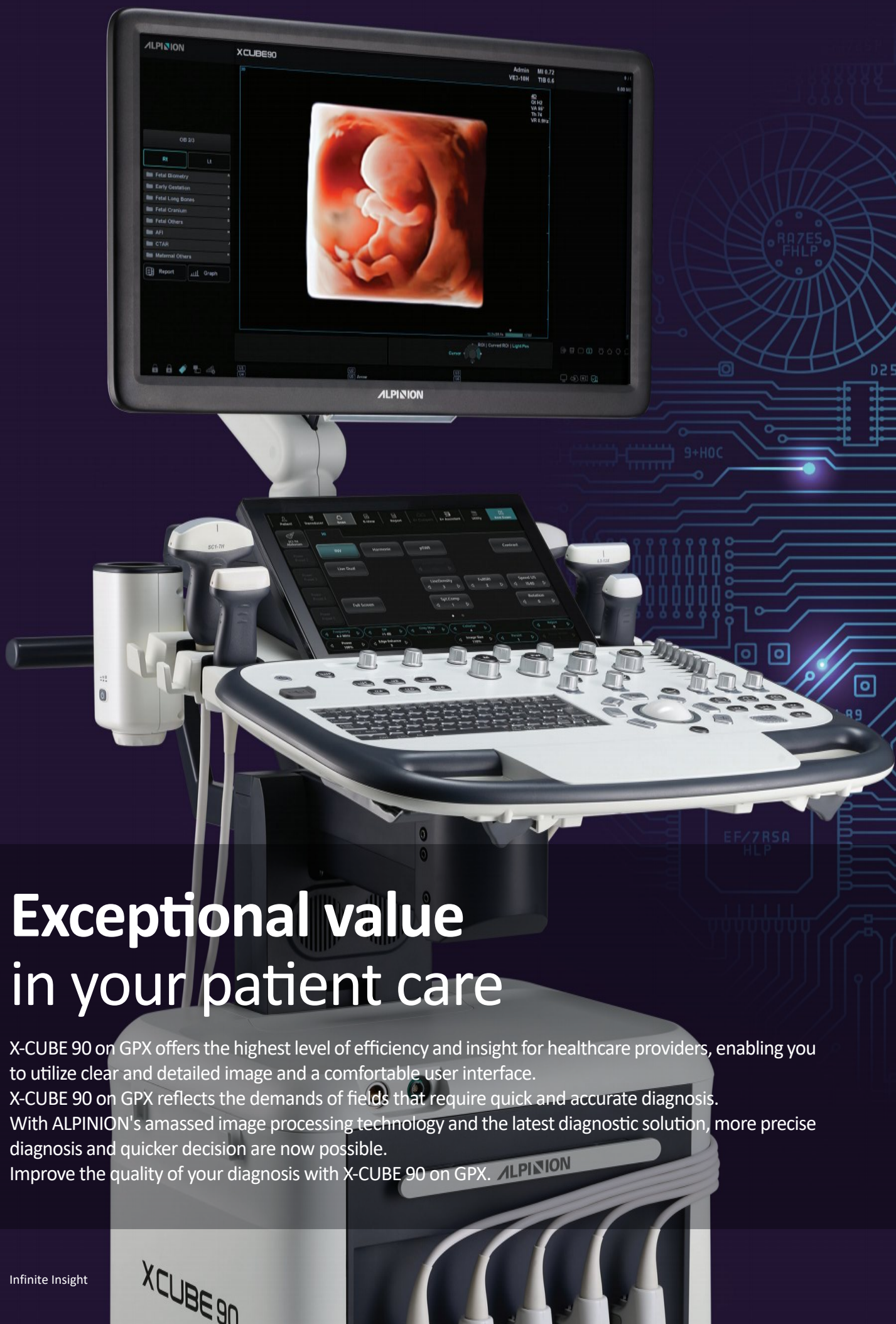ALPI∧ION
MEDICAL SYSTEMS

Infinite Insight
XCUBE 90 on GPX

ALPINION MEDICAL SYSTEMS
We are Ultrasound Professionals

Exceptional value
in your patient care

X-CUBE 90 on GPX 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 on GPX reflects the demands 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 on GPX.

