

Defining Clarity, Delivering Confidence

# XCUBE 50



# Accelerate Precision of Diagnosis

The X-CUBE 50 ultrasound diagnostic device provides fast and comfortable examinations with high-quality images. The images, rich in clinical information, improve diagnostic accuracy throughout the entire process, from patient classification to comprehensive examinations.

## X<sup>+</sup> FIT

The sophisticated parallel beamforming technology X<sup>+</sup>FIT improves contrast and uniformity for excellent resolution by transmitting, receiving and processing a large amount of data. X<sup>+</sup>FIT promises high image quality for your patient care.

## Pulse Inversion Tissue Harmonic (PTHI)

The use of harmonic signal processing technology has minimized signal loss and improved the bandwidth of the signal transmitted from the transducer. This has led to a reduction in artifacts and enhancements in resolution, contrast, and SNR, allowing for a more detailed expression of lesions without distortion.

## Full SRI™

The powerful Speckle Reduction Imaging (SRI) feature allows adjustment of the SRI level based on image condition or mode, supported in 2D, 3D, and 4D modes.

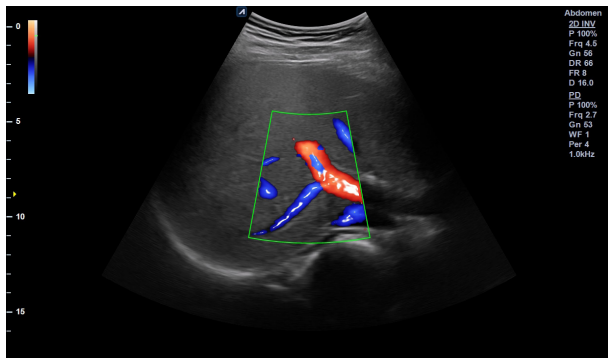
## Tissue Doppler Imaging (TDI)

TDI allows for measurements of tissue movement speed, typically performed on myocardium.

# Advanced Technology Enhances Your Confidence

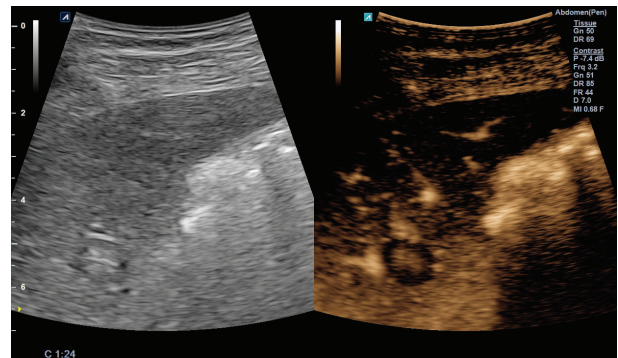
ALPINION provides professional tools for a variety of applications, delivering high-resolution images for accurate diagnosis. These tools can help healthcare professionals increase diagnostic confidence.

## General Imaging



## Brilliant Flow

It is a special visualization impact technology of blood flow. It provides the intuitive understanding of vessel structure and boundaries by images of blood vessels that look like 3D on a 2D gray scale image.



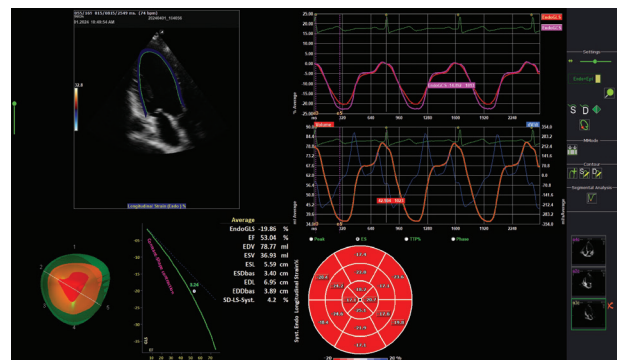
## Contrast Enhancement Ultrasound (CEUS)

This function diagnoses patients using various angiographic patterns that appear while a contrast medium is administered intravenously, diffusing in blood vessels and organ tissue. It is useful for diagnosing intrahepatic masses, examining liver tissue, and assessing the severity of liver fibrosis and portal hypertension.

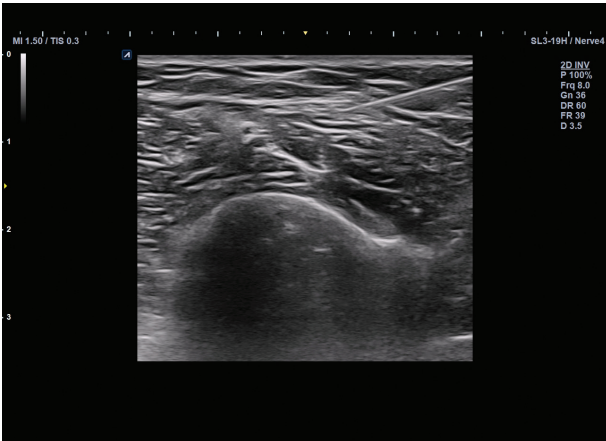


## Echo Package : Auto EF, CUBE Strain™

It is a non-invasive test method that automatically analyzes the end-diastolic volume (EDV), end-systolic volume (ESV), and ejection fraction (EF), providing a more objective evaluation of myocardial function. Additionally, it quantifies data by tracking speckles in 2D heart images to assess myocardial movement.

