



ALPINION MEDICAL SYSTEMS  
*We are Ultrasound Professionals*

  
**ECUBE12**  
Bringing excellence to daily care



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Standalone clinical images may have been cropped to better visualize pathology.

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**ALPINION**  
MEDICAL SYSTEMS



# E-CUBE 12

## Bringing excellence to daily care

The E-CUBE 12 is a great partner for the management of medical environments.

The E-CUBE 12 helps medical practitioners make quick and accurate diagnoses. Moreover, with its simple and user-friendly features, they can provide more patients with medical services in the same amount of time. The E-CUBE 12 gives medical practitioners more time to focus on their roles and to provide patients a more comfortable and positive healthcare experience. By using the E-CUBE 12, medical practitioners can earn a deeper trust from their patients and ultimately advance their clinic's success.

The E-CUBE 12 incorporates the latest technologies from ultrasound medical device specialist Alpinion Medical Systems, ensuring cost-effectiveness and higher image quality. Just as Alpinion is gearing up for a fresh start for the E-CUBE series with the new E-CUBE 12, your clinic will also be able to boost innovation and growth by using the E-CUBE 12.

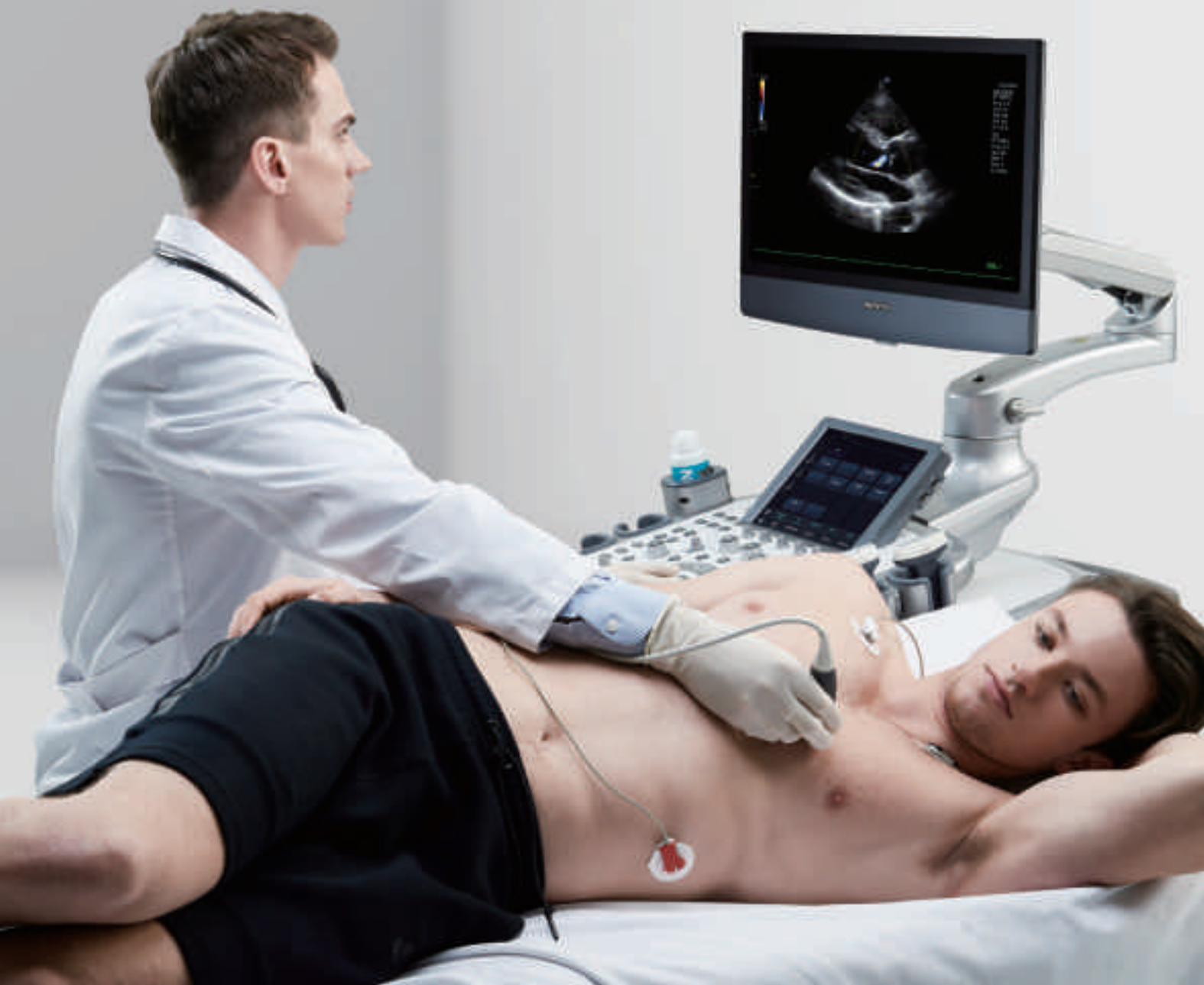




# Confidence to care

## Excellent imaging performance

The E-CUBE 12's high-performance system and transducers provide you with higher quality images. High-resolution images help you perform examinations more quickly and obtain more accurate diagnoses.



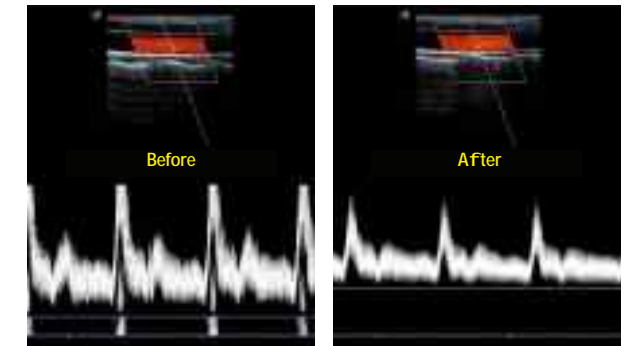
### The **system** used on Alpinion's top model

The E-CUBE 12 has the same high-end hardware and software platforms also used on the top model produced by Alpinion. With an even more enhanced algorithm engine, both resolution and penetration have improved dramatically for 2D images. Furthermore, with the application of the Dual pulser, clear and accurate Doppler data can be displayed in Doppler Combined Mode without compromising the quality of 2D images.



### Optimal Imaging Suite™ Plus

By combining Alpinion's image optimization processing technologies, artifacts can be eliminated more effectively. This also provides even more accurate data by distinguishing boundaries between tissues more clearly, and by expressing richer tissue textures.



### Xpeed™

Simply press the Xpeed™ button once to quickly optimize images in 2D Mode and Spectrum Doppler Mode for different clinical cases.

