ECUBE8 DIAMOND

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ALPINION MEDICAL SYSTEMS
We are Ultrasound Professionals

ECUBE8 DIAMOND
Everlasting productivity

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

MKT-EC8D-TS-PC-E1904-V1.0

ALPINION MEDICAL SYSTEMS

Everlasting productivity, **E-CUBE 8 Series**

With the rapidly changing medical environment, the demands of patients and medical practitioners are growing more diversified. To meet these demands, we need to quickly adapt and respond to our customers' needs. Providing both convenience of use and prompt and accurate diagnosis, the E-CUBE 8 Series is an indispensable partner for your practice. Your patients can enjoy individual service and care, and the healthcare efficiency will also be improved.
The E-CUBE 8 Series is a smart, reliable product that ensures high performance with outstanding image quality and multi-purpose usability. The E-CUBE 8 Series is the most rational choice for you.

E-CUBE 8 Diamond

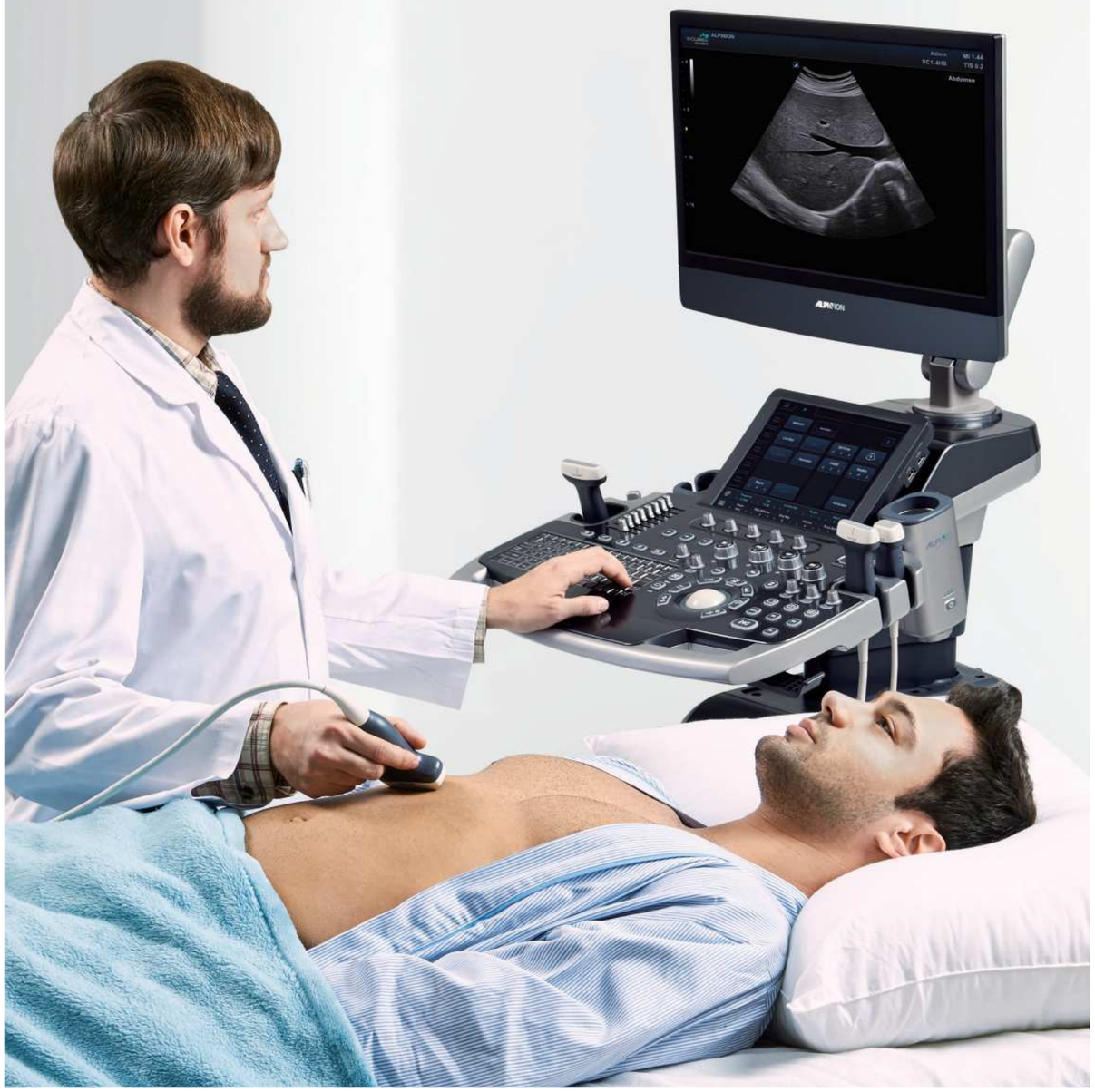
E-CUBE 8 LE

E-CUBE 8

Excellent imaging performance

helps you make clinical decisions with confidence

The E-CUBE 8 Series' high-performance transducers and system realize high-resolution images. The high image clarity assists you in performing examinations more quickly and making more accurate diagnoses.



High-resolution transducers

Single crystal convex : SC1-4H / SC1-4HS / SC1-6H

Crystal Signature™ is Alpinion's proprietary technology, capable of achieving thermal conversion efficiency that is over 90% higher than PZT. This premium material can deliver clear, detailed images because its sensitivity to signals has been enhanced through more efficient dispersion of ultrasonic waves.

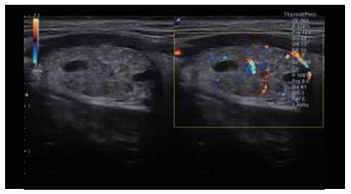
*Available on E-CUBE 8 Diamond

High-frequency linear : L8-17H / IO8-17

The high-frequency linear transducers can be attached to the E-CUBE 8 Series. Several footprint width options and outstanding linear image quality help with breast, thyroid, musculoskeletal, and vascular examinations.

*Available on E-CUBE 8 Diamond

