

## Secure your care

Samsung Healthcare Cybersecurity

### Bringing peace of mind to your hospital and patients

To address the emerging need for cybersecurity, Samsung provides a solution to support our customers by offering the tools to protect against cyberthreats that may compromise invaluable patient data and ultimately degrade the quality of care. Samsung's Cybersecurity Solution strives to abide by the CIA triad (Confidentiality, Integrity, and Availability) and takes a comprehensive approach to providing impeccable protection with the following pillars: Intrusion prevention, Access control, and Data protection.



#### Intrusion prevention

Tools for protecting against cyber threats from external attacks

- Security tools include Anti-virus & Firewall
- Secured operating system



#### Access control

Strengthened surveillance for tracking the access of patient information

- Account management
- Enhanced audit trail



#### Data protection

Encryption functions for safeguarding data whether at-rest or in-transit

- Data protection
- Transmission security

#### About Samsung Medison CO., LTD.

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 confident diagnosis.

\* Plus is a package for HM70A and does not refer to any particular function.

\* S-Vue Transducer™ is not the name of a function, but is the name of Samsung's advanced transducer technology.

\* 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.

\* This product is a medical device, please read the user manual carefully before use.

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CE 0123

# Mobile excellence

## Ultrasound system HM70A with Plus



CT-HM70A GIV3.0-FTW-200129-EN

Scan code or visit  
[www.samsunghealthcare.com](http://www.samsunghealthcare.com)  
to learn more



**EXPERIENCE**  
A New Healthcare  
Solution

**SAMSUNG**

# Deliver excellence wherever you go

Featuring advanced imaging technology incorporated into compact hardware, the HM70A with Plus is the right choice for physicians and sonographers who want to deliver excellence in patient care and clinical efficiency wherever they go. The HM70A with Plus helps make ultrasound exams and ultrasound-guided procedures more accurate and streamlined with its image performance and efficient, easy-to-use features. The HM70A with Plus' slim and compact design offers versatile portability and increases productivity.



## Excellent image quality

High-quality images are critical for physicians using ultrasound in any clinical environment and are the key to an accurate diagnosis. The HM70A with Plus integrates intelligent imaging technologies to fulfill a wide range of needs with excellent image quality.

### S-Flow™

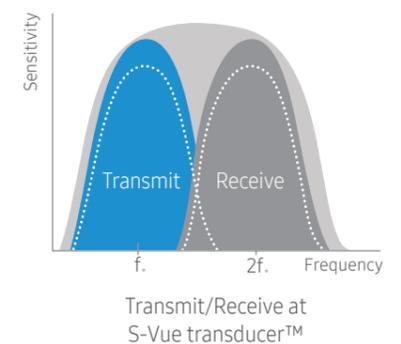
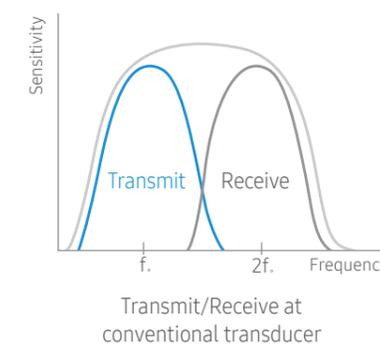
S-Flow™ is a sensitive color Doppler that can reveal peripheral blood vessels even when blood flow detection is difficult.

### ClearVision

The noise reduction filter improves edge enhancement and creates sharper 2D images for optimal diagnostic performance. The integration of specialized Samsung technology results in a notable improvement in image quality.

### S-Vue Transducer™ (CA1-7AD, CA2-9AD) \*

The S-Vue Transducer™ offer a large bandwidth and high sensitivity both in transmit and receive capabilities. The combination of the Hybrid beamforming engine with the S-Vue Transducer™ allows easy visualization of difficult-to-image pathologies. Also, the ergonomically designed S-Vue Transducer™ are easy to hold and manipulate.



\* Optional Extra

# Excellent Point-of-Care solutions

The specialized solutions of HM70A with Plus support your Point-of-Care needs. The HM70A with Plus provides efficient and effective care to your patients with powerful and intuitive solutions such as NeedlePilot™ and EzAssist™.