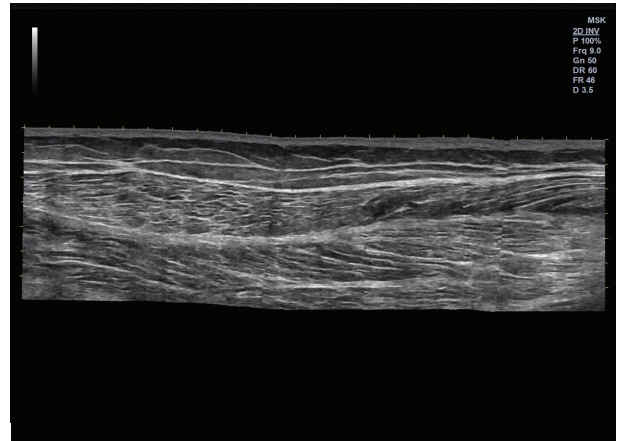


## Musculoskeletal / Vascular



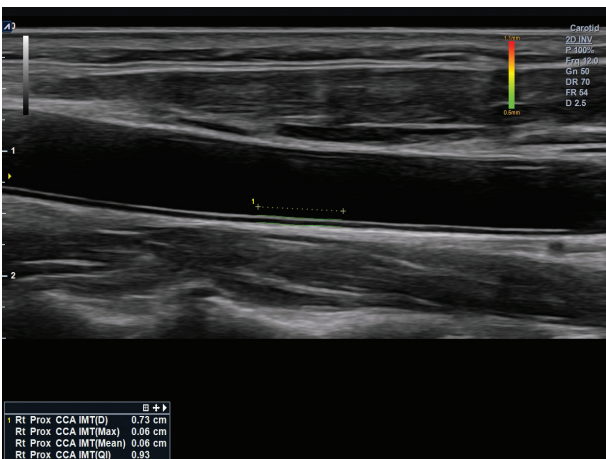
### Needle Vision™ Plus

This function is useful for clearly displaying the shape and direction of the needle during invasive testing, employing beam steering technology.



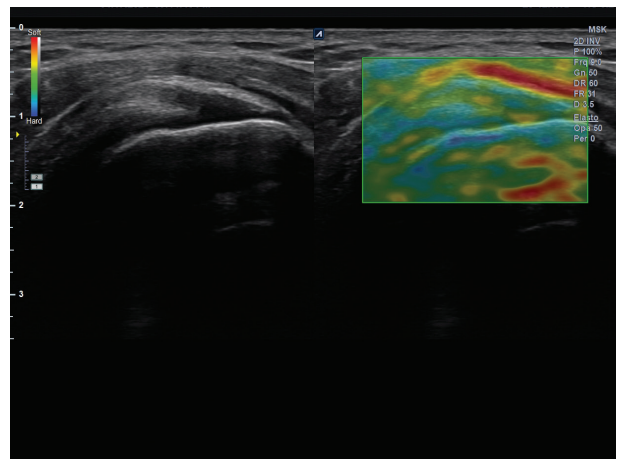
### Panoramic

Panoramic imaging enables observation of extremely wide horizontal images.



### Auto IMT

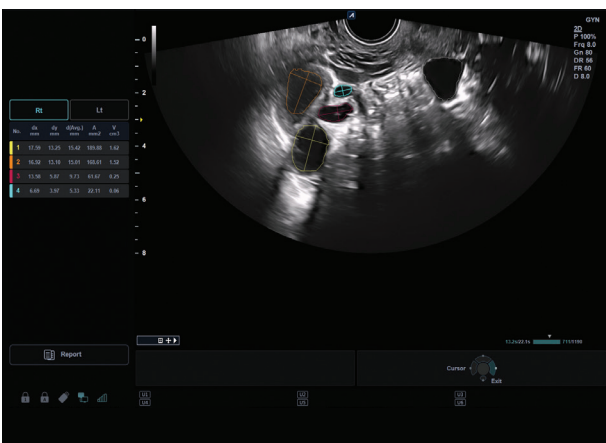
The thickness of the carotid artery intima-media can be accurately and quickly measured down to the millimeter unit, regardless of the user's skill level.



### Strain Elastography

Elastic ultrasound imaging is an ultrasound imaging technique that levels relative elasticity of tissues against external pressure. It provides additional pathological information, helping to reduce unnecessary biopsies.

