

Samsung Medison is a global leading medical devices company. Founded in 1985, the company now sells cutting-edge medical devices including diagnostic ultrasound, digital X-ray and blood analyzer, around the world. The company has attracted global attention in the medical field with its R&D capabilities and advanced technologies. In 2011, Samsung Medison became an affiliate company of Samsung Electronics, integrating its IT, image processing, semiconductor and communication technologies into medical devices.

CT-RS80A with Prestige V3.0 MSK-FTW-200129-EN

- * Prestige is a package of technologies for upgraded systems.
- * S-Vision is not the name of a function, but is the name of Samsung's ultrasound imaging technology.
- * S-Vue is not the name of a function, but is the name of Samsung's advanced transducer technology.
- * S-Tracking is not a function name, but a package containing Clear Track and Virtual Track.
- * Availability of some products, features, options and transducers mentioned in this catalog may vary from country to country and is subject to varying regulatory requirements.
- * This product, features, options and transducers are not commercially available in all countries. Due to regulatory reasons their future availability cannot be guaranteed. Please contact your local sales network for further details.



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Pushing the boundaries

Ultrasound system RS80A with Prestige V3.0



Superior image quality for confident diagnosis

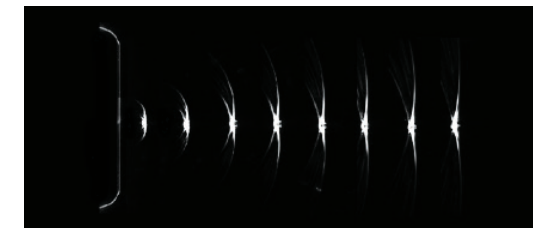


The **exceptional musculoskeletal imaging of RS80A with Prestige** is built upon the successes of Samsung technologies.

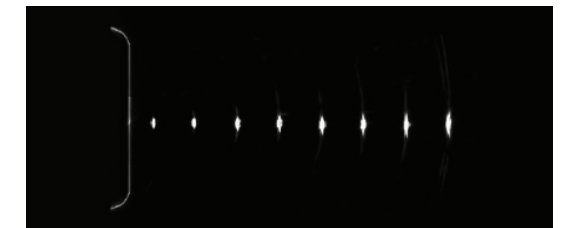
The **S-Vision™ architecture** together with high frequency linear and single crystal transducers delivers **diagnostic confidence** when diagnosing challenging patients.

S-Vision™ beamformer

The S-Vision™ beamformer demonstrates a clearer image that receives returning signals through a sophisticated digital filtering system resulting in reduced side lobes, less noise and artifact. It enhances the image quality with better clarity and consistent results.



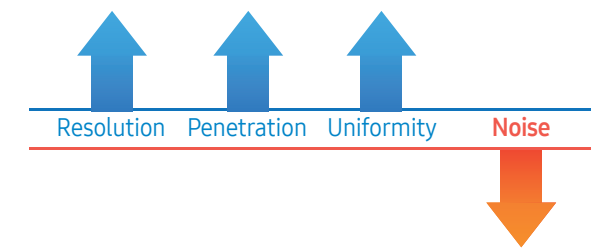
Conventional



RS80A

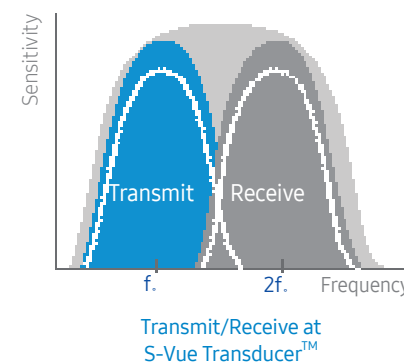
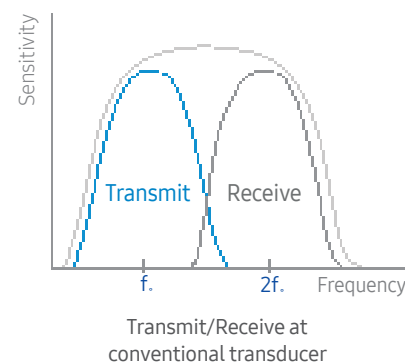
S-Vision™ imaging engine

With the S-Vision™ imaging engine built on the RS80A with Prestige, the digital signals demonstrate clear, detailed resolution and tissue uniformity for various types of applications in general imaging.