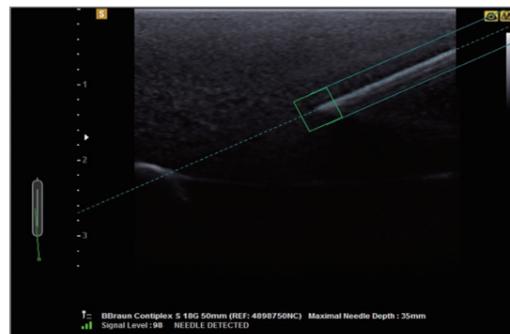


## NeedlePilot™ \*

NeedlePilot™ uses a magnetized needle and magnetic sensors embedded in the transducer to provide onscreen color-coded graphics that clearly identify the correct needle plane. This makes it simple to identify the correct needle trajectory to reach the target anatomy, making NeedlePilot™ useful for both In-Plane and Out-of-Plane approaches.



[« Learn more about NeedlePilot™](#)

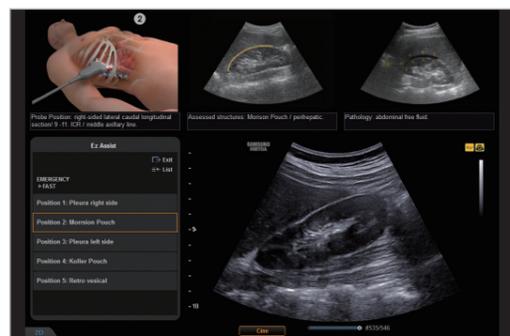


In-Plane (Phantom)

## EzAssist™ \*

As a reference tool for plane scanning, EzAssist™ has multiple clinical applications during live scanning. This allows clinicians to practice procedures using valuable reference materials such as clinical reference images and animation.

\* Optional Extra



Kidney

## Barcode Scanner

Patient information can be automatically transferred to the ultrasound system by scanning the barcode.



Barcode



Scanning



Barcode Scanner

## Qpath™

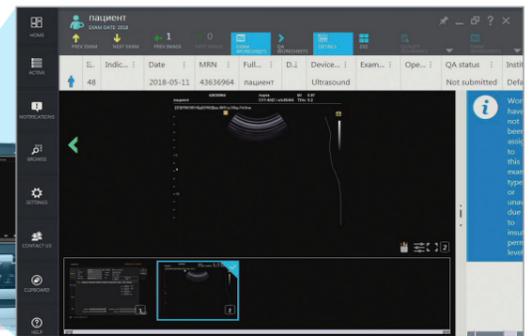
The HM70A can be connected to the Qpath™ cloud server provided by Telexy. Users can transfer patient information and images to the Qpath™ cloud server via wired/wireless LAN. The HM70A uses Q-View to access the Qpath™ cloud server.



Information and images



Qpath™ cloud server



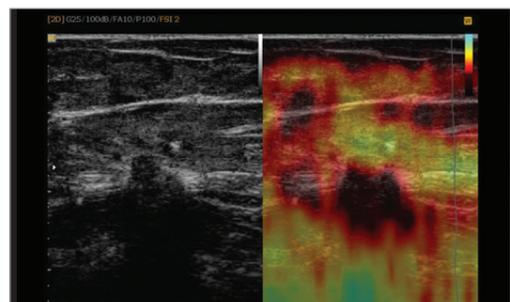
Q-View (Image Archive)

# Excellent solutions for versatile capabilities

HM70A with Plus' remarkable capabilities are complemented by the advanced small parts and cardiovascular tools featured in our premium system. With these tools, the HM70A with Plus helps physicians better focus on finding solutions for challenging cases.

## ElastoScan™ \*

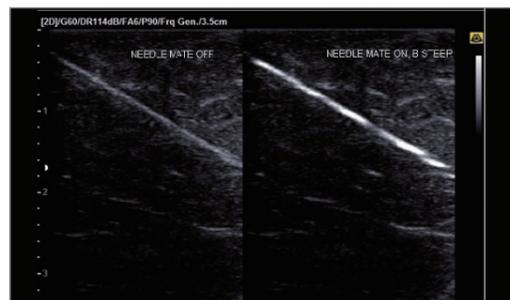
A diagnostic ultrasound technique for imaging elasticity, ElastoScan™ detects the presence of a solid mass in tissues and converts the stiffness into color images. It verifies the presence of lesions, reducing the burden of further cervical palpation.



