



**Innovation Meets Portability**  
*Indeed*

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**ALPINION MEDICAL SYSTEMS**  
We are Ultrasound Professionals

## E-CUBE i7, the next step in confident diagnosis with excellent imaging performance



### The innovative portable system

The advantages of a cart-based system made the innovative portable system, E-CUBE i7. To overcome the shortcomings in image quality of a portable system, ALPINION built E-CUBE i7 around a cart-based system's architecture. Thanks to this powerful and stable architecture, E-CUBE i7 delivers remarkably excellent and uniform image performance throughout its lifetime.



# High-performance with clinical versatility



## Imaging Technologies

- Advanced Spatial Compounding Imaging (SCI)
- Harmonic Imaging (FTHI/PITHI)
- Speckle Reduction Imaging (SRI)
- 3D/4D Volume rendering
- Live HQ™
- Tissue Doppler Imaging

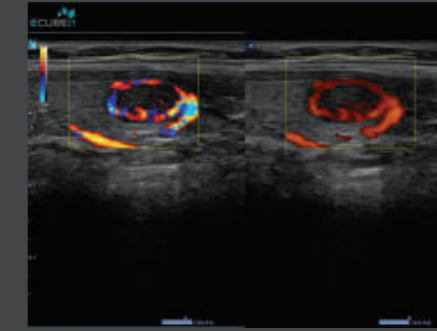
## Software Technologies

- Needle Vision™
- Xpeed™ (Auto Image Optimization)
- Auto IMT measurement
- CW (Continuous Wave)
- Panoramic Imaging
- Stress Echo
- CUBE View™

## Clinical Image



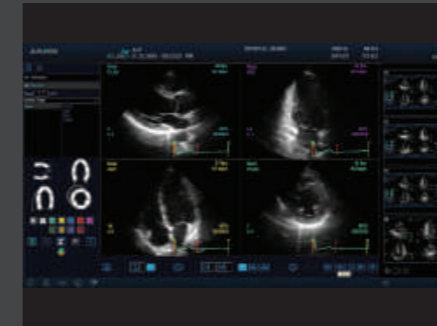
Renal Perfusion in Power Doppler



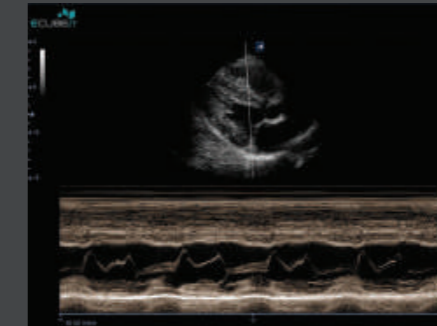
Thyroid nodule in Live Dual mode



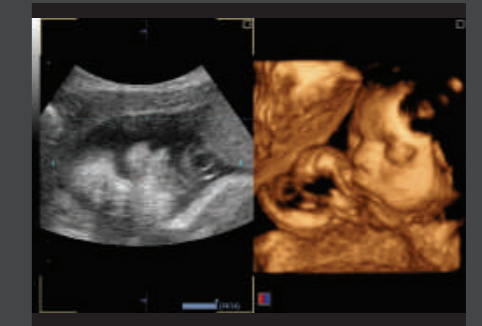
Internal Jugular vein injection with Needle Vision™ Plus



Stress Echo



Mitral valve in M-mode



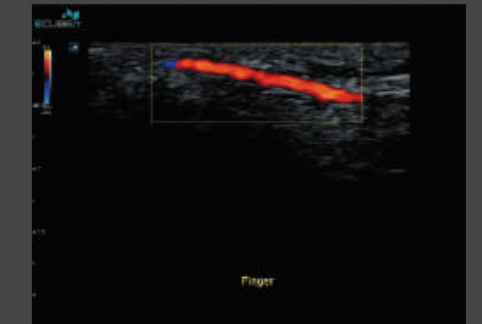
4D Volume Rendering



Uterus with FullSRI™ and SCI



Elbow joint injection



Vessel of the finger in Color Flow

# E-CUBE i7 fulfills your long awaited need for high quality imaging

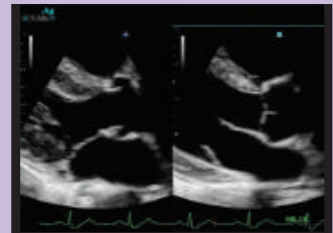
## Crystal Signature™: High class single crystal transducer technology

Single crystal is a new kind of piezoelectric material which shows superior image quality. Crystal Signature™, ALPINION's world leading single crystal technology, provides higher sensitivity, better penetration, and less heat degradation than traditional PZT materials. With its single crystal phased array transducers (SP1-5T, SP3-8T), E-CUBE i7 fully supports various diagnosis including adult echo, pediatric echo, and pediatric abdomen.