### A diverse range of high-performance **transducers**

Equipped with Alpinion's innovative technologies, the E-CUBE 12 promises superior image resolution and penetration. The improved clarity of images, durability, and stability are ensured during operation. You can attach transducers of different shapes and frequencies to the E-CUBE 12. High-quality images allow you to examine any part of the body with various depth and width dimensions, bringing broader clinical versatility.



### High-performance Single Crystal (Crystal Signature™) transducers

SP3-8T / SVC1-6H / SC1-6H / SC1-4HS



### Cost-effective C-Architecture (PowerView™) transducers

P1-5CT / C1-6CT



# Simplified to be your best

## Efficiency & productivity

The E-CUBE 12 provides a user and patient-oriented design and workflow. You can focus more on taking care of patients, as the E-CUBE 12 can be used easily and conveniently in different clinical environments with various time and space limitations. It also provides a comfortable and pleasant healthcare experience for patients.



### SSD for quick examination preparation

The use of high-end hardware and an SSD enhances stability when using the system, and the fast booting time makes speedy preparation for examinations possible.



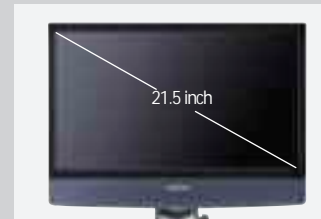
### Gel warmer developed for patient convenience

The gel warmer warms up the ultrasound gel before examination. The temperature can be adjusted in three steps according to examination circumstances. This will help patients relax and undergo an examination more comfortably.



### Compact transducer connectors and system

The E-CUBE 12's transducers have compact and light connectors. The system is slim yet it does not take up much space even with up to four transducers connected. You can scan patients more comfortably, and disconnect or reconnect the transducers easily and conveniently even in a tight space.



### Monitor that delivers accurate images

The 21.5-inch, FHD (1,920×1,080) LED monitor delivers sharp and clear images. With the use of IPS (In-Plane Switching) technology, image distortions do not occur and a wider field of view is provided. You can review accurate images easily without being restricted by your position or the surrounding environment.



### Convenient and intuitive touchscreen

By applying an intuitive UI design to a high-sensitivity, high-resolution 10.4-inch touchscreen, the convenience and speed of using the touchscreen have been improved. Using the Power Presets located on the left side of the touchscreen, you can load a system preset saved in advance with a single touch. Quick and easy application of presets will shorten the image setup time.



