



XCUBE 90

eXtensive Insight eXpanded Capability eXceptional Care

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Infinite Insight XCUBE 90



ALPINION MEDICAL SYSTEMSWe are Ultrasound Professionals





Exceptional value in your patient care

X-CUBE offers the highest level of efficiency and insight for healthcare providers, enabling you to utilize clear and detailed image and a comfortable user interface.

X-CUBE 90 reflects the needs of fields that require quick and accurate diagnosis. With ALPINION's amassed image processing technology and the latest diagnostic solution, more precise diagnosis and quicker decision are now possible. Improve the quality of your diagnosis with X-CUBE 90.

ALPINION is a professional ultrasound value innovator that manufactures and supplies full systems, including transducers, diagnostic and therapeutic ultrasounds, based on its own advanced technology. X-CUBE 90 is a newly created premium diagnostic system developed with ALPINION's state-of-the-art technology. It integrates a one-probe solution with high-resolution and wideband, a seamless transducer and X⁺ FIT, which is an imaging technology. ALPINION is working closely with healthcare providers and patients to develop advanced, optimized technologies by reflecting their needs to improve the quality of human life while adapting and responding to the changes in the today's challenging environment.

Powered by X Architecture

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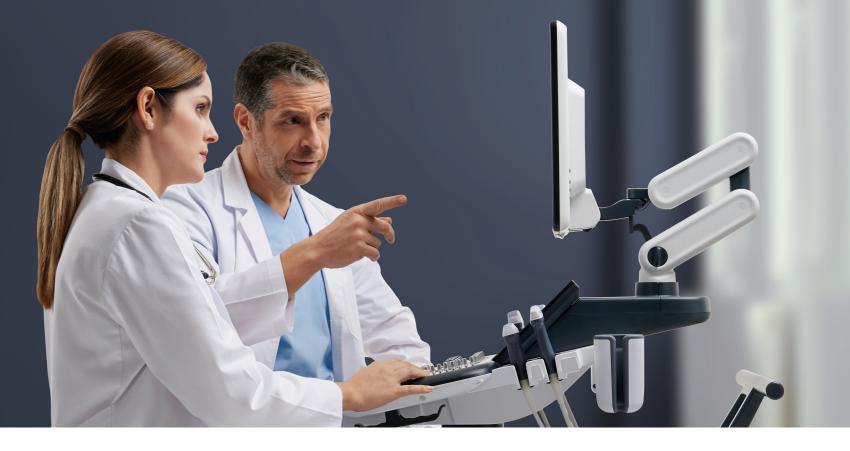
eXtensive Insight

Powered by X⁺ Architecture

X⁺ Architecture is a premium imaging platform created by combining

- X⁺ Crystal signature[™], the transducer technology with high sensitivity, wideband, and
- X⁺ FIT, ALPINION's cutting edge beamforming and data processing technology.
- X⁺ FIT is a new technology that transmits ultrasound beam width sharply, receives a large volume of data and processes it at a high speed.

In addition, X⁺ Crystal signature[™] applies a single crystal and our own special material in the transducer to achieve excellent clarity to extend insight.



X⁺ Architecture



Spatial Resolution ↑

X⁺ FIT's beamforming technology based on X10 data transmission speed X14 data processing speed



Frame rate ↑

X⁺ FIT's multi-beam receiving technology



Sensitivity ↑, Penetration ↑

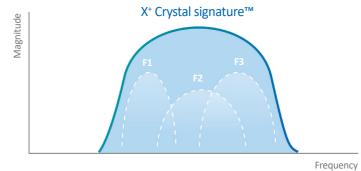
X⁺ Crystal Signature technology applied new Single crystal and Special materials

* Compared to our previous model (E-CUBE 15 Platinum)

X⁺ Crystal signature[™]



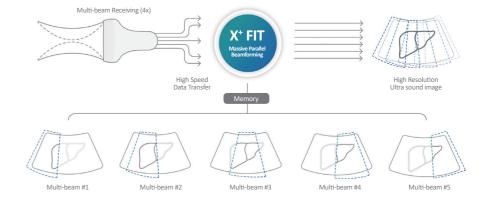
Upgraded single crystal and a special material matching layer and backing material allow heat dissipation and minimalize signal loss. ALPINION's signature transducer technology allows you to experience insightly clear image quality with high sensitivity and wideband, which shows significant improvements in image resolution, contrast, and uniformity. ALPINION develops and manufactures its own transducers, the key to ultrasound imaging.