High-performance system



Flagship model-grade platform

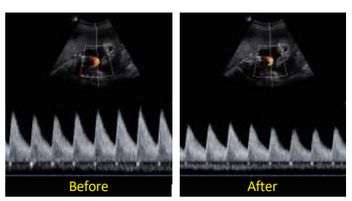
Equipped with Alpinion's top-grade platform, the E-CUBE 8 Series is fitted with high-end hardware and software. The resolution, contrast, and uniformity of its 2D images have been improved, and with the addition of the Dual Pulser, clear and accurate Doppler data can be displayed while maintaining sharp 2D images in Doppler Combined Mode.

Optimal Imaging Suite™ Plus

By combining Alpinion's image optimization processing technologies—SCI, FCI, FTHI, PITHI, and SRI/FullSRI™—artifacts are effectively eliminated and boundaries between tissues are distinguished more clearly. The broader grayscale range also enables the clearer expression of tissue textures and greater data accuracy.

Frame rate increasing technology

The image resolution and frame rate of the E-CUBE 8 Series have been improved with the application of technology that increases the high-pulse repetition frequency (PRF). Now, images can be quickly optimized in 2D Mode and Spectral Doppler Mode.



Xpeed™

Simply press the Xpeed™ button once to quickly optimize images in 2D Mode and Spectrum Doppler Mode. Detect, predict, and adjust the Dynamic range level in real-time. It displays images optimized and customized for different clinical cases.

Simple yet valuable design

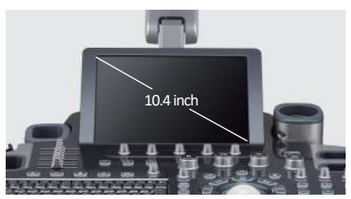
improves your efficiency in daily practice

The E-CUBE 8 Series is designed for patient-oriented workflow.
The user can better focus on patient care because the E-CUBE 8 Series can be easily and conveniently used in different clinical environments.

Designed for **user environments**

21.5-inch full HD LED monitor

The 1,920×1,080 pixel high-resolution monitor delivers sharp, clear ultrasound images. By implementing IPS (In-Plane Switching) technology, image distortions are eliminated and a wider field of view can be provided. As the user can easily review images without being restricted by location or environment, it's not only more convenient to carry out diagnoses, but their accuracy is also improved.