## Obstetrics/Gynaecology (OB/GYN)



### Auto Follicle

To measure superovulation, this technology counts the number of follicles and measures the volume automatically.



### Live HQ™

The improved volume rendering technology allows for the free movement of light direction and supports various color maps.

# Intelligent Tools for Easier Workflow



## X<sup>+</sup> Assistant

Keystrokes have been reduced by more than 50% compared to conventional methods, thereby reducing examination time. Optimal scanning protocols are registered based on application-specific guidelines, allowing users to personalize and optimize protocols.



## Power Preset

Users can load a system preset saved in advance with a single button click. By using these quick and easy presets, users can shorten the imaging set up time.



## X<sup>+</sup> Compare

Users can import previously acquired videos from a PACS or hard disk and compare them with the current videos in real-time scan, which is a key feature to optimize patient care.

\* X<sup>+</sup> Compare supports ultrasound studies only



## Xspeed™

Simply press the Xspeed™ button once to quickly optimize images in 2D Mode and Spectrum Doppler Mode. Detect, predict, and adjust the Dynamic range level in real-time.



## X<sup>+</sup> Auto Biometry

When measuring fetal EFW, Auto Biometry detects fetal HC, BPD, FL, AC, and Humerus, and automatically measures their lengths.



## USB Real-time recording

USB real-time recording simplifies data transfer by enabling users to record ultrasound scan images directly onto USB memory in real time. Videos are captured in high-definition and quickly stored in the system.



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# XCUBE 50

# Designed To Make Your Daily Practice Easier

Our design prioritizes operator comfort through ergonomic considerations, while its compact form enhances flexibility in healthcare settings.

## Compact Design



Digital Keyboard, TGC



Foot, Wrist rest



One palm control panel



320° Articulating monitor arm



Gel warmer with adjustable angle



Slide Keyboard

## Product specification



21.5" Monitor, 12.1" Touch Screen



4 Transducer Connectors



215mm Height Adjustment Control Panel



4 swivel wheels (3 with brake lock)



Size : 560 x 780 x 1,310-1,670(W x D x H)



Weight : 70 kg



Battery(Optional) : Max. 22hours (in Sleep mode)



Gel warmer: 3-level temperature control

\*Options are available for separate purchases. For details, kindly contact our local distributor.

# Transducers

Developed and manufactured by **ALPINION**

\* A biopsy kit is available

## Convex



### SC1-7H \*

X<sup>+</sup> Crystal Signature™  
High Density Single Crystal  
Abdominal, Obstetrics, GYN, Urology,  
Musculoskeletal(MSK), Pediatric



### C1-6CT \*

C-Architecture  
(PowerView™) Convex  
Abdominal, Obstetrics, GYN, Urology,  
Musculoskeletal(MSK), Pediatric



### SC2-11H

X<sup>+</sup> Crystal Signature™  
High Density Single Crystal  
Microconvex  
Abdominal, Echocardiography,  
Pediatric, Neonatal



### C5-8NT

Micro Convex  
Abdominal, Echocardiography,  
Pediatric, Neonatal



### SVC1-8H

Single Crystal Volume Convex  
Abdominal, Obstetrics, GYN

## Linear



### L3-15H \*

High Density Linear  
40mm FOV  
Abdominal, Vascular, Small parts,  
Musculoskeletal(MSK), Pediatric



### L3-12HWD

High Density Linear,  
60mm wide FOV  
Abdominal, Vascular, Small parts,  
Musculoskeletal(MSK)



### L3-12T \*

Linear  
Abdominal, Vascular, Small parts,  
Musculoskeletal(MSK), Pediatric



### L3-8H \*

High Density Low Frequency  
Linear  
40mm FOV  
Abdominal, Vascular,  
Musculoskeletal(MSK), Pediatric



### IO7-18

High Frequency Hockey Stick  
Vascular, Musculoskeletal(MSK)

## Endocavity



### EC3-10T \*

Endocavity (straight)  
Obstetrics, GYN, Urology



### EV3-10T \*

Endocavity (curved)  
Obstetrics, GYN, Urology



### VE3-10H \*

High Density Volume Endocavity  
Obstetrics, GYN, Urology



### P1-5CT

Single Crystal Phased Array  
Abdominal, Echocardiography,  
Vascular



### SP3-8T

Single Crystal Phased Array  
Abdominal, Echocardiography

## Pencil



### CW2.0

Pencil Typed  
Echocardiography



### CW5.0

Pencil Typed  
Echocardiography



### CW8.0

Pencil Typed  
Echocardiography

## TEE



### TEE3-7

TEE  
Echocardiography

## ALPINION MEDICAL SYSTEMS

15 Magokjungang 14-ro, Gangseo-gu, Seoul, Republic of Korea

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

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

TEL +82-2-3777-8600

FAX +82-2-3777-8691

Some clinical images were enlarged and edited to make the pathological content more visible.

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