# Powerful Hybrid Engine Reinforces X⁺ Architecture

Powerful Hybrid Engine

Reinforces X^+ Architecture

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.
The X-CUBE 90 on GPX has undergone a comprehensive system upgrade that integrates
advanced image processing technology X$^+$ Focus.
X$^+$ Focus reduces noise and artifacts to provide excellent contrast resolution delicately.
The most important factor for accurate and confident diagnosis is image quality.
X$^+$ Architecture supports your expertise.

X$^+$ FIT

X$^+$ Architecture

X$^+$ Crystal Signature
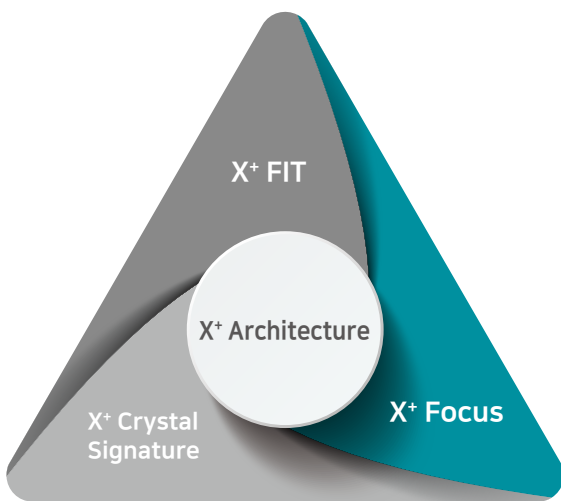
X$^+$ Focus

X$^+$ Crystal Signature transducers generate high sensitive, wide-band signals

X$^+$ FIT, high performance beamforming engine to generate high-resolution images from massive scan data

+

X$^+$ Focus, advanced image processing technology provides clearer images in a wide range of different diseases

Resolution   Penetration   Uniformity

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$^+$ Crystal signature™

Magnitude

F1   F2   F3

Frequency
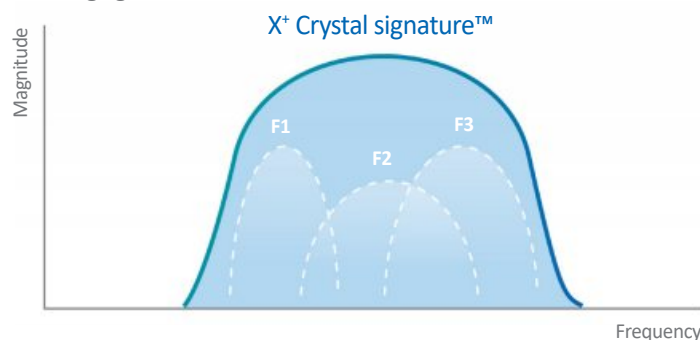
X⁺ FIT

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 on GPX's high resolution imaging is a prerequisite for accurate diagnoses and quick decision-making.
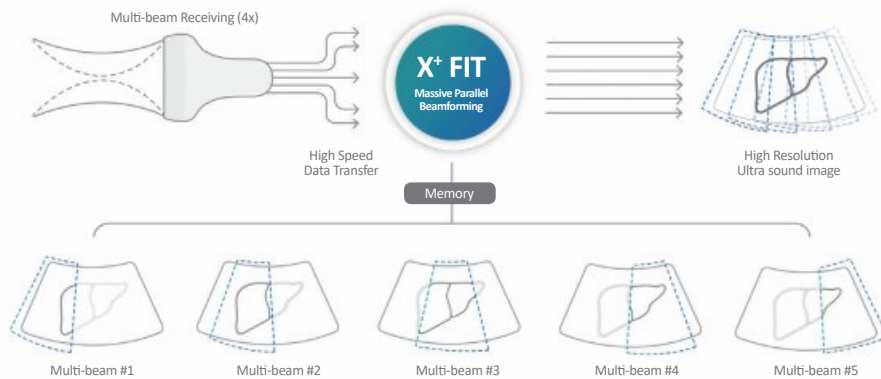
X⁺ Focus