10.4-inch touchscreen

The capacitive touchscreen features high sensitivity, and its convenience and efficiency has been improved with an intuitive UI design, just like on the tablet devices that we're familiar with.

*Available on E-CUBE 8 Diamond / E-CUBE 8

Articulating monitor & adjustable control panel

The monitor is horizontally and vertically adjustable, so you can freely use it, regardless of how the patient may be positioned. You can move the monitor up to 140 mm vertically, rotate it up to 90° horizontally, or tilt it up to +15°/-90°. The control panel's height can also be adjusted easily to suit your needs.

*Available on E-CUBE 8 Diamond

Built-in gel warmer (optional)

The gel warmer warms up the ultrasound gel before examination. The temperature can be adjusted to three settings according to the situation. This helps provide a more comfortable examination experience for patients.

Compact transducer connector

The E-CUBE 8 Series' transducers implement compact and light connectors: the system is slim, but does not take up much space, even with up to four transducers connected. You can effortlessly disconnect or reconnect the transducers, even in tight spaces, making it easier and more comfortable to scan patients.

User-oriented design

Power Preset

The user can load a system preset saved in advance with a single touch. By using these quick and easy presets, you can shorten the imaging setup time.

User-friendly control panel

The control panel has a keyboard at the top, making it easy to access. Frequently used functions can be assigned to the three user keys, which are arranged for easy access on the control panel. By minimizing the number of unnecessary keypresses, user workflow is made more efficient and user fatigue is reduced. The brightness level of the backlight of the control panel is adjustable, so it can used in darker environments.

SSD for quick exam preparation

The E-CUBE 8 Series uses high-end hardware, including an SSD. This results in higher system stability and faster boot times that can speed up preparation for examinations.

USB 3.0 for better patient care

The E-CUBE 8 Series feature a USB 3.0 port. Compared to the current USB 2.0 ports, the data transfer speed for USB 3.0 ports is about ten times faster. The USB 3.0 port reduces the transfer time when exporting data for your patients or research data, allowing the user to focus more on patient care.

Battery that frees you from space restrictions

The combination of compact exterior design and attached battery makes the E-CUBE 8 Series much easier to transport. By removing reliance on a power cable, the user can transport the unit to a different location while in Exam Mode, then resume the examination right away. More time can be reserved for patient care by reducing the time spent on turning the system off, then back on.

Enhancement of diagnostic flow

provides accurate patient care in making informed decisions

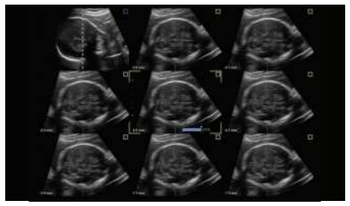
The E-CUBE 8 Series is a multi-purpose system that can be used in all specialized areas that require ultrasound imaging, such as internal medicine, obstetrics/gynecology, orthopedics, etc. It broadens the application range of ultrasound examinations and ensures accurate diagnoses through premium-grade software diagnostic tools.

Live HQ™

With improved volume rendering technology, the light source can now be freely moved and the optimized color map can be applied in a variety of different ways. Realistic volume images make fetal anatomy easier to understand, which leads to more accurate and quicker diagnoses. Better, more realistic imagery also helps create bonds between parents and their babies.

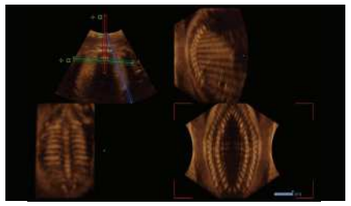
Auto NT

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



Volume Master™

Volume Master™, Alpinion's 3D/4D feature, enables you to obtain reproducible planes and better anatomical views, which can't be obtained with 2D scanning. Multi Planar Rendering (MPR), Cubic View, and Multi Slice View (MSV) provide clinical benefits comparable to a CT or MRI.



Volume Advance™

Together with Volume Master™, Volume Advance™ provides more advanced features for handling volume data: these include Free Angle MSV, AnySlice™, and Volume Analysis. You can slice a desired section and consecutively display slices. This enables anatomical and pathological characteristics and volume information to be delivered more accurately and in greater detail.