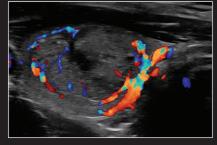
X⁺ FIT

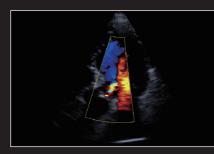
X⁺ FIT is a beamforming technology which improves resolution, frame rate, and uniformity. X⁺ FIT utilizes massive parallel beamforming whose architecture is capable of transmitting 4 times larger volume with 10 times faster capacity and also processing data 14 times faster than our previous model (E-CUBE 15 Platinum). X-CUBE 90's high resolution imaging is a prerequisite for accurate diagnoses and quick decision-making.



eXtensive Insight Powered by X⁺ Architecture







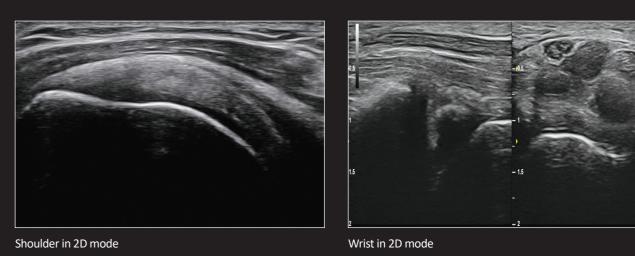
X-CUBE 90 I 5 Infinite Insight

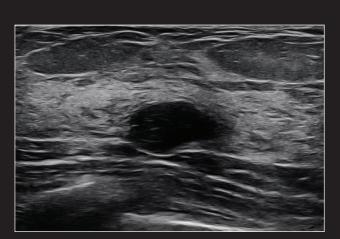
Powered by X⁺ Architecture

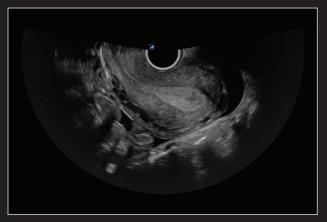


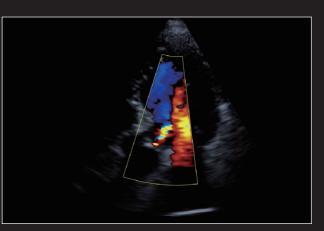


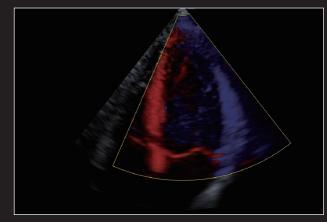












Breast nodule in 2D mode

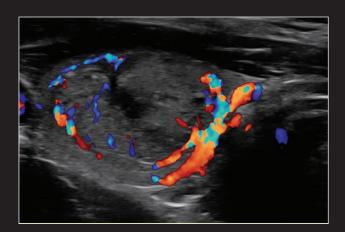
Kidney in Live Dual

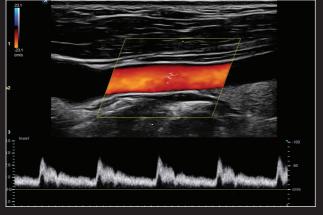
Uterus in 2D mode

Liver in CF mode

Cardiac in CF mode

4 chamber view in TDI mode









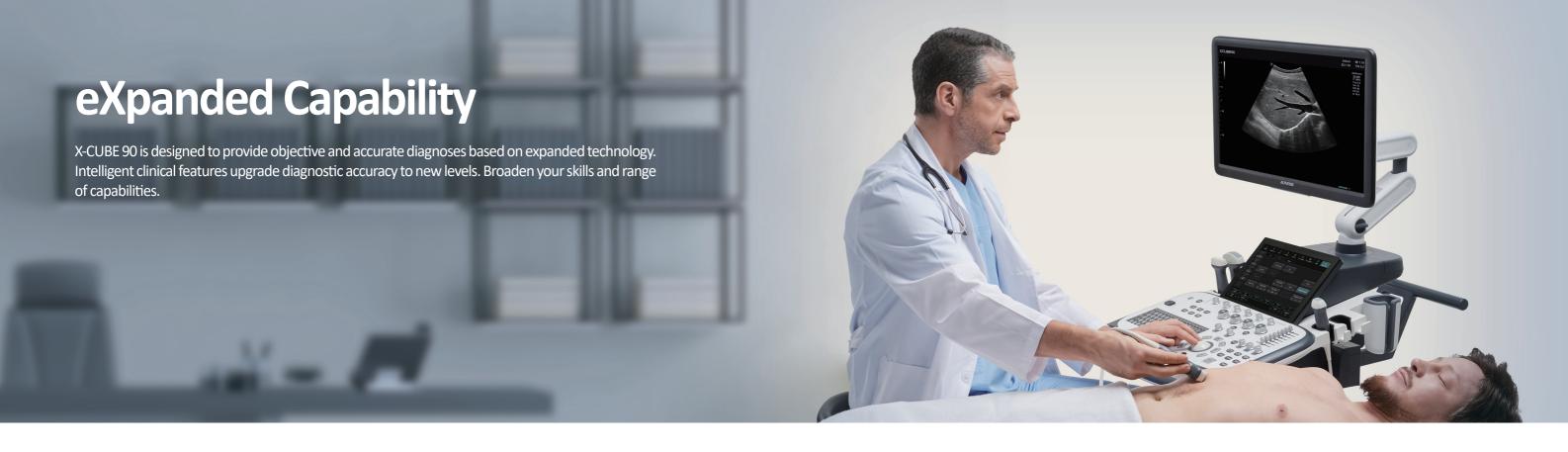
Thyroid nodule in CF mode

Carotid artery in PW mode

Fetal spine with Max mode

Fetus face at 29 weeks in 2D mode

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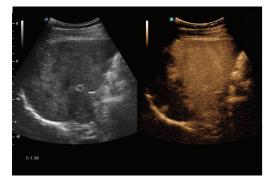
X⁺ MicroView

 X^{+} MicroView is the vascular imaging mode which displays micro blood flow. Users can observe the low-speed blood flow of tiny blood vessel. With this technology, low-speed blood flow areas which users previously couldn't see on Color Doppler are shown at the fast frame rate.



X⁺ pSWE

Point Shear Wave Elastography shows objective quantified stiffness of tissue using the radiation force from a focused ultrasound beam. Users can identify significant liver fibrosis non-invasively, so it reduces unnecessary biopsies and increases patient satisfaction. Especially X⁺pSWE ensures the highest reliability of measured results by displaying the Reliability Index.



CEUS (Contrast Enhancement Ultrasound)

This is a function to diagnose patients using various angiographic patterns that appear while a contrast medium, administered intravenously, diffuses in blood vessels and organ tissue. CEUS has many advantages in various clinical indications for liver disease.



