

# ECUBE15 PLATINUM

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



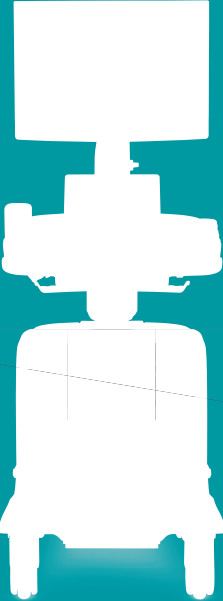
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MKT-E15-SS-PC-E1706-V4.0



# ECUBE15 PLATINUM

Quality in your daily practice



**ALPINION MEDICAL SYSTEMS**  
We are Ultrasound Professionals



# E-CUBE 15 Platinum

## Quality in Your Daily Practice

In a fast-paced medical care environment, demand continues to increase among medical practitioners for ultrasound diagnostic systems that offer accuracy and convenience in diagnosis process. Alpinion placed its focus on customer-oriented research and development activities to improve diagnosis environment in medical facilities; offer convenient functions with stability in performance; and enhance efficiency in workflow. E-CUBE 15 Platinum is a high-performing diagnostic ultrasound system with its diagnosis process meeting all of your demands.

Sophisticated system and new UI(User Interface) design of E-CUBE 15 Platinum will add premium value to your daily practice. Combination of a vast range of features and the powerful architecture applied will provide superb image quality and help you facilitate productive diagnostic exams. In turn, you shall be able to spare extra time for communicating with individual patients to offer the quality care.





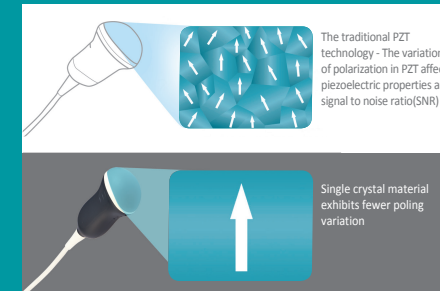
# Excellence in **image quality**

helps you make clinical decisions with confidence.



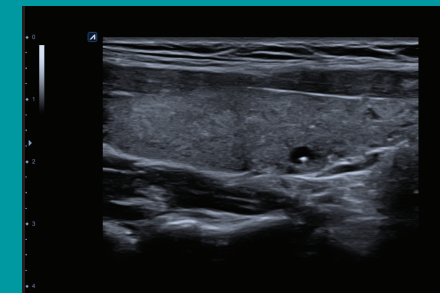
Quality in your daily practice

## Superb Image Quality



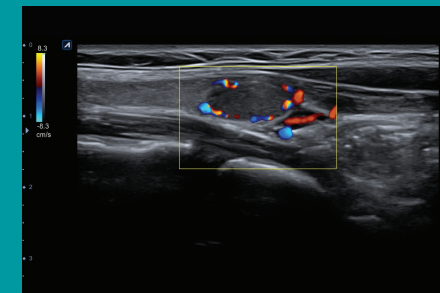
### Crystal Signature™

Transducers, applied with Alpinion's own single crystal technology, will maximize the penetration to enable high-resolution imaging processes. Superior single crystal transducers result in a wide bandwidth and higher sensitivity that provide higher resolution and superior image quality to you.



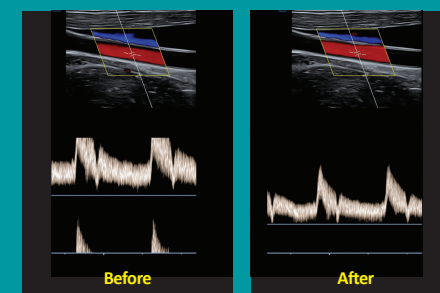
### Improved fundamental 2D imaging performance

E-CUBE 15 Platinum deploys its new hardware to improve resolution, contrast, and uniformity of 2D images. The combined image optimizing algorithm, Optimal Imaging Suite™ Plus, more powerfully advanced than before, provides exceptional details, clearer border definition and a wider grayscale in tissue.



### Enhanced Doppler performance

Two individual pulsers of H/W architecture separately control each signals of 2D mode and Doppler to improve Doppler image quality while keeping the fundamental image quality, which also compounds better Doppler signals and controls focusing of transmitted signals in each mode to ultimately provide clearer and more precise images.