X⁺ Focus is new image processing technology that displays a clearer image with massive scan data. It realizes optimal image quality by enhancing true clinical information and suppressing unnecessary noise and other artifacts from rich scan data. In particular, X⁺ Focus contributes to accurate diagnosis by providing adequate information, well-defined border, sharp contrast, and rich gray-scale without compromising on maintained tissue information for diagnosis.

UNPROCEED   PROCEED
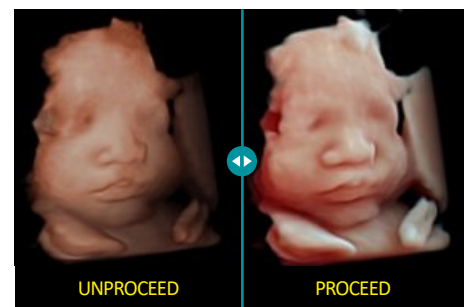
Powered by X⁺ Architecture
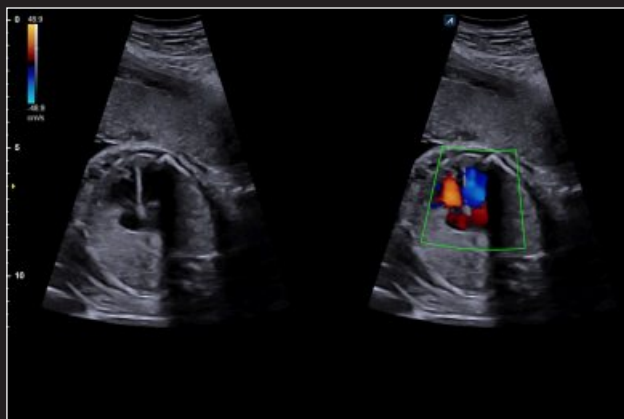