Silhouette Imaging

This new technology provides silhouette outlines of the human fetus and other structures clearly. By using Live HQ technology with a shadowing effect, Silhouette imaging technology allows to delineate the outlines of structures behind the directly visualized structure.



3D Speckle Reduction Imaging (SRI)



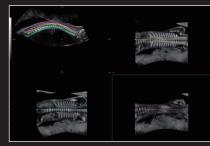
Depth View



Live H



Clear Face



AnvSlice™



Multi Slice View

A A

eXceptional Care

The detailed work process designed by X-CUBE 90 cares beyond realizing a more efficient working environment for medical professionals. Intuitive directions improve efficiency for medical professionals, and the transducer design provides comfort for the patient, thereby improving the quality of diagnoses.



Reinforce durability with seamless transducer (SL3-19H)

The seamless transducer increases durability by using a special material, rather than rubber, which can be easily parted or damaged by contact with syringe needles, and also improved cleanliness with an all-in-one type mold.



10–25 MHz high resolution transducer (L10-25H)

Ultra-high frequency linear transducer, L10-15H, allows superficial regions such as small saphenous vein and peroneal nerve to be displayed more clearly and accurately.



Comfortable grip (SVC1-8H)

The lighter, more compact single crystal volume convex transducer features an improved grip thanks to an ergonomic design, and thereby increases user convenience.

* Compared to the transducer SVC1-6H, 20% lighter and 23% smaller



Patient FIT transducer (EV/EC2-11H)

Minimizes patient discomfort during diagnoses with 36% smaller tip. Provides optimal care based on patient convenience

* Compared to the transducer of previous ALPINIOIN endocavity

X⁺ Assistant

X* Assistant enables users to reduce keystrokes by at least 50% and save time when conducting examinations. Registered optimal scan protocols that follow guidelines that each application requires help to reduce operator's fatigue and increase efficiency in operation. In addition, it is also possible to register applications and protocols optimized.