### Advanced Xspeed™

The improvement of Xspeed™ with the precision optimized technology applied enables E-CUBE 15 Platinum to detect and predict dynamic range levels in real time in 2D mode and in Spectral Doppler mode. The optimized clinical images with the lowest noise levels and the faster processing speed up your daily practice providing clinical confidence.

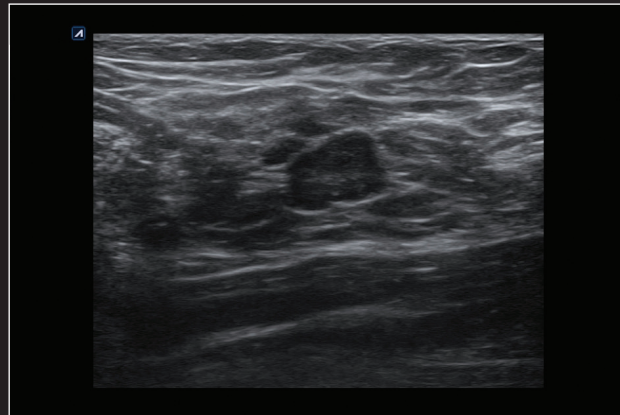


### Hockey stick linear transducer

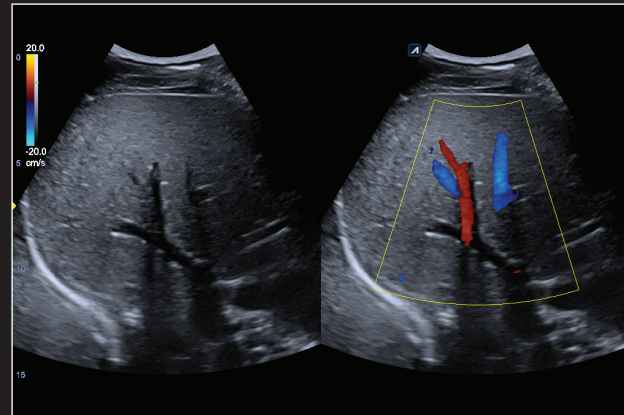
The hockey-stick type transducer (IO8-17) offers small footprint yet high frequency. Thus diagnosis can be made much easier on small areas of the body including fingers and toes.