Fetal profile

3D Fetal face

Fetal heart in aortic arch view

Fetal brain
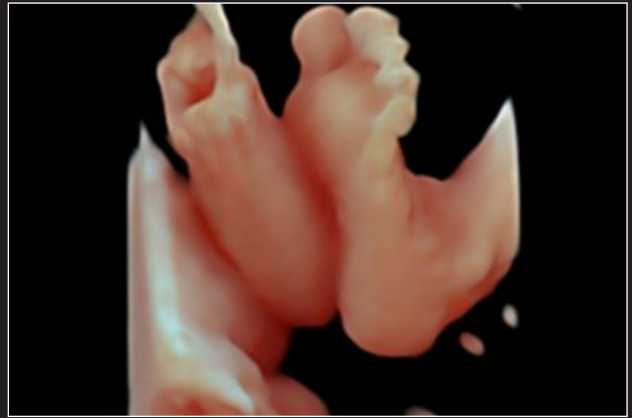

Fetal heart with color

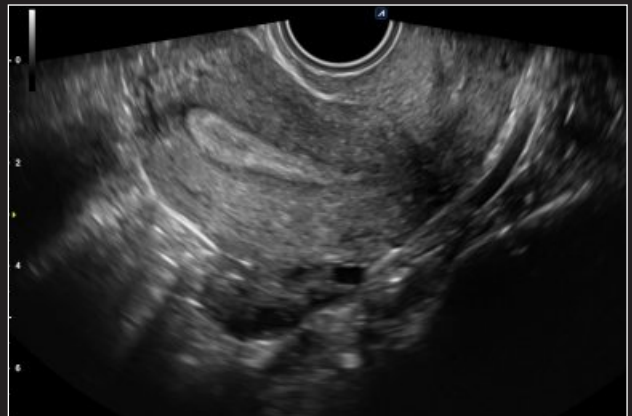Fetal heart in four chamber view 2D

Live HQ™ Fetal hands

Live HQ™ Fetal foots

Live HQ™ 1st trimester

Uterus
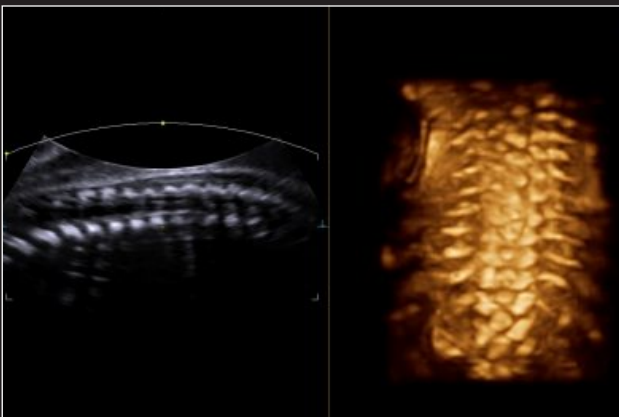
3D Fetal spine
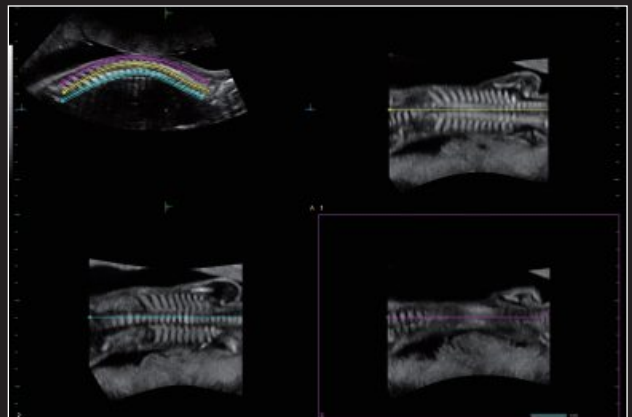
Feral spine in Any Slice

eXpanded Capability

X-CUBE 90 on GPX is designed to provide objective and accurate diagnoses based on expanded technology. Intelligent clinical features upgrade diagnostic accuracy to new levels. Broaden your skills and range of capabilities.

Live HQ™

The combination of qualified 3D/4D transducers with strong performance reliability and geometrical accuracy enables ALPINION's Live HQ™ software to render a realistic fetal shape. Light position displays diverse view of fetus and users can adjust light direction freely using a trackball.

Infinite Insight

UNPROCEED   PROCEED
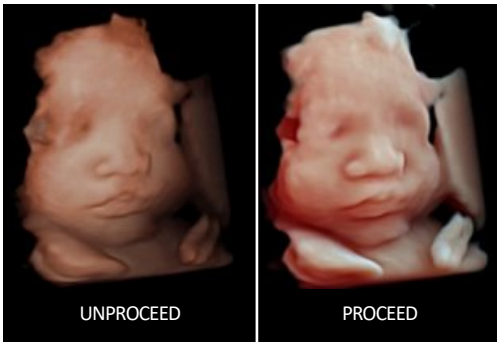
Volume Speckle Reduction Imaging(VSRI)

Volume Speckle Reduction Imaging enhances the distinction between structures by removing the noise of volume data. It helps improves rendered images quality.