S-Vue Transducers™ (Single-crystal technology)

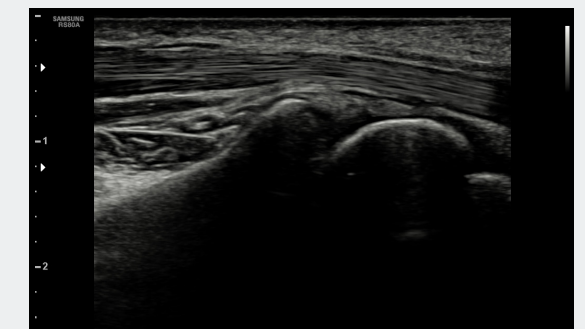
RS80A with Prestige incorporates single crystal technology. Employing an innovative crystal design, S-Vue Transducer™ provide more efficient piezoelectric properties, resulting in wider bandwidths that enable better penetration and higher quality resolution on even challenging patients.



* Compared with the conventional Samsung transducers

High frequency linear transducer (LA4-18B)

Obtaining muscles and tendons information has traditionally been a challenge. Samsung's high frequency linear transducer makes it easier to see muscles and tendons in clear detail. This technology enhances near field resolution, improving musculoskeletal imaging as well as far field penetration to detect the clinically important details.



Wrist

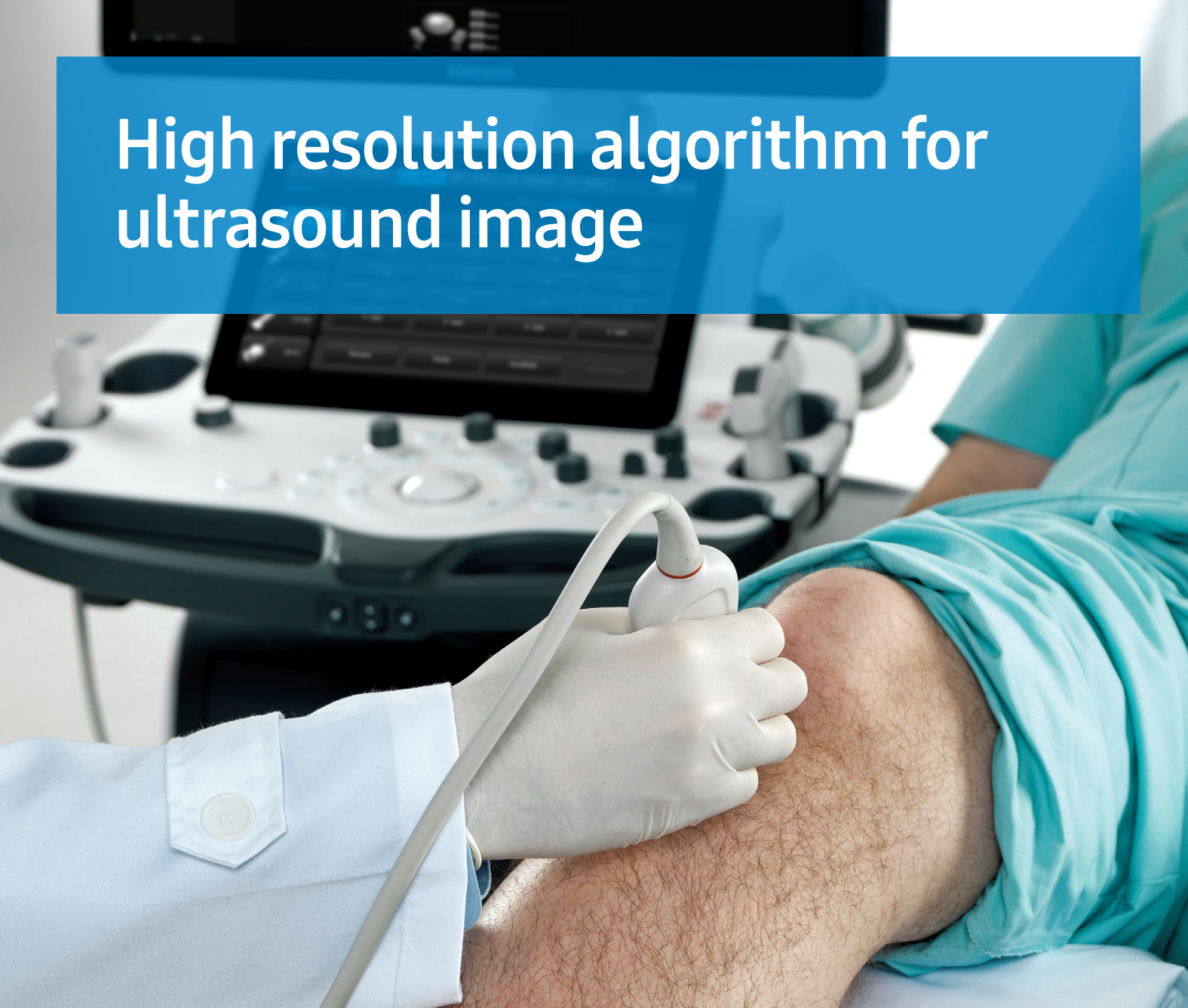
Transducer for MSK (CA3-10A)