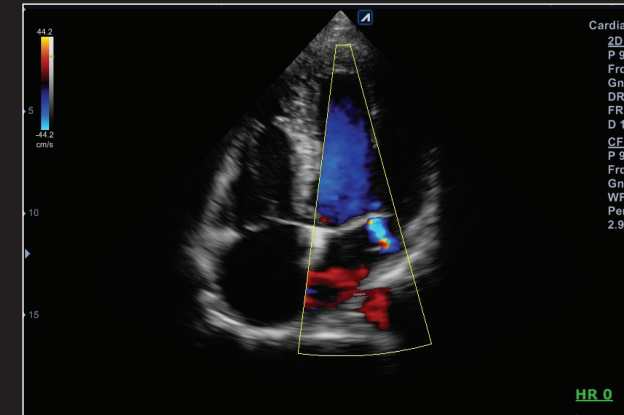
# Quality Images in Your Daily Practice



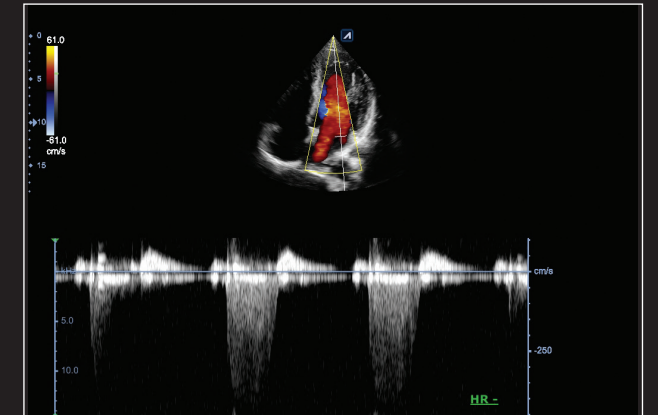
Breast in 2D



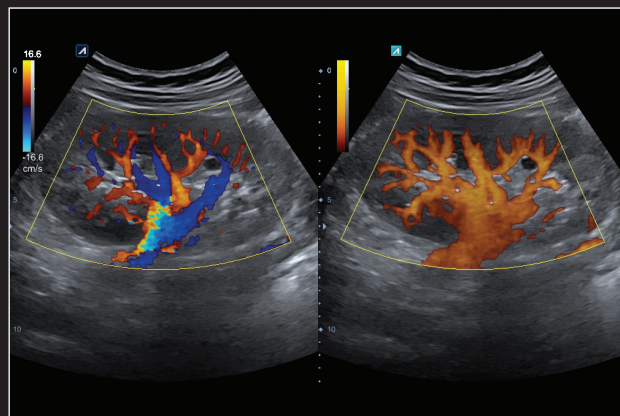
Liver in Dual Live mode



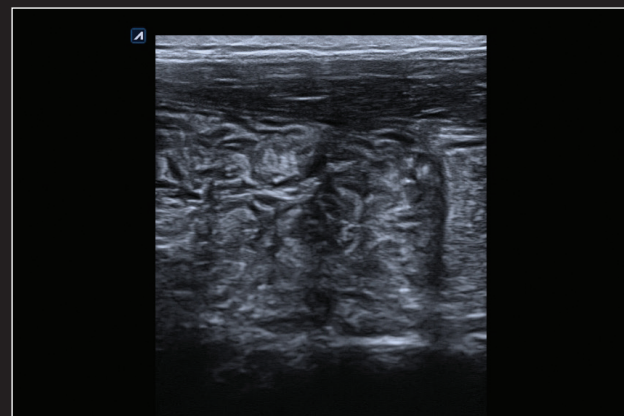
4 chamber view with mitral regurgitation in Color