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.
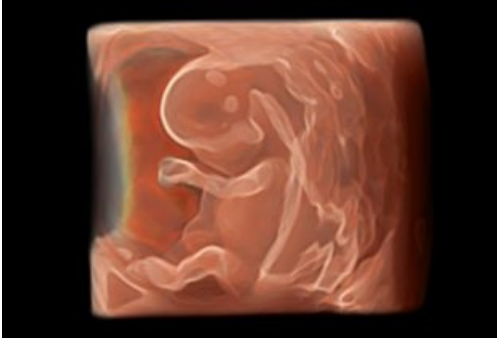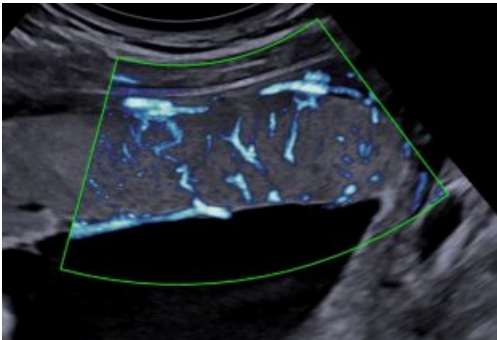

X$^+$ MicroView

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.
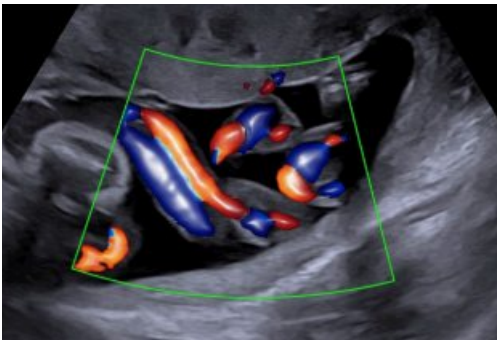
Brilliant Flow

It is an 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. It may provide additional spatial information in CF, PDI or X$^+$ MicroView.
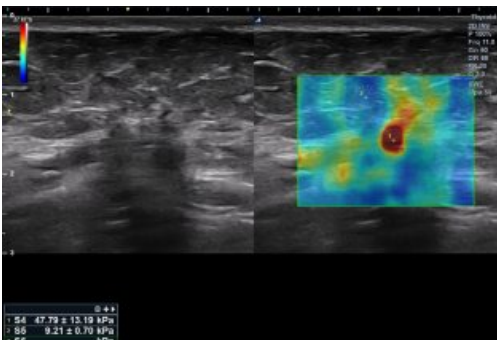
Shear Wave Elastography(SWE)

Shear Wave Elastography evaluates tissue stiffness. This non-invasive and advanced tool provides quantitative assessment for chronic liver disease and suspicious nodule of Thyroid and Breast. The reliable and reproducible result of SWE helps to increase diagnostic confidence.

Simple Automation Tools

X⁺ Auto Biometry: 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 an examination speed and high accuracy.

Auto Follicle: Simply measure multiple follicles simultaneously. This feature saves exam time by quick detecting multiple follicles and calculating volume of each follicles. Counted follicles are identified by color and results are delivered in report.

Auto NT: When a user draws a ROI box in a desired measurement area during a nuchal translucency scan, the maximum thickness will be automatically measured.

Clear Face: Clear Face detects a fetal face automatically and it removes structures that cover fetal face such as cord, placenta, and uterus. It allows users to acquire clear view with simple operation.

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 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 supports ultrasound studies only.

Wide FOV

The wide field of view provides more anatomical structures in real time. The extended view helps better understanding of the relationship between organs and additional anatomical information improves value of a report.

Infinite Insight

eXceptional Care

The detailed work process designed by X-CUBE 90 on GPX cares about realizing a more efficient working environment for medical professionals. Comprehensive tools such as auto measurement, analytics, exam assists, and ergonomic design increase productivity across a wide range of patient cases and applications.

Patient Centered Endocavity Transducer

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

* Compared to the transducer of previous ALPINIOIN endocavity

Comfortable Grip Volume Convex

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 23% smaller

Time Saving Solution

Sleep Mode

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

Power Preset

With a single touch, users can load a transducer with allocated image preset. Quick and easy application of preset shorten the image setup time.

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.

CUBE Note

This mobile application links with ultrasound system to transfer images and records directly to the patients' mobile device.