The single-crystal technology offers superior image uniformity from near to far field, regardless of patient size. With CA3-10A's improved spine imaging, you can perform a more accurate diagnosis.

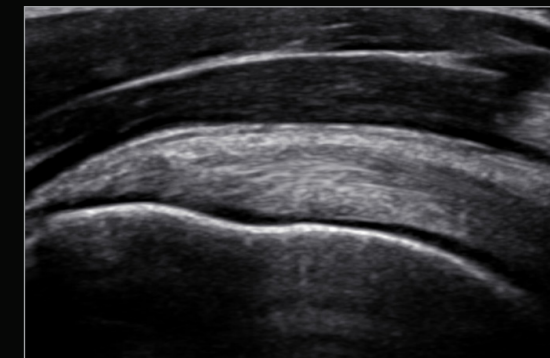


Spine

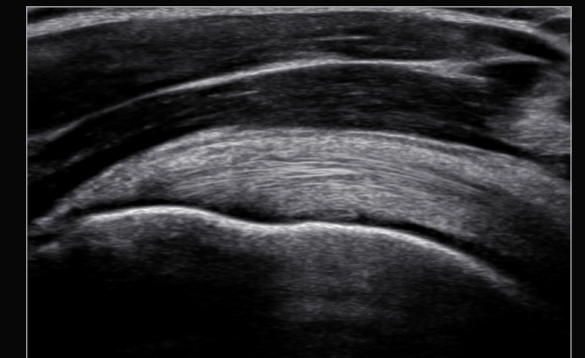
High resolution algorithm for ultrasound image