Auto IMT

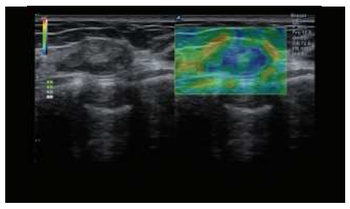
When the user draws a line in the area where the carotid intima media thickness is to be measured, the thickness will be automatically measured and displayed on the screen. Measurements can be made more quickly and accurately, down to the millimeter level, regardless of the user's proficiency.

CUBE Strain™

This is a non-invasive examination method that is used more objective assessment of the myocardial function. The user can track speckles on 2D heart images, digitize the movement of each myocardial segment, and check the quantified data.

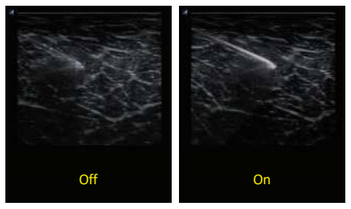
Stress Echo

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



Elastography

Elastography intuitively shows the relative differences in tissue elasticity caused by external pressure 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 tissue is appropriate in real time on a scale of 1 to 6, thus improving the credibility of results.



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 using the linear transducer, the needle can be viewed more clearly by adjusting the beam angle in three steps, ensuring safer and more accurate procedures.

In-house Developed & Manufactured **Transducers**

Alpinion carries out in-house development and manufacturing of its transducers.
Reliable quality / Best compatibility / Cheaper maintenance / Faster repair

Transducer Guide

✻ A biopsy kits is available

Convex

SC1-6H ✻
High density single crystal convex
Fetal, Abdominal, Pediatric, Musculoskeletal(MSK), Peripheral vessel, Urology
*Available on E-CUBE 8 Diamond

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
*Available on E-CUBE 8 Diamond

SC1-4H ✻
High density single crystal convex
Fetal, Abdominal, Pediatric, Musculoskeletal(MSK), Peripheral vessel, Urology
*Available on E-CUBE 8 Diamond

C5-8NT
Micro convex
Abdominal, Pediatric, Neonatal cephalic, Cardiac, Peripheral vessel

Volume Convex

VC1-6T
Volume convex
Fetal, Abdominal, Pediatric, Urology

Linear

L8-17H
High density linear
Fetal, Abdominal, Pediatric, Small organ, Neonatal cephalic, Musculoskeletal(MSK), Peripheral vessel
*Available on E-CUBE 8 Diamond

L3-12H ✻
High density linear
Abdominal, Pediatric, Small organ, Neonatal cephalic, Musculoskeletal(MSK), Peripheral vessel

L3-12H^{WD}
High density linear, 64mm wide footprint
Fetal, Abdominal, Pediatric, Small organ, Musculoskeletal (MSK), Peripheral vessel

L3-12T ✻
Linear
Abdominal, Pediatric, Small organ, Neonatal cephalic, Musculoskeletal(MSK), Peripheral vessel

IO8-17
High frequency hockey stick linear
Intra-operative, Pediactric, Small organ, Musculoskeletal (MSK), Peripheral vessel
*Available on E-CUBE 8 Diamond

Endocavity

EC3-10T ✻
Endocavity (straight)
Fetal, Trans-rectal, Trans-vaginal, Peripheral vessel, Urology

EV3-10T ✻
Endocavity (curved)
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

CW2.0
Pencil typed
Cardiac

Real-time customer service

Convenient System Update

Alpinion's unique imaging platform, FleXcan™ Pro Architecture, realizes consistency of image quality and convenience of system upgrades throughout the product's life cycle. All core elements of the diagnostic ultrasound system are software-based so that customers can keep their system up-to-date with easy and speedy upgrades.

High Quality Transducers

Alpinion has developed its own transducers to manufacture in its own facilities. These ergonomically designed products use light-weight and flexible cables to reduce user fatigue. The durable connectors and sturdy exterior materials are designed to ensure convenience and durability in any environment. Furthermore, Alpinion operates its own maintenance and warranty service teams to promptly respond to customer requests.