Daily inspiration

Ultrasound system

HS70A

Samsung Medison, an affiliate of Samsung Electronics, is a global medical company founded in 1985. With a mission to bring health and well-being to people's lives, the company manufactures diagnostic ultrasound systems around the world across various medical fields. Samsung Medison has commercialized the Live 3D technology in 2001 and since being part of Samsung Electronics in 2011, it is integrating IT, image processing, semiconductor and communication technologies into ultrasound devices for efficient and confidence diagnosis.

Scan code or visit
www.samsungmedison.com/
to learn more

SAMSUNG MEDISON CO., LTD.

SAMSUNG

User-inspired design enables higher efficiency

The HS70A was designed for hospital and private care - with you - the user in mind. The HS70A can be used in the departments of Radiology, Internal Medicine, Vascular Surgery, Urology, Gynecology, Pediatrics, Preventive Medicine, Orthopedics, Physiotherapy and Emergency Medicine for:

- Abdominal imaging
- Musculoskeletal imaging
- Small parts imaging
- Breast imaging
- Cardiac screening
- Pediatric heart imaging
- Vascular imaging
- Transcranial Doppler (TCD)

The high-quality image ensures user convenience, excellent patient care and higher patient throughput.

Image clarity

S-Vision imaging engine

With the advanced technology built in the HS70A system, the digital signals received from the beamformer provide clear, detailed resolution and tissue uniformity for all types of applications in general imaging.
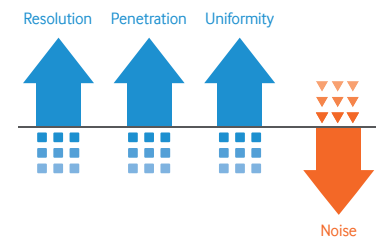

S-Harmonic

This new harmonic technology makes a clearer image - near to far. Reducing signal noise, S-Harmonic provides more uniform ultrasound images. Combined with the S-Vue transducer and S-Vision imaging engine, S-Harmonic takes HS70A image quality one step higher.
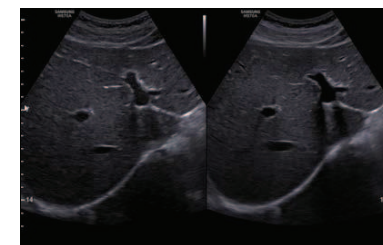
Liver with S-Harmonic / Liver without S-Harmonic

S-Vue transducer (CA1-7A, CV1-8A)

The S-Vue transducer provides a larger bandwidth and higher sensitivity both in transmit and receive capabilities. The combination of the new S-Vision beamformer with the S-Vue transducer allows easier visualization of difficult to image pathologies. In addition, the ergonomically designed S-Vue transducer is easy to hold and manipulate.
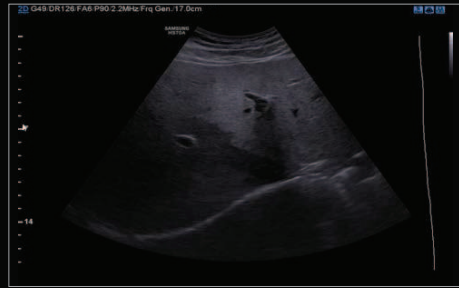