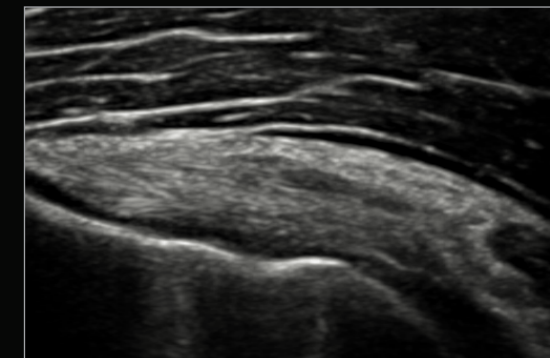
HQ Vision™



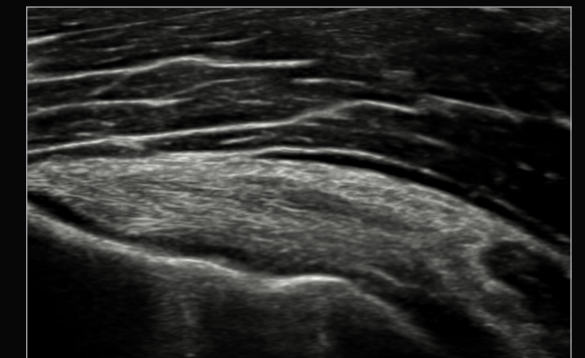
Shoulder (HQ-Vision™ off)



Shoulder (HQ-Vision™ on)



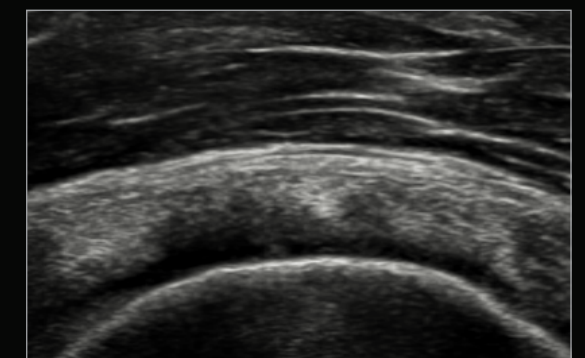
Shoulder (HQ-Vision™ off)



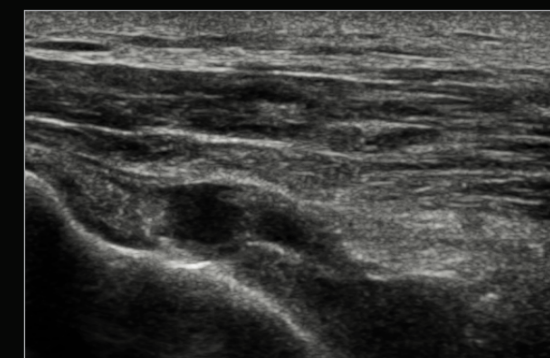
Shoulder (HQ-Vision™ on)



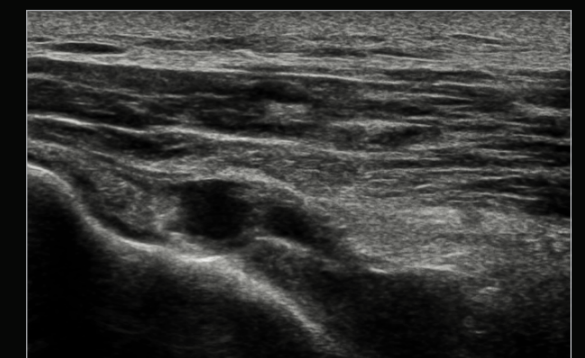
Shoulder (HQ-Vision™ off)



Shoulder (HQ-Vision™ on)



Shoulder (HQ-Vision™ off)