### Quick and user-friendly control panel

All control panel keys are arranged in the most efficient and intuitive manner for examination. Frequently used functions can be assigned to six user keys, which are arranged for easy access on the control panel. This reduces the time the user spends pressing keys and makes work easier. The brightness of the backlight on the control panel is adjustable, enabling it to be used in a darker environment. The height and angle of the control panel can be adjusted easily and conveniently, allowing you to scan patients in a comfortable position at any time.





# Enhancement of Clinical Capabilities

The E-CUBE 12 is a multi-purpose system that can be used in all specialized areas that require ultrasound imaging such as internal medicine, obstetrics/gynecology, orthopedics, etc. By providing premium-grade diagnostic tools for each area, it broadens the application range of ultrasound examinations and ensures accurate diagnoses.



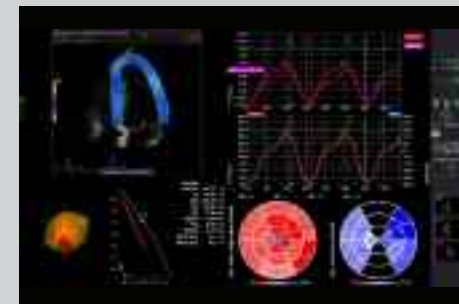
## Auto IMT

When you draw a line in the area where the carotid intima media thickness is to be measured, the thickness will be measured automatically and displayed on the screen. Measurements can be made more quickly and accurately down to the millimeter level, regardless of the user's proficiency.



## DPDI (Directional Power Doppler Imaging)

Power Doppler technology shows blood flow directions at a higher sensitivity than Color Doppler technology. It is useful in detecting slow peripheral blood flow (renal blood vessels, peripheral blood vessels, the middle cerebral artery, etc.).



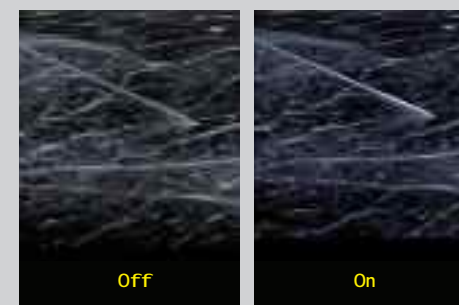
## CUBE Strain™

This is a non-invasive examination method that is used to assess the myocardial function more objectively. You can track speckles in 2D heart images, digitize the movement of each myocardial segment, and check quantified data.



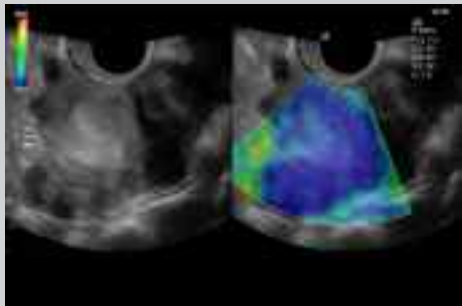
## Stress Echo

The optimized examination workflow allows you to perform a Stress Echocardiogram more quickly and conveniently, aiding early diagnosis of chronic coronary heart disease.



## Needle Vision™ Plus

Using Beam Steering technology, this feature is useful in showing the shape and orientation of the needle. During invasive ultrasound-guided procedures, the needle can be viewed more clearly by adjusting the beam angle in three steps. This ensures safer and more accurate procedures.



### Elastography

Elastography intuitively shows the relative differences in tissue elasticity caused by external pressure by using colors. It provides additional pathological information and helps reduce the need for unnecessary biopsies. The Indication bar shows whether the amount of pressure on tissues is appropriate on a scale of 1 to 6 in real-time, adding to the credibility of results.



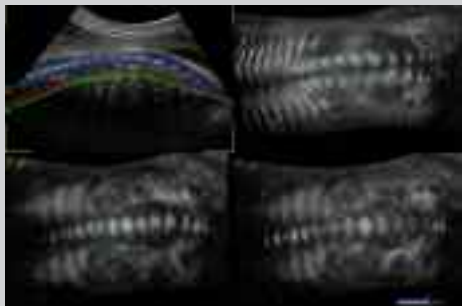
### Auto NT

When you draw an ROI box in a desired measurement area during a nuchal translucency scan, the maximum thickness will be automatically measured and displayed on the screen. Examination results can be checked quickly in busy examination environments.