Transmit/Receive at conventional transducer

S-Vue transducer

Transmit/Receive at S-Vue transducer
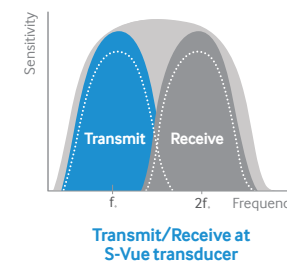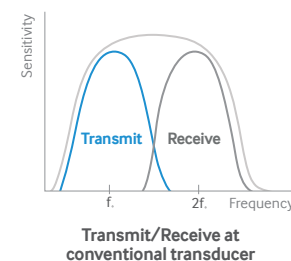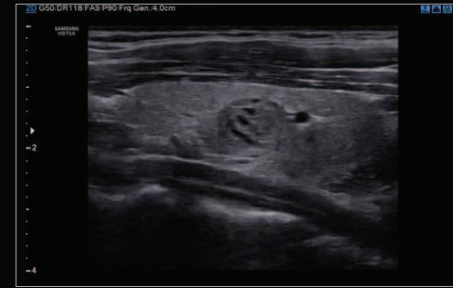
* Compared with the conventional Samsung transducers
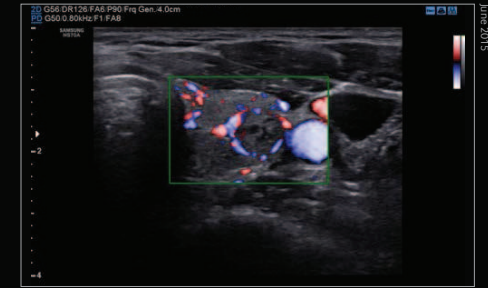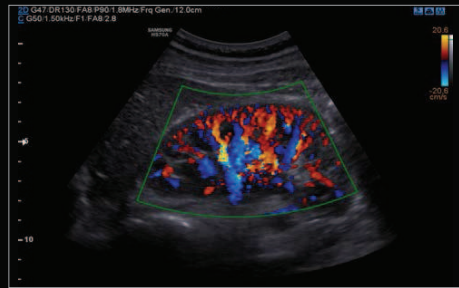
Images rich in detail
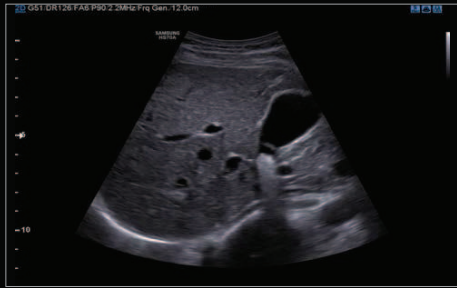
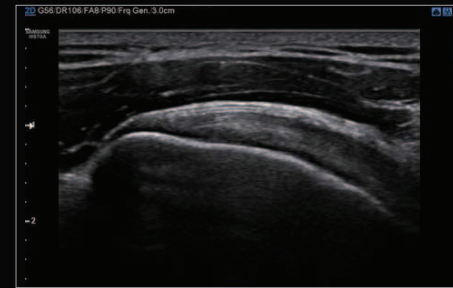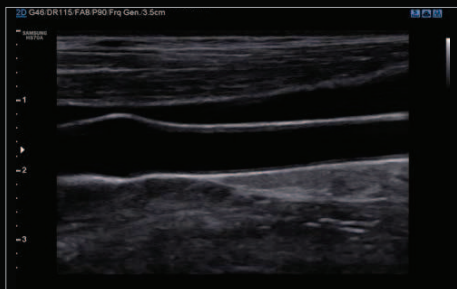GB stones

Focal fatty liver

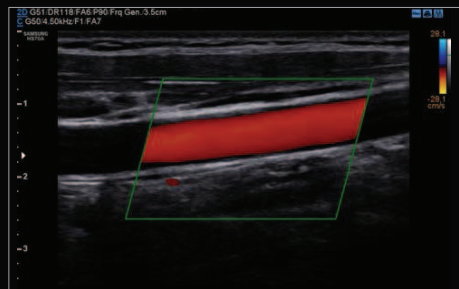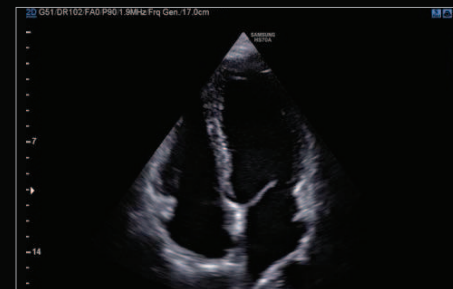Thyroid nodule