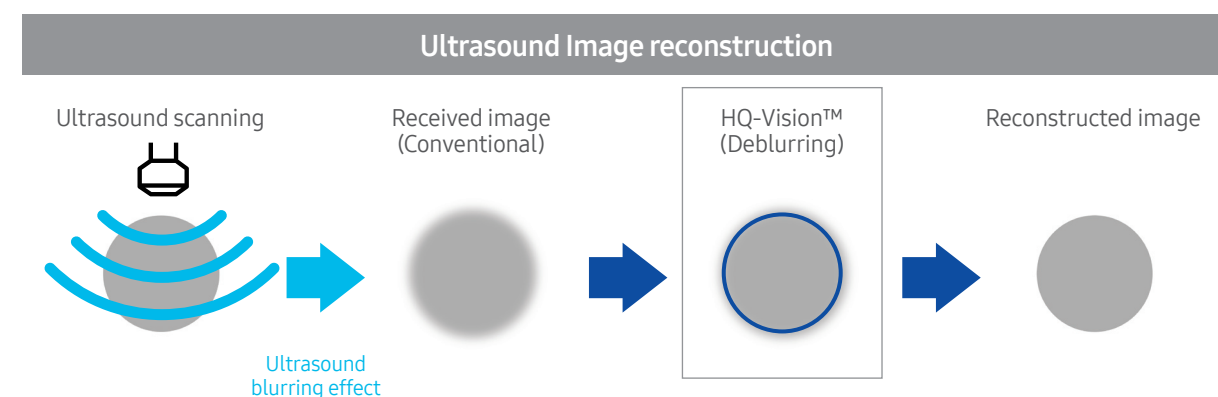


Shoulder (HQ-Vision™ on)



HQ-Vision™

The physical phenomenon of blurring in ultrasound images can be mathematically modeled and corrected. HQ-Vision™ analyzes the ultrasound dispersion along the propagation line and combines the result with the tissue reflectivity. The blurring can then be corrected using a reverse calculation based on the acquired data. Samsung's HQ-Vision™, a new, fast algorithm that fixes blurring in real time, helps users to get a high resolution image and detect clinically important details.



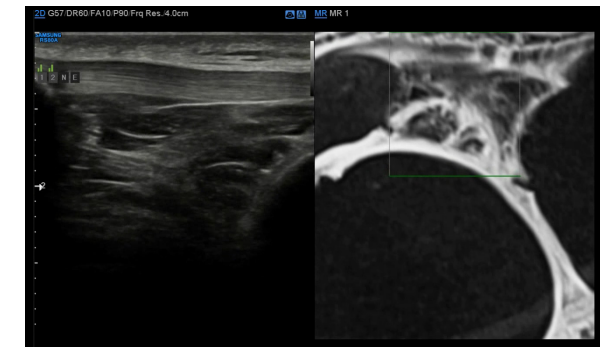
Outstanding tools for interventional procedures

Samsung continues pushing the boundaries of ultrasound technology with leading technologies including **S-Fusion™** and **S-Tracking™** for increased accuracy when performing interventional procedures.



S-Fusion™

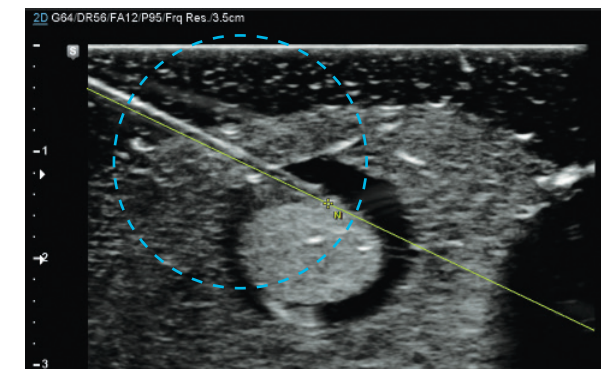
S-Fusion™ enables simultaneous localization of a lesion using real-time ultrasound in conjunction with other 3D volumetric imaging modalities. Where the image fusion method faces challenges such as relatively slow and inaccurate registration, Samsung offers a quicker and more precise registration process. S-Fusion™ allows precise targeting during interventional procedures. With S-Fusion™, your system is ready for many advanced clinical procedures.



S-Fusion™

S-Tracking™

S-Tracking™ increases accuracy during interventional procedures by providing a simulated needle path and target mark within the live ultrasound image. Clear Track, one of two functions provided by S-Tracking™, secures accuracy by using a specialized needle with a sensor tip. S-Tracking™ also includes Virtual Track utilizing conventional needles to provide both accuracy and economic benefit.