Breast lesion with ElastoScan™

## NeedleMate™

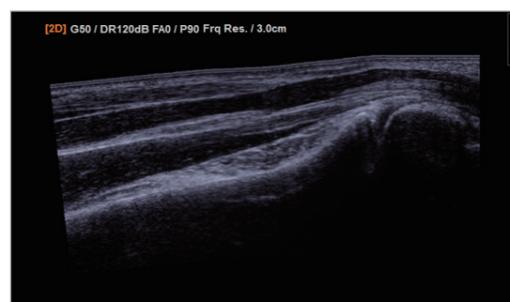
With pinpoint precision, NeedleMate™ delineates needle location when performing interventions such as nerve blocks. Improved accuracy and efficiency in diagnosis are possible with beam steering added to NeedleMate™.



NeedleMate™

## Panoramic \*

Panoramic imaging displays as an extended field-of-view so users can examine wide areas that do not fit into one image as a single image. Panoramic imaging also supports angular scanning from linear transducer data acquisition.



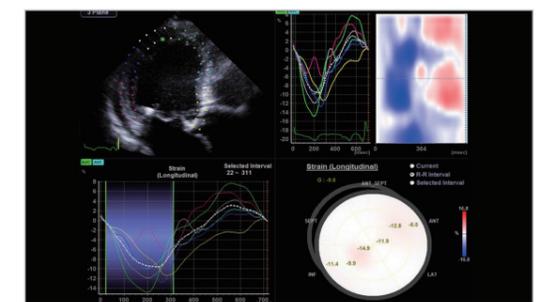
Panoramic view of wrist

\* Optional Extra

## Strain \*

Strain is an assessment tool for global and segmental wall motion from three apical views and it shows peak longitudinal systolic strain in a bull's eye display.

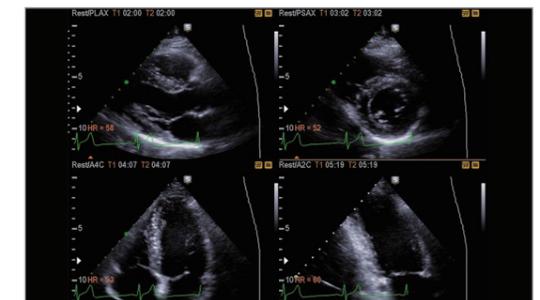
- Comprehensive LV presentation
- Simultaneous chamber view with its segmental information
- Intuitive segmental strain values and time to peak



Strain

## StressEcho \*

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



StressEcho

## AutoIMT \*

AutoIMT allows fast measurement of the carotid artery intima-media thickness (IMT) for diagnosis of the patient's risks of stroke or heart attack. The simple operation helps enhance exam productivity and increase patient throughput.



IMT measured with AutoIMT

\* Optional Extra

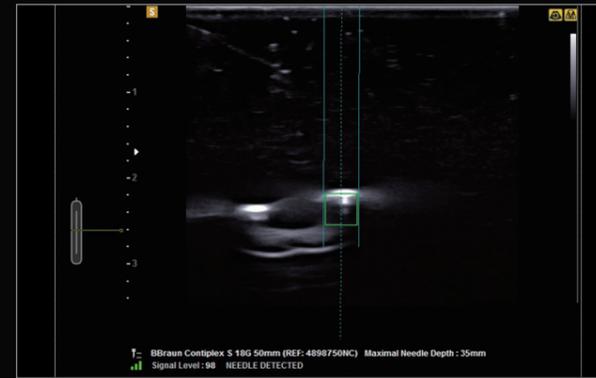
# Image gallery



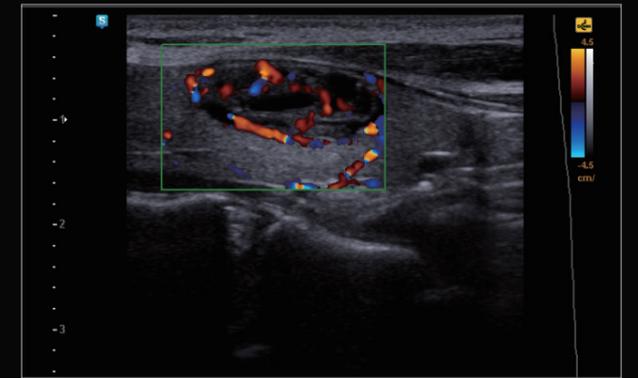
Liver



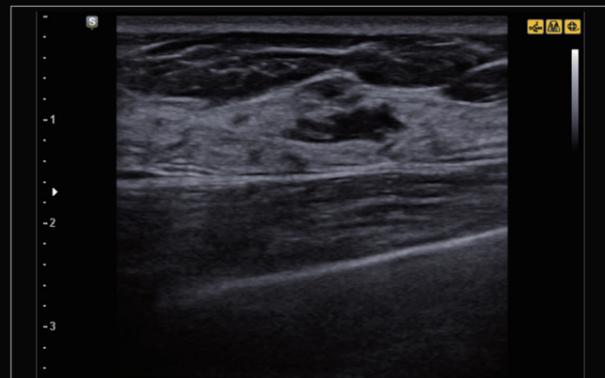
GB stone



Out-of-Plane with NeedlePilot™ (Phantom)