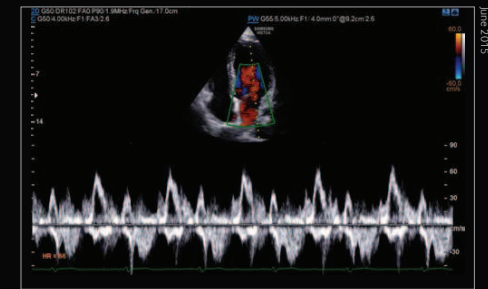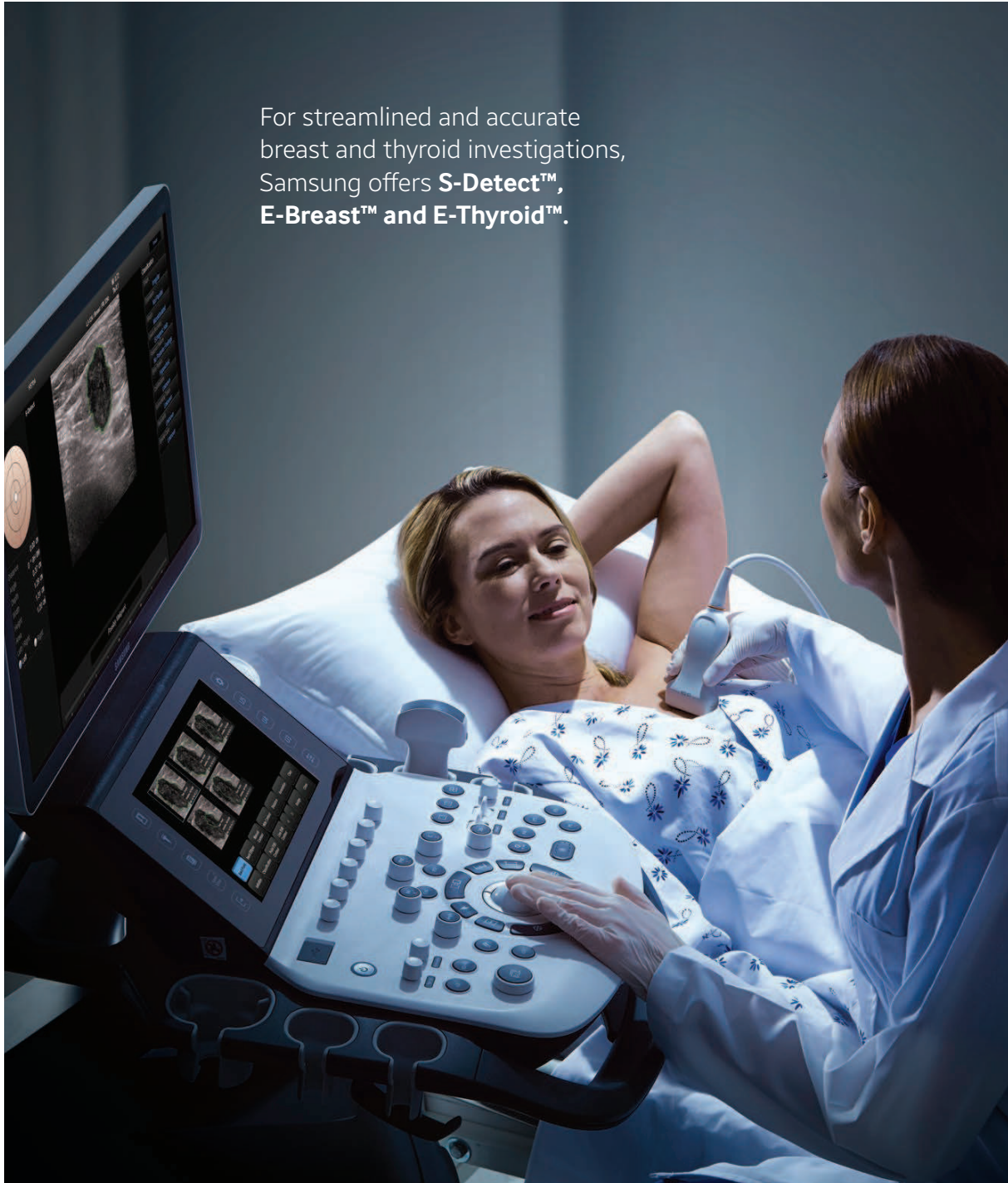Thyroid nodule S-Flow