### Volume Master™

Alpinion's high-performance 3D/4D features show you surfaces from volume data and orthogonal plane views which are not obtainable with standard 2D scanning. It enables you to obtain anatomical data and understand the structural connectivity between regions. Using the features in the Volume Master™, Multi Planar Rendering (MPR), Cubic View, and Multi Slice View (MSV), you can take advantage of the clinical benefits of CT or MRI.



### Volume Advance™

On top of Volume Master™, Volume Advance™ provides the following more advanced features: Free Angle MSV, AnySlice™, and Volume Analysis. You can slice a desired section and display slices consecutively. Therefore, anatomical and pathological characteristics and volume information can be delivered more accurately and in detail.



### Live HQ

With the improved Volume Rendering technology, the light source can now be moved freely and the optimized color maps can be applied in a variety of ways. Realistic volume images make fetal anatomy easier to understand, which leads to quick and more accurate diagnoses, and helps create a bond between the parent and the unborn baby.

# In-house Developed & Manufactured Transducers

Alpinion develops and manufactures transducers in-house.  
Reliable quality / Best compatibility / Cheaper maintenance / Faster repair

★ A biopsy kit is available.

## Convex



- SC1-6H ★**  
High density single crystal convex  
Fetal, Abdominal, Pediatric, Musculoskeletal(MSK), Peripheral vessel, Urology
- C1-6CT ★**  
C-Architecture (PowerView™) convex  
Fetal, Abdominal, Pediatric, Musculoskeletal(MSK), Peripheral vessel, Urology
- SC1-4HS ★**  
Wide angle high density single crystal convex  
Fetal, Abdominal, Pediatric, Musculoskeletal(MSK), Peripheral vessel, Urology
- C5-8NT**  
Micro convex  
Abdominal, Pediatric, Neonatal Cephalic, Cardiac, Peripheral vessel
- SVC1-6H**  
High density single crystal volume convex  
Fetal, Abdominal, Pediatric, Peripheral vessel, Urology

## Volume Convex



## Linear



- L8-17X ★**  
Extreme high density linear, 58.2mm wide aperture  
Fetal, Abdominal, Pediatric, Small organ, Musculoskeletal (MSK), Peripheral vessel
- L8-17H**  
High density linear  
Fetal, Abdominal, Pediatric, Small organ, Neonatal Cephalic, Musculoskeletal(MSK), Peripheral vessel
- L3-12X ★**  
Extreme high density linear, 58.2mm wide aperture  
Fetal, Abdominal, Pediatric, Small organ, Musculoskeletal (MSK), Peripheral vessel
- L3-12H ★**  
High density linear  
Abdominal, Pediatric, Small organ, Neonatal cephalic, Musculoskeletal(MSK), Peripheral vessel
- L3-12HWD**  
High density linear, 64mm wide footprint  
Fetal, Abdominal, Pediatric, Small Organ, Musculoskeletal (MSK), Peripheral vessel
- L3-8H ★**  
High density low frequency linear  
Fetal, Abdominal, Neonatal cephalic, Musculoskeletal(MSK), Urology

## Endocavity



- IO3-12**  
Intraoral linear  
Intra-operative, Pediatric, Small organ, Musculoskeletal (MSK), Peripheral vessel
- IO8-17T**  
High frequency hockey stick linear  
Intra-operative, Pediatric, Small organ, Musculoskeletal (MSK), Peripheral vessel
- EV3-10X ★**  
Extreme high density endocavity, FOV Max.230° (curved)  
Fetal, Trans-rectal, Trans-vaginal, Peripheral vessel, Urology
- EC3-10X ★**  
Extreme high density endocavity, FOV Max.230° (straight)  
Fetal, Trans-rectal, Trans-vaginal, Peripheral vessel, Urology
- EV3-10H ★**  
High density endocavity (curved)  
Fetal, Trans-rectal, Trans-vaginal, Peripheral vessel, Urology
- EC3-10H ★**  
High density endocavity (straight)  
Fetal, Trans-rectal, Trans-vaginal, Peripheral vessel, Urology

## Volume Endocavity



- VE3-10H ★**  
High density volume endocavity  
Fetal, Trans-rectal, Trans-vaginal, Peripheral vessel, Urology

## Phased Array



- P1-5CT**  
C-Architecture (PowerView™) phased array  
Fetal, Abdominal, Pediatric, Adult cephalic, Cardiac, Peripheral vessel
- SP3-8T**  
Single crystal phased array  
Fetal, Abdominal, Pediatric, Neonatal cephalic, Adult cephalic, Cardiac

## Pencil Typed



- CW5.0**  
Pencil typed  
Cardiac, Peripheral vessel
- CW2.0**  
Pencil typed  
Cardiac