



  
**ECUBE***i7*

**Innovation Meets Portability.**  
Indeed.

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



## The innovative portable system

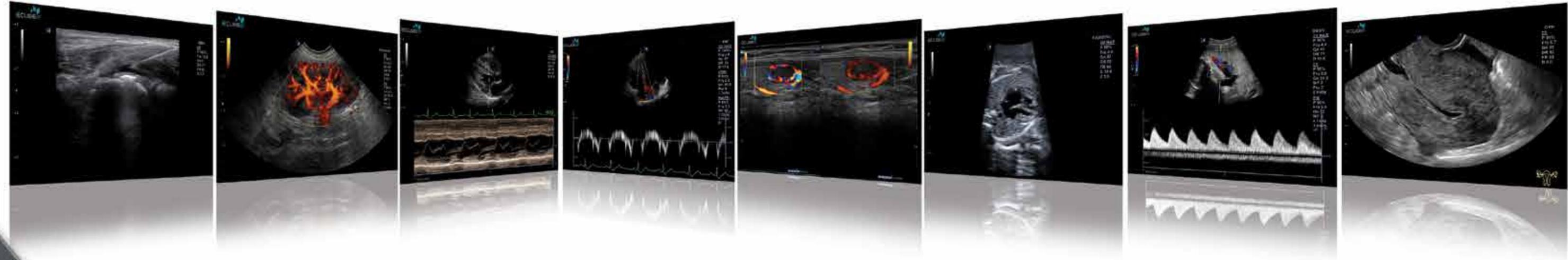
The advantages of a cart-based system made the innovative portable system, E-CUBE i7. To overcome the shortcomings in image quality of a portable system, ALPINION built the E-CUBE i7 around a cart-based system's architecture. Thanks to this powerful and stable architecture, the E-CUBE i7 delivers remarkably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



# High-performance with **Clinical versatility**



- Elbow joint injection
- Renal perfusion in power Doppler
- Mitral Valve M-mode
- Tissue Doppler Imaging
- Thyroid nodule in Live Dual mode
- Fetal echo with FullSRI and FTHI
- Umbilical Artery Doppler
- Uterus with FullSRI and SCI



## Transducer Guide

- 1 IO8-17T
- 2 C5-8NT
- 3 SP1-5T
- 4 SP3-8T
- 5 L3-12T
- 6 C1-6T
- 7 EC3-10T
- 8 EV3-10T

### Imaging Technologies

- Advanced Spatial Compounding Imaging (SCI)
- Harmonic Imaging (FTHI/PITHI)
- Speckle Reduction Imaging (SRI/FullSRI™)
- Tissue Doppler Imaging

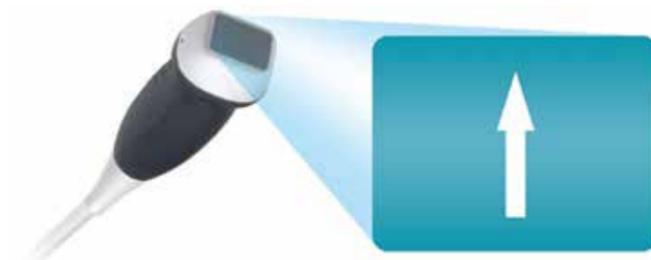
### Software Technologies

- Needle Vision™
- Xpeed™ (Auto Image Optimization)
- Auto IMT measurement
- CW
- Panoramic Imaging

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

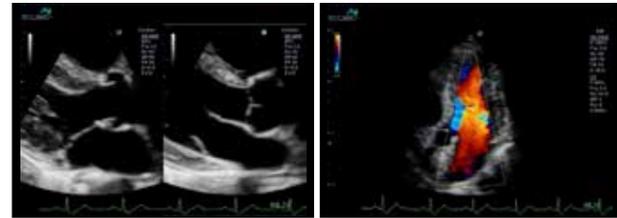
## Crystal Signature™ : High class single crystal transducer technology

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), the E-CUBE i7 fully supports various diagnosis including adult echo, pediatric echo, and pediatric abdomen.