Kidney

Kidney color

Shoulder

Wrist

CCA

CCA color

4 chamber view

MV inflow

For streamlined and accurate breast and thyroid investigations, Samsung offers **S-Detect™, E-Breast™ and E-Thyroid™.**

Advanced measurement tools

S-Detect™

By simply clicking a suspicious lesion, S-Detect™ draws the lesion borders, suggests the characteristics of the lesion and gives a hint whether the lesion is benign or malignant. S-Detect™ uses the Breast Imaging-Reporting and Data System (BI-RADS®) scores for standardized reporting and classification of lesions.


Exam report of S-Detect™

* Above feature may not be available in some countries.

E-Breast™
(ElastoScan™ for breast)

Next to the B-mode image, ElastoScan™ displays a color image that represents the elasticity of the tissue. E-Breast™ technology calculates the strain ratio between the selected target and surrounding fatty tissue. With E-Breast™, the user only has to select one ROI.
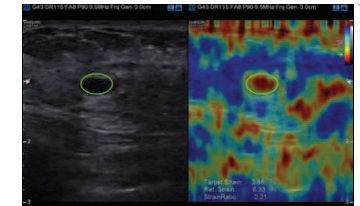
Breast Parenchyma

E-Thyroid™
(ElastoScan™ for thyroid)

E-Thyroid™ uses the pulsations of the adjacent common carotid artery (CCA), eliminating the need for manual transducer compression and offering greater consistency in the ElastoScan™ image. E-Thyroid™ provides an elasticity contrast index that is calculated by comparing the elasticity of the lesion and normal tissue within the ROI.
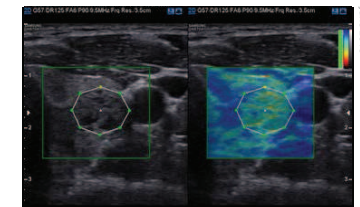
Thyroid ElastoScan™ nodule

Preventive actions

Built-in and effective functionality allows you to provide reliable diagnosis and patient-focused preventative care.

Arterial Analysis
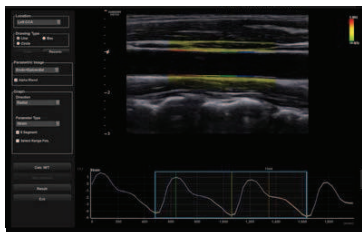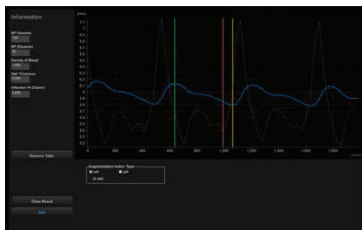
Arterial Analysis detects changes in vessels, providing measurement values such as stiffness and intima-media thickness. Since functional changes occur before morphological changes, this technology supports the diagnosis related to heart vessels at an early stage.

Arterial Analysis

2D Arterial Analysis radial

Arterial Analysis report
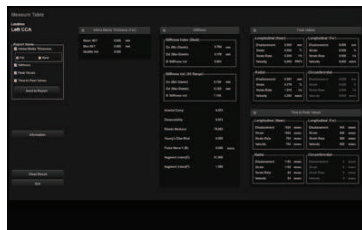
Measurement table of Arterial Analysis

Strain+

Strain+ is a quantitative tool for global and segmental wall motion of the left ventricle (LV). In Strain+, three standard LV-views and a Bull's Eye are displayed in a quad screen for easy and quick assessment of the LV-function.
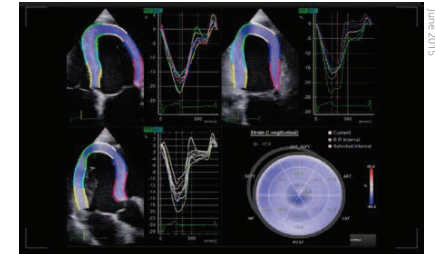
Strain+

Stress Echo

The Stress Echo package includes wall motion scoring and reporting. It includes exercise Stress Echo, pharmacologic Stress Echo, diastolic Stress Echo and free programmable Stress Echo.