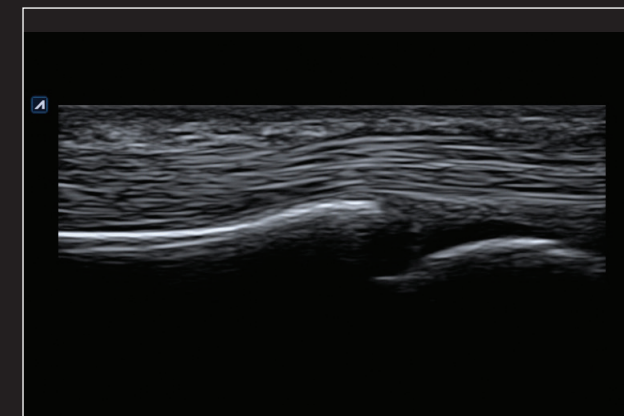
4 chamber view of heart in CW



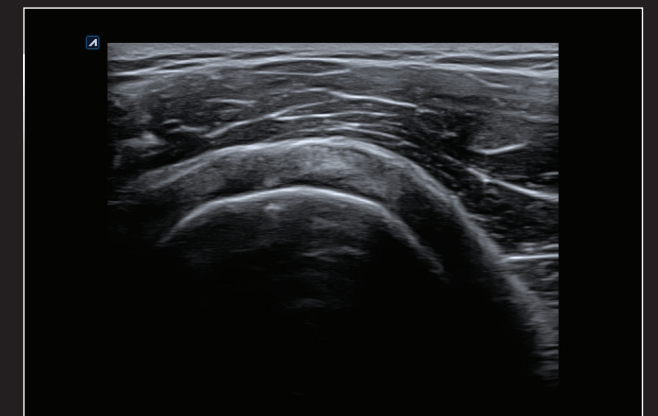
Kidney in CF and PD mode



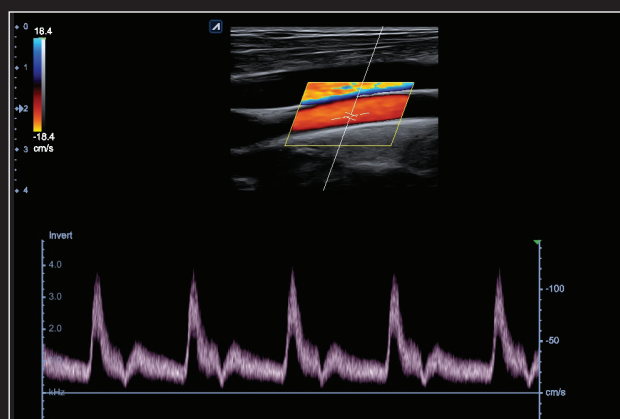
Bowel in 2D



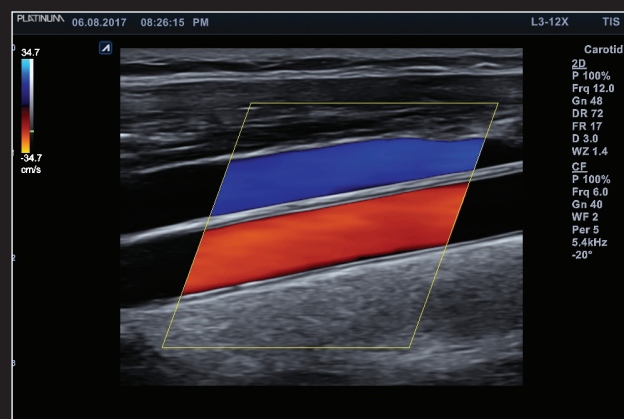
Tendon of a finger in 2D



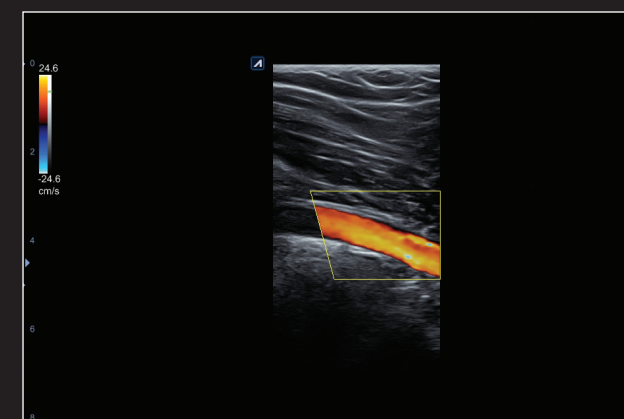
Shoulder in 2D



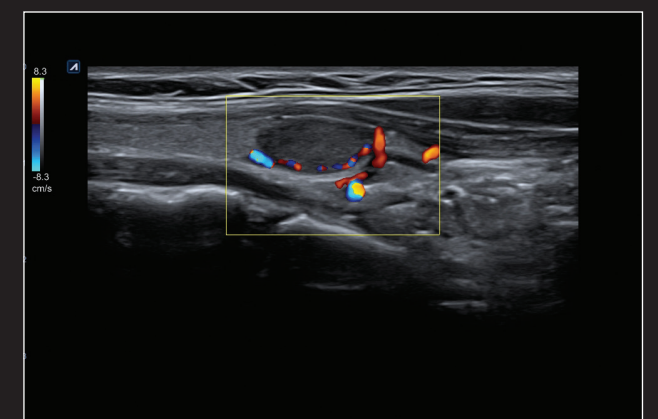
Carotid artery in PW



Carotid artery and jugular vein in Color Flow



Popliteal artery in Color



Thyroid in Color





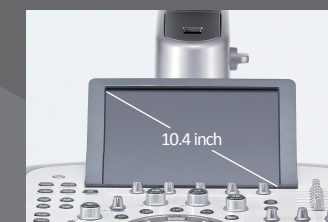
Simplicity of system **design**  
enhances your convenience in daily practice.

## Ergonomic Design in Metallic Colors: Grey or White



### 21.5-inch full HD LED monitor

High-resolution monitor of 1,920x1,080 pixels provides clear clinical images. IPS(In-Plane Switching) technology offers wide viewing angle. In addition, undistorted images, regardless of user locations and environment, achieve accuracy and convenience in diagnosis.



### 10.4-inch touchscreen

Convenience in workflow is drastically enhanced with combination of touchscreen with high sensitivity equivalent to tablet PCs and up-to-date UI design.



### Motorized-height adjustment of control panel

With an up down push button, the adjustment of height of control panel is made easier.



### Built-in gel warmer

Temperature can be controlled by three levels to flexibly adjust to different diagnostic exam circumstances to ensure patient comfort.