Intuitive design
for your daily practice

23 inch FHD LED Screen

Enjoy a larger widescreen and clear, high-definition 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.

4 Swivel Wheels

Thanks to the 4 swivel wheels, the system can be moved around with a little effort and can be operated comfortably in any position.

Additional Probe Holder

Providing more ease to pick up the transducer and gel, the additional holder provides a convenient diagnostic environment to fit the body shape of user.

12.1 inch Tilting LCD Color Touch Panel

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

320° Articulating Monitor Arm
& ±90°, 60° Angle Adjustable Gel Warmer

Ergonomic design helps to promote healthy posture, which reduces musculoskeletal pain.

Antivirus Solution

As its automatic virus scanning function is activated whenever the system boots, patients' information is more securely protected.

ALPINON's
Transducer 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.

X$^+$ Crystal Signature™

Special matching layer
We use a special material to increase the penetration efficiency of the acoustic power, thereby improving sensitivity and bandwidth.

Upgraded Single Crystal
The upgraded single crystal features improved transmissivity of the ultrasound and produces high-resolution images.

Quasi decoupling layer
Its unique structure increases ultrasound penetration efficiency and makes it possible to reach deeper tissues.

Signal loss minimization
ALPINION's special material minimizes signal loss and maximize heat dissipation with our special material.
* Thermal conduction efficiency increased 3.5 times compared to our previous product

High sensitivity signal transmission
High performance low loss cable transmits high sensitivity signals to achieve optimal impedance matching with the system.

Transducers
Developed and manufactured by ALPINION

Convex

SC1-7H `New`
X⁺ Crystal Signature™
High Density Single Crystal Convex
Abdomen, OB/GYN, Pediatric, EM, Urology

SC2-9H `New`
X⁺ Crystal Signature™
High Density Single Crystal Convex
Abdomen, OB/GYN, Pediatric, EM, Urology

SC2-11H `New`
X⁺ Crystal Signature™
High Density Single Crystal Microconvex
Abdomen, OB/GYN, Pediatric, EM

Volume Convex

SVC1-8H `New`
Single Crystal Volume Convex
Abdomen, OB/GYN, Pediatric, EM, Urology

Linear

SL3-19X `New`
X⁺ Crystal Signature™
Extreme High Density Single Crystal Linear, Seamless window
Abdomen, Pediatric, OB/GYN, EM, MSK, Vascular, Small Parts, TCD

SL3-19H `New`
X⁺ Crystal Signature™
Extreme High Density Single Crystal Linear, Seamless window
Abdomen, Pediatric, OB/GYN, EM, MSK, Vascular, Small Parts, TCD

L3-12X
Hgh Density Linear
Pediatric, EM, MSK, Vascular, Small Parts

L3-8H
Hgh Density Low Freq. Linear
Breast, EM, MSK, Vascular, Small Parts

L10-25H `New`
Wideband Ultra High Crystal Linear, Seamless window
EM, MSK, Vascular, Small Parts

Endocavity

EC2-11H `New`
X⁺ Crystal Signature™
High Density Single Crystal Endocavity(Straight), Small tip, FOV MAX.230°
OB/GYN, Urology, EM

EV2-11H `New`
X⁺ Crystal Signature™
High Density Single Crystal Endocavity(Curved), Small tip, FOV MAX.230°
OB/GYN, Urology, EM

VE3-10H `New`
Volume Endocavity
OB/GYN, Urology, EM

Phased Array

MP1-5X `New`
X⁺ Crystal Signature™
Abdomen, Pediatric, Cardiac, EM, TCD

SP3-8T
Single Crystal Phased Array
Abdomen, Cardiac, EM, Pediatric

Pencil

CW2.0
Pencil Typed
Cardiac

CW5.0
Pencil Typed
Cardiac

CW8.0
Pencil Typed
Cardiac

* A TEE transducer is available

X CUBE 90 on GPX

eXtensive Insight
eXpanded Capability
eXceptional Care

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

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