Stress Echo

Intuitive streamlined workflow

Quick Preset

Quick Preset shows the four connected transducers and, for each of them, the most frequently used image settings. With one touch, the desired transducer and preset will be activated.

CA1-7A
Abd

L3-12A
Carotid

PE2-4
Adult Echo

VR5-9
Adnexa

EZ-Exam+™

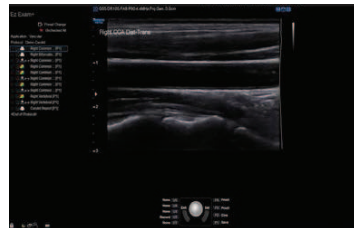EZ-Exam+™ enables users to build or to use predefined protocols. It transforms the ultrasound investigation into a streamlined process. EZ-Exam+™ ensures the full investigation is performed, eliminating the risk of forgetting an image or loop capture, as well as measurement and transducer preset changes.

Set up display of EZ-Exam+™

Advanced QuickScan™

To optimize efficiency, one touch of the QuickScan™ button during a CCA ultrasound scan automatically sets the ROI position, scanning direction, sample volume position and angle correction.
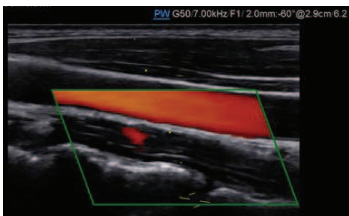
CCA Doppler without QuickScan™

Q
SCAN
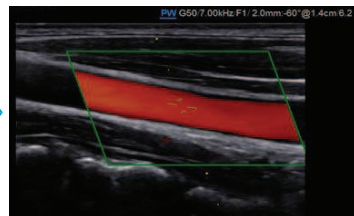
CCA Doppler with QuickScan™

A suite of user-friendly tools such as Quick Preset, EZ-Exam+™ and Advanced QuickScan™ simplify and streamline exams, **making investigations easier and faster.**

Ergonomic design

Silent operation
This exceptionally quiet device (35 dB or less) allows physical exams to be performed, including auscultation, while the ultrasound system is turned on.

Mobility
The design of the HS70A makes it easy to move in any situation.

23-inch LED Full HD display
To enhance the image, the HS70A features a 23-inch full high-definition (FHD) LED display, delivering superior image contrast on a large ultrasound display.

10.1-inch touch screen
The 10.1-inch touch screen is exceptionally sensitive and makes operating the ultrasound system smartly efficient.

Gel warmer
For operator convenience, a gel warmer can be installed on both sides of the control panel.

User-friendly console design
Customizable U and P keys allow users to create a workflow tailored to their needs. The console also can be adjusted up, down, left and right so each user is ensured the optimal location.

Comprehensive selection of transducers

Curved array transducers

S-Vue transducer

CA1-7A
- Application : abdomen, obstetrics, gynecology
- Field of view : 70 °

CA2-8A
- Application : abdomen, obstetrics, gynecology
- Field of view : 58°

CF4-9
- Application : pediatric, vascular
- Field of view : 92°

Endocavity transducers

VR5-9
- Application : obstetrics, gynecology, urology
- Field of view : 150.3°

E3-12A
- Application : obstetrics, gynecology, urology
- Field of view : 210°

Linear array transducers

L3-12A
- Application : small parts, vascular, musculoskeletal
- Field of view : 50mm

LA3-16A
- Application : small parts, vascular, musculoskeletal
- Field of view : 38.4mm

LA2-9A
- Application : small parts, vascular, musculoskeletal, abdomen
- Field of view : 44.16mm

LA3-16AI
- Application : musculoskeletal, intraoperative
- Field of view : 25.6mm