### Articulating monitor arm

With the fully articulating monitor arm, users can freely place the monitor without any limitation from the patient position. The monitor can move 140mm up and down, swivel  $\pm 90^\circ$  and tilt  $\pm 15^\circ$ .



### Transducer cable holders

Four transducer cable holders are available at your convenience. Users can keep the transducer cables neatly organized.



## Intuitive and Efficient User Experience



### New user interface

With the latest GUI design, which offers high readability, access to essential functions and modes becomes easier and faster.



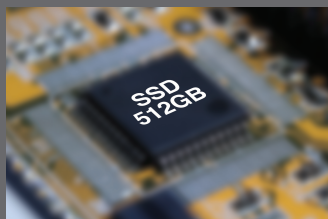
### New control panel

These configurable six keys are arranged in the most intuitive layout to ensure efficiency in diagnosis process. Less number of keystrokes would reduce fatigue from use while increasing the speed of exams. The backlight of panel can be adjusted to user environment.



### Power preset

With a single touch, users are able to preset system tailored to their preferences. Easy and fast "Preset" lessens the burden and time wasted for setting images.



### Enhanced computing power

E-CUBE 15 Platinum offers high data processing speed with its 512 GB SSD memory. It boasts booting time as short as approximately 53 seconds and faster operating speed thus to reduce time for your diagnosis practice.



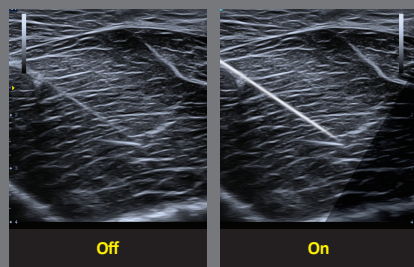
Simplicity of workflow **design**  
improves quality of patient care in daily practice.





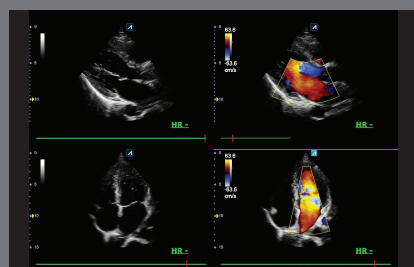
Advancement of **technology** offers assistance in making informed decisions.

## Enhanced Visualization



### Needle Vision™ Plus

Beam steering displays shape of needle and in which direction the needle is heading to guide safe injection. With this needle enhancement function, accuracy and safety of procedures will be improved when using a linear transducer. Beam angles can be adjusted by three levels that direction and shape of needle are visible with advanced clarity.



### Raw data post processing

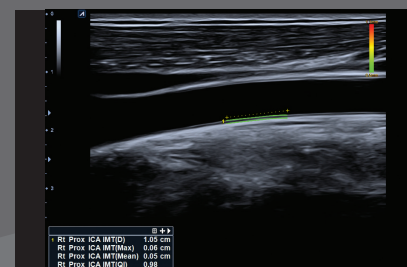
Acquired images can be post processed based on raw data. For images that are already stored, adjustment of parameters and re-measurement are available that users can make in-depth diagnosis and tracking observation after initial diagnosis.



### DPDI (Directional Power Doppler Imaging)

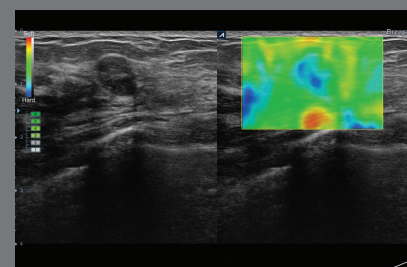
The technology brought improvement in delivering information related to direction of blood flow and sensitivity of Color Doppler. This is useful in sensing relatively slower blood flow in peripheral blood vessels (e.g. renal vessels, peripheral vessels and middle cerebral artery).

## Intelligent Analysis Tools



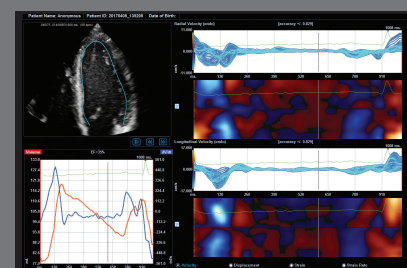
### Auto IMT

Auto IMT allows you to automatically measure intima-media thickness of carotid arteries. It enables more reliable and reproducible assessment.