Clear track

NeedleMate™

NeedleMate™ ensures precise needle targeting when performing commonly used interventional procedures.

BeamSteer

Identifying the location of needles (needle guidance & needle tips), BeamSteer provides the high level of efficiency and safety in needle placement.



NeedleMate™ off



NeedleMate™ on

Leading edge design for your convenience



Folding monitor

The folding monitor enables safe and secure transport.



13.3-inch tilting touch screen

The tilting touch screen adjusts to accommodate user viewing preference in any scanning environment.



6 way adjustable control panel

The RS80A's 6 way adjustable control panel optimizes work environment to reduce repetitive stress. Upon power down the control panel returns to home position for easier mobility.



23-inch LED display

The RS80A with Prestige features a 23-inch high definition LED display delivering excellent contrast resolution, image clarity and vibrant color in any lighting condition.



Simplified console design

The simplified control panel including 3D Navigator and intuitive grouping of console buttons streamlines system interaction for efficient patient scanning.



Swivel lock

A single pedal controls a swivel lock mechanism to conveniently secure console in place and accommodates efficient movement during a variety of scanning procedures.

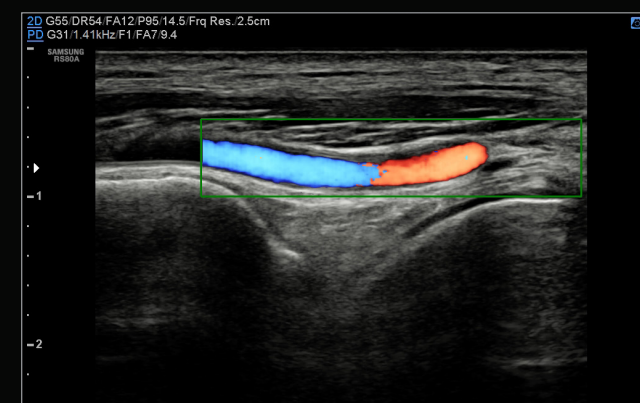
Image Gallery



Wrist



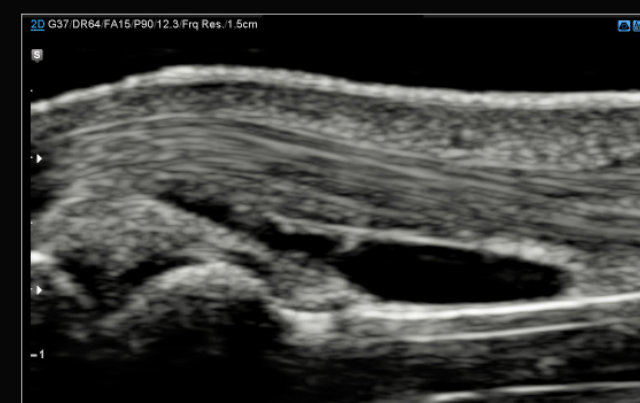
Wrist



Ankle



Wrist

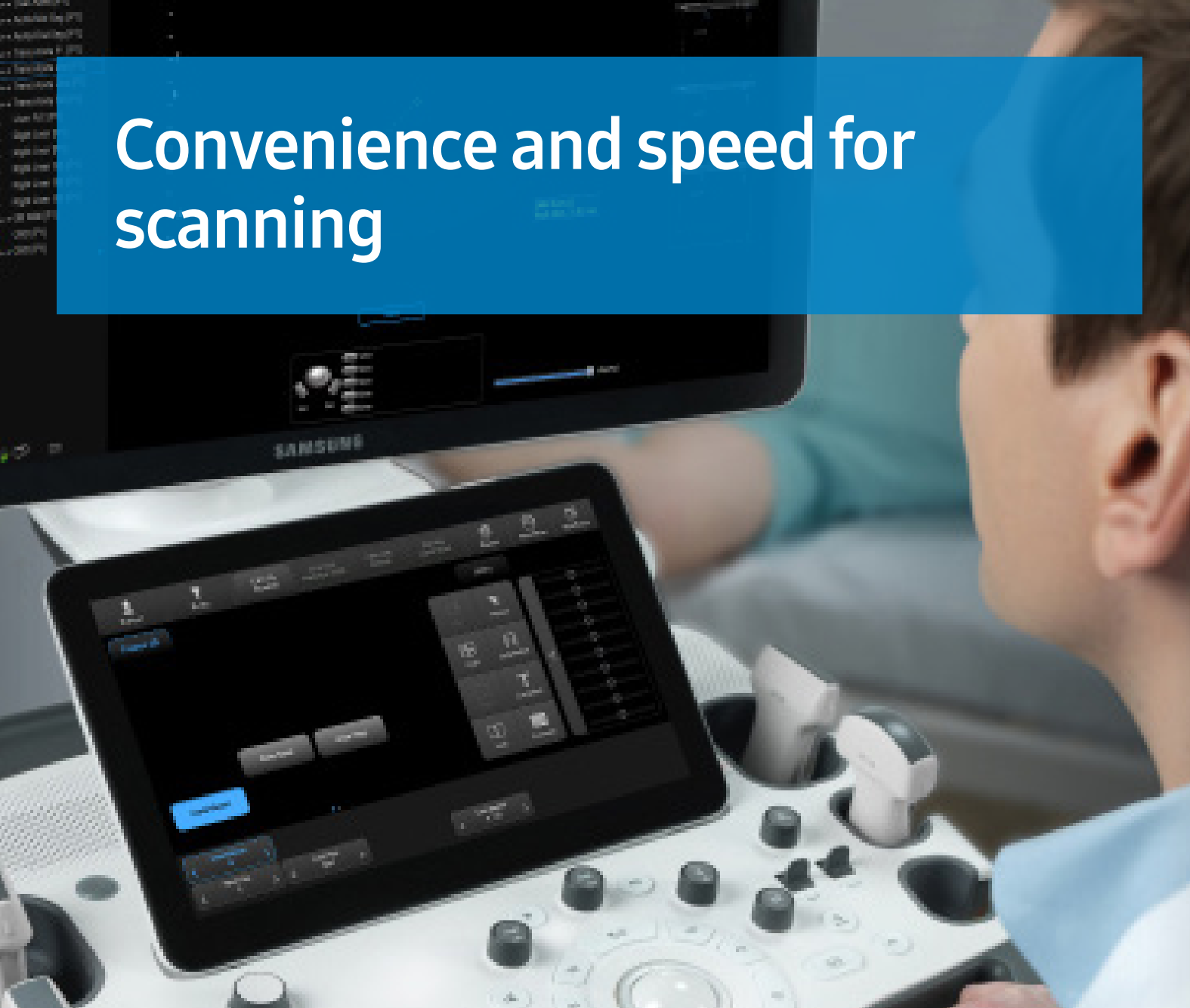


Finger ganglion



Calf muscle

Convenience and speed for scanning



QuickPreset

With one touch the user can select the most common transducer and preset combinations. QuickPreset maximizes efficiency to make a full day of scanning simple and easy.



Comprehensive selection of transducers

Curved array transducers



CA3-10A

- Application : abdomen, obstetrics, gynecology



CA1-7A

- Application : abdomen, obstetrics, gynecology



CA2-8A

- Application : abdomen, obstetrics, gynecology



CF4-9

- Application : pediatric, vascular

Linear array transducers



LM4-15B

- Application : small parts, vascular, musculoskeletal



LA4-18B

- Application : small parts, vascular, musculoskeletal



L3-12A

- Application : small parts, vascular, musculoskeletal



LA3-16A

- Application : small parts, vascular, musculoskeletal



LA2-9A

- Application : small parts, vascular, musculoskeletal, abdomen



L7-16

- Application : small parts, vascular, musculoskeletal



LA3-16AI

- Application : musculoskeletal