Phased array transducers

PE2-4
- Application : abdomen, cardiac, TCD
- Field of view : 90°

PA3-8B
- Application : cardiac, pediatric, abdomen
- Field of view : 90°

Volume transducers

S-Vue transducer

CV1-8A
- Application : abdomen, obstetrics, gynecology
- Field of view : 72°

V5-9
- Application : obstetrics, gynecology, urology
- Field of view : 150.6°

LV3-14A
- Application : musculoskeletal, small parts, vascular
- Field of view : 38.4mm

CW transducer

DP2B
- Application : cardiac

Comprehensive selection of transducers

Daily inspiration

Ultrasound system
HS70A

Linear array transducers

L3-12A
- Application : small parts, vascular, musculoskeletal
- Field of view : 50mm

LA3-16A
- Application : small parts, vascular, musculoskeletal
- Field of view : 38.4mm

LA2-9A
- Application : small parts, vascular, musculoskeletal, abdomen
- Field of view : 44.16mm

LA3-16AI
- Application : musculoskeletal, intraoperative
- Field of view : 25.6mm

Curved array transducers

S-Vue transducer

CA1-7A
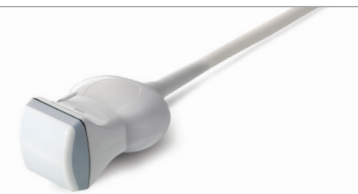- Application : abdomen, obstetrics, gynecology
- Field of view : 70°

CA2-8A
- Application : abdomen, obstetrics, gynecology
- Field of view : 58°

CF4-9
- Application : pediatric, vascular
- Field of view : 92°

Volume transducers

LV3-14A
- Application : musculoskeletal, small parts, vascular
- Field of view : 38.4mm

* S-Vision is not the name of a function, but is the name of Samsung's ultrasound imaging technology.

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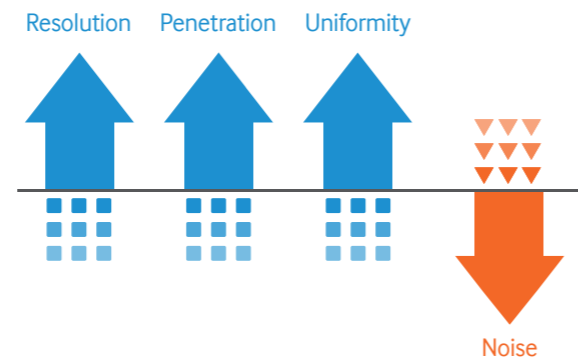
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www.samsungmedison.com/
to learn more

SAMSUNG

User-inspired design enables higher efficiency

S-Vision imaging engine

With the advanced technology built in the HS70A system, the digital signals received from the beamformer provide clear, detailed resolution and tissue uniformity for all types of applications in general imaging.

Resolution   Penetration   Uniformity

Noise

Quick Preset

Quick Preset shows the four connected transducers and, for each of them, the most frequently used image settings. With one touch, the desired transducer and preset will be activated.