### Elastography

Elastography is ultrasound imaging technology that reveals relative elasticity of tissues against external pressure. In parallel, relevant pathological information is offered to help reduce unnecessary biopsy. Pressure level on tissues can be monitored real time with an indication bar marked with its scale of one (1) to six (6) to enhance credibility of results.



### CUBE Strain™/ Stress Echo

E-CUBE 15 Platinum offers convenient measurement functions essential for cardiac diagnosis including CUBE Strain™ and Stress Echo. With Alpinions' phased array transducers that implemented single crystal technology, more clarity in images is achieved, and with use of the functions, early diagnosis of cardiac disorders can be made possible.



# Transducers

Developed and manufactured by ALPINION for unrivalled acoustic performance

\* A biopsy kit is available

## Convex



**SC1-6H \***  
High density single crystal  
OB/GYN, Abdomen,  
Emergency Medicine (EM)

**SC1-4H \***  
High density single crystal  
Abdomen, OB/GYN,  
Emergency Medicine (EM)

**SC1-4HS \***  
Wide angle high density  
single crystal  
Abdomen, OB/GYN,  
Emergency Medicine (EM)

## Volume Convex



**SVC1-6H**  
High density single crystal  
volume  
Abdomen, OB/GYN,  
Emergency Medicine (EM)

## Linear



**L8-17X \***  
Extreme high density,  
58.2mm wide aperture  
Breast, Musculoskeletal (MSK),  
Emergency Medicine (EM),  
Small Parts

**L3-12X \***  
Extreme high density,  
58.2mm wide aperture  
Breast, Musculoskeletal (MSK),  
Emergency Medicine (EM),  
Small Parts

**L3-12H \***  
High density  
Breast, Musculoskeletal (MSK),  
Emergency Medicine (EM),  
Vascular, Small Parts

**L3-8H \***  
High density low frequency  
Vascular, Breast, Musculoskeletal  
(MSK), Emergency Medicine  
(EM), Small Parts, Appendix

**IO8-17**  
High frequency hockey stick  
Small Parts (Superficial),  
Musculoskeletal (MSK)

## Endocavity



**EV3-10X \***  
Extreme high density  
OB/GYN, Urology,  
Emergency Medicine (EM)

**EC3-10X \***  
Extreme high density  
OB/GYN, Urology,  
Emergency Medicine (EM)

**VE3-10H \***  
High density volume  
endocavity  
OB/GYN, Urology

## Phased Array



**MP1-5X**  
Multi-active layer  
Abdomen, Cardiac,  
Emergency Medicine (EM)

**SP3-8**  
Single crystal  
Abdomen, Cardiac,  
Emergency Medicine (EM)

# The confidence of system

We are committed to prioritize our customers who continue their efforts in swift and accurate diagnosis in every-day medical practices. Our major efforts include keeping high performance system up to date; pursuing product design with high durability in multiple times of examinations; and aiming simplicity in software to ensure usability. Further, we have been developing a variety of accessible service tools to offer customers speedy product services. Alpinion will value trust from customers and further, continue its commitment to paying close attention to voice of customers to develop and offer reliable products.



## Convenient System Update

With Alpinion's unique imaging platform, FL-eXcan™ Pro Architecture, consistency in image quality and convenience in system upgrade have been made possible throughout entire product life cycle. All core elements of the diagnostic ultrasound system are software-base that customers are able to keep their system up to date with easy and speedy upgrades.

## Smart Data Protection

E-CUBE 15 Platinum can store and protect patient information with its patient lock function. With the function, patient information can be protected against the accidental deletion. As users are able to manage patient information while diagnosis mode is on, E-CUBE 15 Platinum can protect important information against batch edit and/or deletion.

## High Quality Transducers

Alpinion has developed its own transducers to manufacture in its own facilities. Ergonomically designed products use lightweight and flexible cables to reduce fatigue of users. Durable connectors and sturdy exterior materials are designed to assure convenience and durability in any environment. Furthermore, Alpinion operates its own maintenance and warranty service teams for prompt response to customers' request.