X⁺ Compare

This is a feature that allows users to import patients' previous study from a PACS server or hard disk and compare when scanning and reviewing. By comparing previous images of the same region, users can easily observe the patient's progress, thereby making this feature useful for providing patient care. X⁺ Compare can be used not only in scan mode, but in review mode (E-View) as well.

* X⁺ Compare supports ultrasound studies only.

X⁺ Auto Biometry

When measuring Estimated Fetal Weight(EFW), the smart recognition algorithm allows you to automatically identify a structure of interest and measure fetal head circumference (HC), biparietal diameter (BPD), femur length (FL), abdominal circumference (AC) and Humerus. This feature boasts a examination speed and a high accuracy.

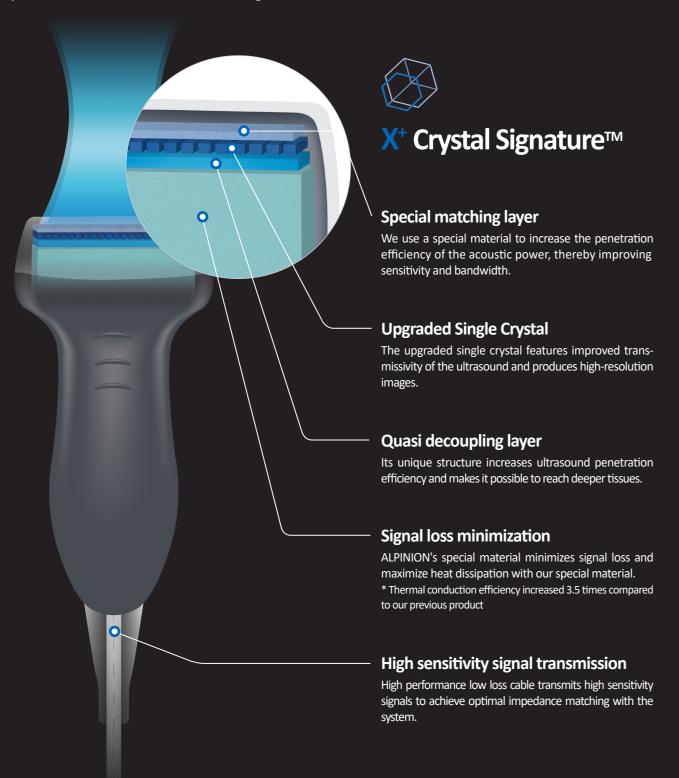
USB Real-time recording

USB real-time recording makes data storage easier by allowing users to record ultrasound scan images on USB memory in real time. Videos are recorded as high-definition and stored in system quickly.



ALPINON'sTransducer Technology

The key to transducer technology is its process of generating a high sensitivity and wideband acoustic signal and receiving it without any loss, then converting it to a digital signal. ALPINION MEDICAL SYSTEMS has researched and developed the core technology of transducers and X⁺ Crystal Signature™ is the accomplishment of all the innovative technologies we've accumulated.



Transducers Developed and manufactured by ALPINION

Convex







Volume Convex



SVC1-8H New

Single Crystal Volume Convex
Abdomen, Gynecology,
Obstetrics, Pediatric, Urology, EM

Linear







L10-25H New
Wideband Ultra High Freq. Linear

EM, MSK, Vascular, Small Parts



Extreme Hgh Density Linear Pediatric, EM, MSK, Vascular,

L3-12X

Small Parts

Endocavity



EC2-11H New

B

EV2-11H New

X⁺ Crystal Signature™



VE3-10H New
Volume Endocavity
Gynecology, Obstetrics, Urology, EM

Phased Array



MP1-5X New





CW2.0
Pencil Typed

Intuitive design for your daily practice





23 inch FHD LED Screen

Enjoy a larger widescreen and clear, highdefinition images.



Compact Size & Weight

Its compact size and light weight measuring 85 kg provides great mobility.



Motorized Control Panel

The control panel can be easily adjusted vertically with its motorized button.





Thanks to the 4 swivel wheels, the system As its automatic virus scanning function can be moved around with a little effort is activated whenever the system boots, and can be operated comfortably in any patients' information is more securely pro-



Antivirus Solution

12.1 inch tilting LCD color touch panel

We've combined angle adjustment functionality with its larger, full-color touch panel to

Time saving solution

The built-in battery guarantees mobility while it is in use and Sleep mode helps the system boot up faster.

5 Transducer Ports

You can use a variety of transducers as required with no need to replace them, and thus saving time during conducting diagnosis.



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