L3-12A
Shldr/Knee

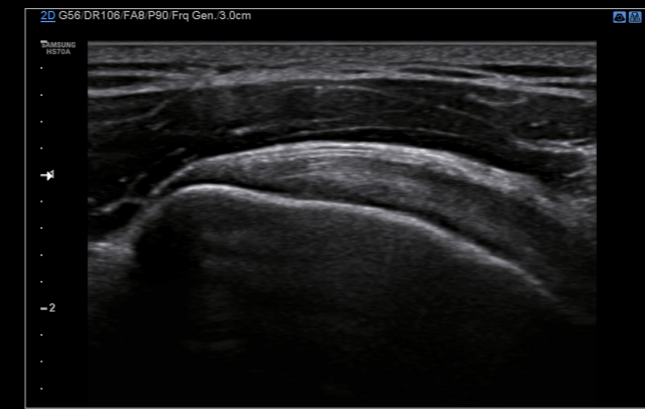L3-16AI
MSK Sup

CA1-7A
Spine

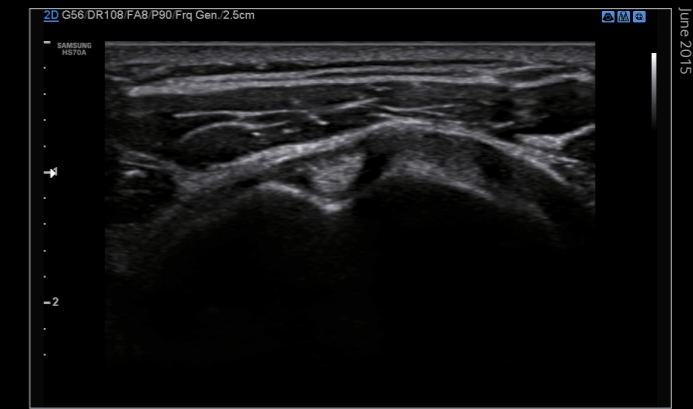LA3-16A
Elbow/Wrist

Panoramic

Panoramic imaging displays an extended field-of-view allowing users to examine wider area. Panoramic imaging also supports angular scanning with acquired data from linear and convex transducer.
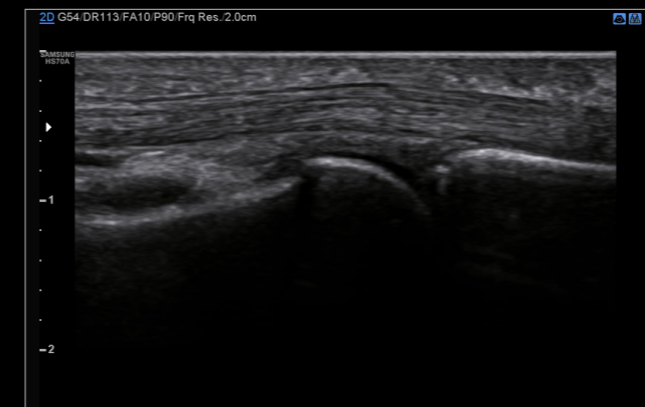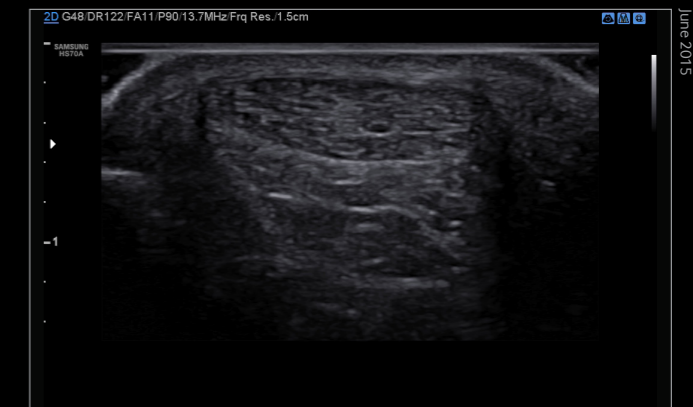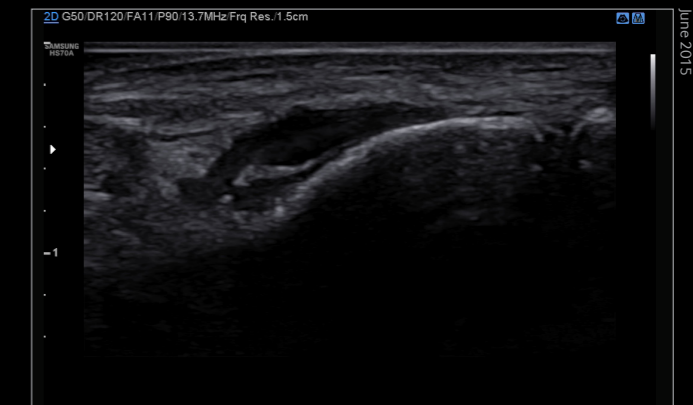
Panoramic view of elbow

Images rich in detail

Shoulder

Biceps tendon

Wrist

Achilles tendon

Finger

Ganglion