide bandwidth • GYN, OB, Fetal Echo, Urology, Emergency Medicine
Linear		
<b>L3-12H *</b> High density Single Crystal • Carotid, Peripheral Vascular, Thyroid, Testicle, MSK, Breast, Emergency Medicine	<b>SC1-4H *</b> High density Single Crystal • Abdominal, Renal, OB, GYN, Fetal Echo, Emergency Medicine	<b>EC3-10 *</b> • GYN, OB, Fetal Echo, Urology, Emergency Medicine
<b>L3-12H<sup>WD</sup></b> HD Wide linear array (60mm) • Breast, Thyroid, MSK	<b>SC1-6 *</b> Single Crystal • Abdominal, OB, GYN, Fetal Echo, Emergency Medicine	<b>EV3-10 *</b> • GYN, OB, Fetal Echo, Emergency Medicine
<b>L3-12 *</b> Linear array • Carotid, Peripheral Vascular, Thyroid, Testicle, MSK, Breast, Emergency Medicine	<b>C1-6 *</b> • Abdominal, OB, GYN, Fetal Echo, Emergency Medicine	Phased Array
<b>L3-8 *</b> Low frequency with the greater depth of penetration • Peripheral Vascular, MSK, Emergency Medicine	<b>C5-8</b> Micro convex • Pediatric, Cardiac, Vascular, Emergency Medicine	<b>SP1-5</b> Single crystal phased array for adult • Cardiac, Abdominal, Renal, TCD, Emergency Medicine
<b>I03-12</b> Intraoral • Salivary gland, Parotid gland, Submaxillary gland, Small Parts, MSK, Peripheral Vascular, Emergency Medicine	<b>CW5.0</b> Pencil typed transducer • Cardiac	<b>SP3-8</b> Single crystal phased array for pediatrics • Abdominal, Cardiac, Emergency Medicine
	Pencil Typed	<b>CW2.0</b> Pencil typed transducer • Cardiac



#### Real Time Customer Service

### NETCUBECARE™

ALPINION's E-CUBE system can be accessed by Net CUBE CARE™ service anytime for the efficient troubleshooting of system software. Net CUBE CARE™, ALPINION's unique network-based remote service, efficiently upgrades the E-CUBE system based on customer needs by accessing and upgrading software. ALPINION's Net CUBE CARE™ customer service is optional - please contact the ALPINION customer service team at [service@alpinion.com](mailto:service@alpinion.com) for further inquiries.

#### ALPINION MEDICAL SYSTEMS

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