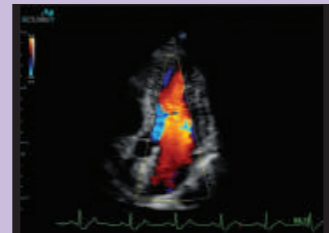


Single crystal material exhibits fewer poling variation

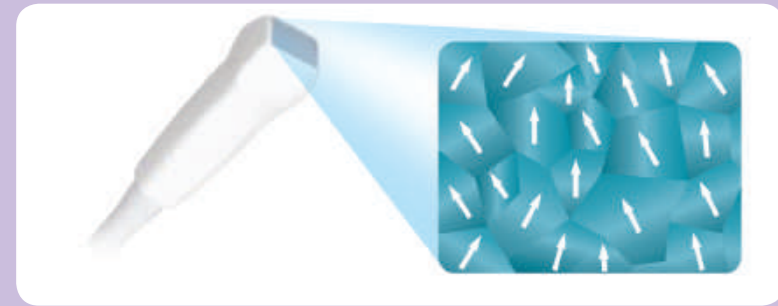
- Increased bandwidth
- Better signal to noise ratio (SNR)
- Improved axial resolution and penetration



Enhanced contrast resolution



Excellent spatial sensitivity



The traditional PZT technology - The variations of polarization in PZT affect its piezoelectric properties and signal to noise ratio(SNR)

## Transducer Guide

### Convex



C1-6T

### Linear



L3-12T



L8-17H



L3-12H<sup>WD</sup>



L3-8H



IO3-12



IO8-17T

### Microconvex



C5-8NT

### Phased Array



SP1-5T



SP3-8T

### Endocavity



EV3-10T



EC3-10T

### Pencil



CW2



CW5

### Volume



VC1-6T

## High-frequency enhanced linear transducer

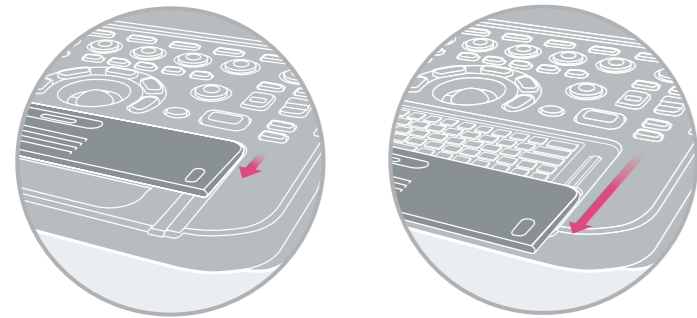
E-CUBE i7 features a high-frequency linear transducer, the hockey stick-shaped IO8-17T. IO8-17T is ideal for imaging for superficial, nerve blocks, and vascular procedures. IO8-17T's small footprint allows easier access to tight spots and its excellent resolution in the near field provides extremely detailed anatomical information for your patients.



Intra jugular vein injection with Needle Vision™ Plus

## Portable, **time to slide**

Experience the slide.  
Enjoy the comfort.  
Believe in the innovation.



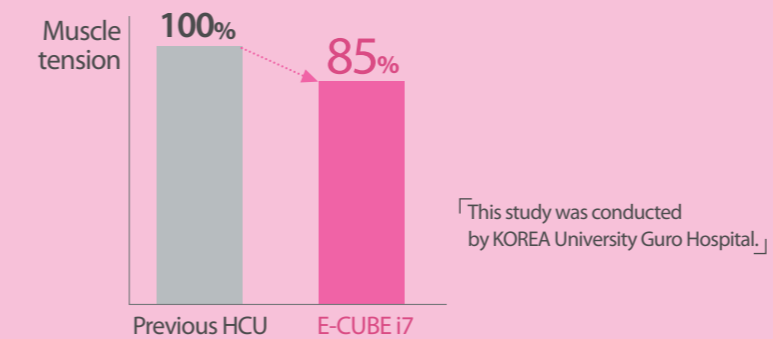
E-CUBE i7's sliding keyboard cover provides a solution for sonographers who suffer the inevitable wrist pain from long hours of scanning operation. By making small changes, the E-CUBE i7 grants huge benefits. The location of keyboard is closer to user, allowing better support for the arms and wrists, thus reducing wrist pain from unnatural and awkward postures.

The innovative sliding cover supports the wrist at the right angle for a healthy wrist, improves the sonographer's comfort when operating the trackball, and prevents the keyboard from being polluted by dust, gel, fluid, or blood.



## The innovative E-CUBE i7 rewrites the history of ergonomic design for portable ultrasound systems.

Ergonomics you have never seen before.  
E-CUBE i7, the world first portable ultrasound system with a sliding keyboard cover



Specific work postures involving the repetitive movement of the joints can lead to an increase in the frequency and severity of repetitive musculoskeletal injuries. Sonographers are at the risk as a result of the posture of their hands, wrists, elbows, shoulders, neck, and upper back.



Previous HCU



E-CUBE i7



Previous HCU



E-CUBE i7

Reinvents **point-of-care**.  
Meets the need for **on-the-spot**.  
Extends diagnostic **dynamics**.



#### Speed

The embedded SSD not only enhance E-CUBE i7's operational speed, but also its stability. From boot-up to initializing a scan, the time is less than 60 seconds.



#### Efficiency

E-CUBE i7's extended transducer connection, supporting up to three transducers, enabling you to be ready for various applications.



#### Advanced 3D/4D technology

ALPINION's intuitive 3D/4D software offers fast rendering speed and outstanding rendering quality for diagnosis.



#### Complete cardiac solution

The system supports complete cardiac solutions enabling the flexibility to scan adult and pediatric patients with single crystal phased array transducers and ECG module.



## Innovation Meets **Portability**, *Indeed*