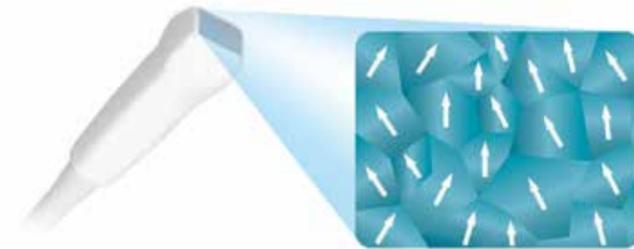
Single crystal material exhibits fewer poling variation

- Increased Bandwidth
- Better Signal to Noise Ratio
- Improved axial resolution and penetration

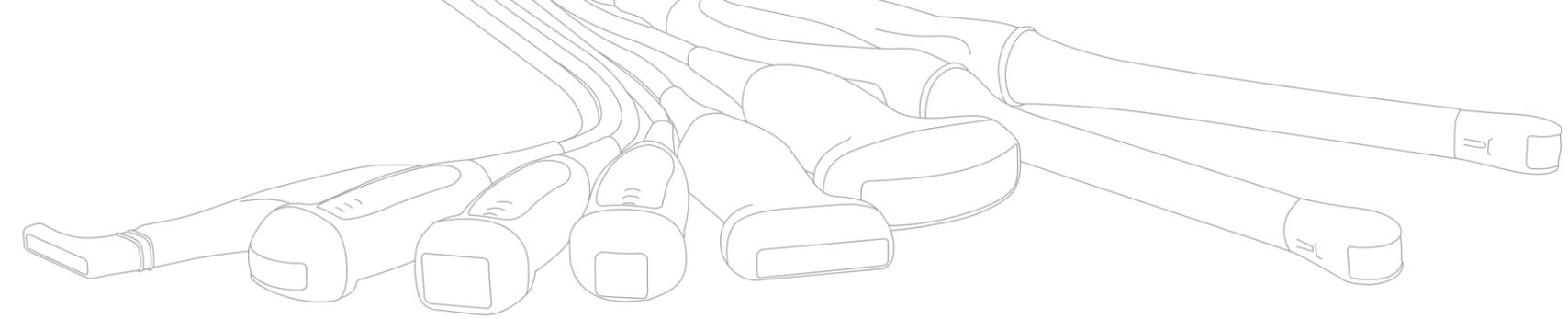


Enhanced contrast resolution

Excellent spatial sensitivity



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



## High-frequency enhanced linear transducer

The E-CUBE i7 features a high-frequency linear transducer, the hockey stick-shaped IO8-17T. The 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.



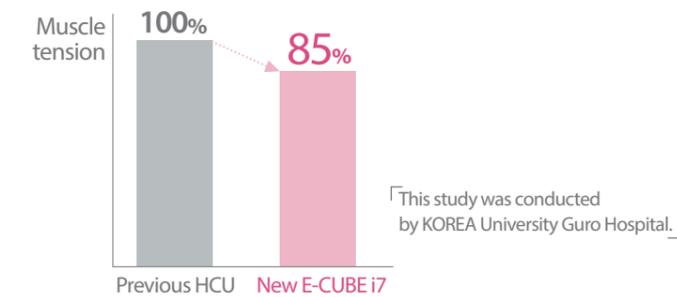
The E-CUBE i7's sliding keyboard cover provides a solution for sonographers who suffer the inevitable wrist pain from the long term operation of imaging platforms. By making small changes, the E-CUBE i7 grants huge benefits. The location of keyboard is closer to user, allowing better support for the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

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, and blood.



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

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



Specialized 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 enhances the 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

The E-CUBE i7's extended transducer connections up to three probes enables you to be ready for a range of scans carrying with different types of probes.



#### Optimal Clinical Environments

A full color backlit LED keyboard was designed with any clinical environmental setting. Also, with advantage of H/W design, the E-CUBE i7 is almost silent at 31dB when running, which is equivalent to the sound of a library.



#### Complete cardiac solution

The system supports a complete suite of cardiac solutions enabling the flexibility to scan a variety of patient body types from pediatrics to adult phased array transducers with ECG module.



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**ALPINION MEDICAL SYSTEMS**

Verdi Tower, 72, Digital-ro 26-gil, Guro-gu, Seoul, 08393, Korea

**Homepage** [www.alpinion.com](http://www.alpinion.com)

**E-mail** [international@alpinion.com](mailto:international@alpinion.com)

**TEL** +82-2-3282-0900

**FAX** +82-2-851-5591

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