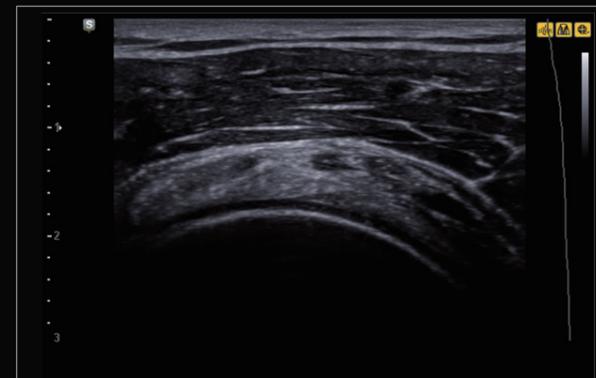
Thyroid nodule with color



Breast



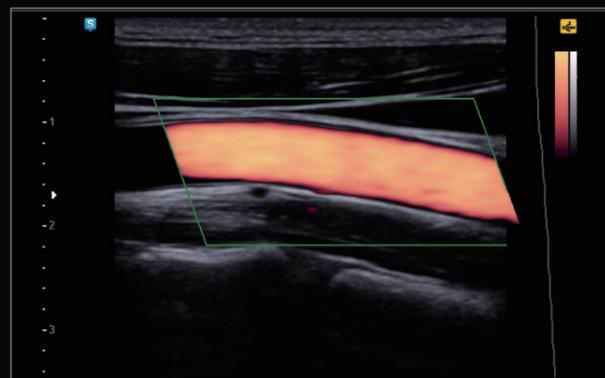
Carotid artery



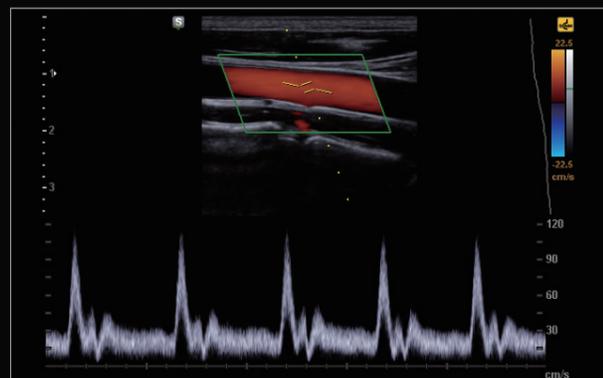
Shoulder



Cardiac



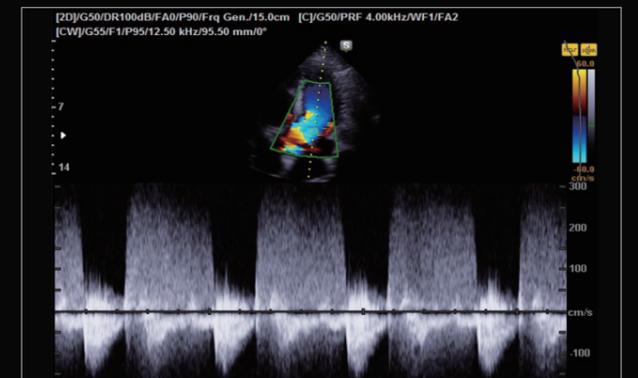
Carotid artery with power Doppler



Carotid artery with pulsed wave



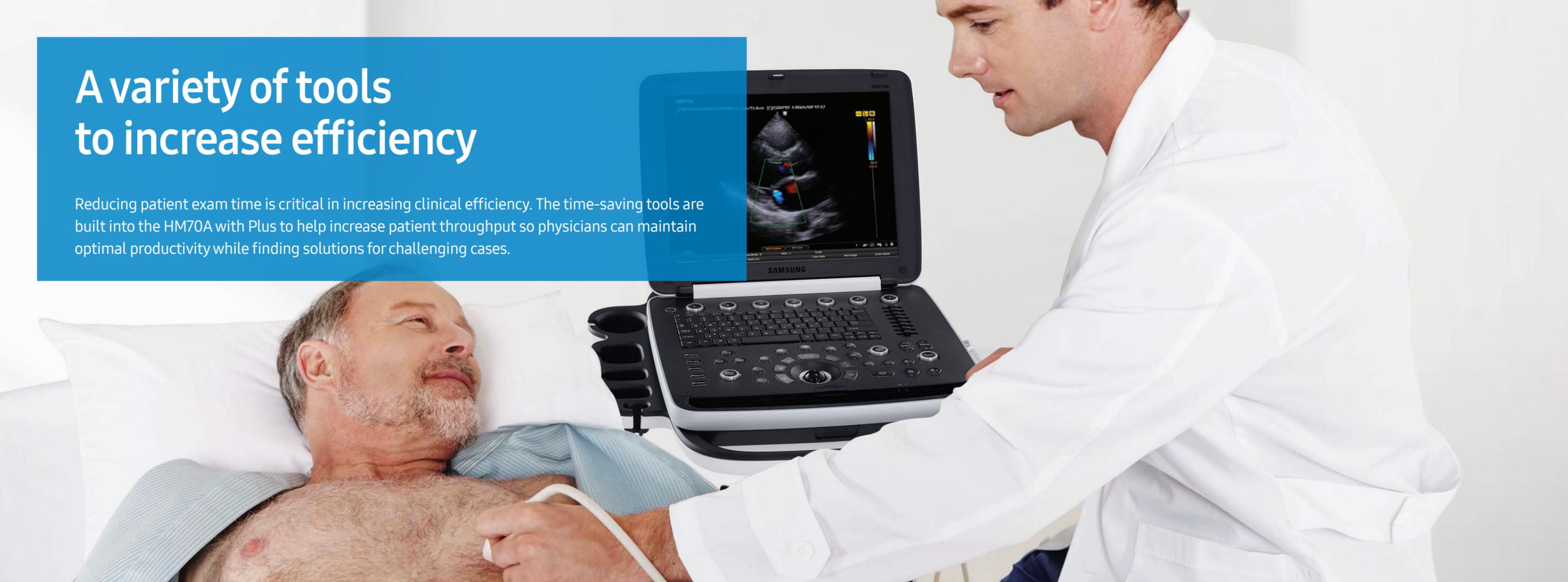
Mitral valve with color



Mitral valve with continuous wave

# A variety of tools to increase efficiency

Reducing patient exam time is critical in increasing clinical efficiency. The time-saving tools are built into the HM70A with Plus to help increase patient throughput so physicians can maintain optimal productivity while finding solutions for challenging cases.



## Fast booting

SSD technology enables powering on in 85 seconds from the powered off state, and in approximately 25 seconds from the sleep mode. With the setup utility, users can program the system to wake upon opening the lid or pressing the power button.

\* The booting times mentioned in the above sentences are based on internal tests, they could be changed on user pattern.

## ADVR™ \*

ADVR™ technology permits the simultaneous scanning and recording of an ultrasound study. The simultaneous recording can be done on an external USB device.

\* Optional Extra

## QuickScan™

Important imaging parameters can be optimized with the touch of a button, maximizing workflow efficiency. In 2D imaging, QuickScan™ quickly optimizes brightness levels by adjusting the gain and TGC controls. In PW Spectral Doppler Mode, QuickScan™ easily optimizes the spectrum by adjusting the scale and baseline.

## EzExam+™

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

# Comfort in use

The HM70A with Plus is comfortable for users because it adapts to the varying needs of physicians and sonographers with excellent ergonomics, mobility, and time-efficient features. In addition, Samsung's design principles give it a clean, slim appearance in the clinic.



## Carrier package \*

The carrier package allows you to safely and conveniently move your whole package including ultrasound system, transducers, and other accessories

\* Optional Extra

Samsung standard cart \*

## 1 Front handle \*

Users can transport the system on the optional cart or carry it by hand for easy mobility and effortless maneuverability.



## 2 Side storage \*

The side storage is ideal for storing a tablet, patient charts, or other items that you need to keep close at hand.



## 3 Extended transducer ports \*

Users can connect up to three transducers with the optional extended transducer ports on the optional cart, saving the time and labor spent on switching transducers.



## 4 Key Skin \*

Protect your investment in the HM70A with Plus against contaminants with the control panel cover.



## 5 Extended battery \*

Users can use the optional rechargeable battery for long-term operation. The extended battery supports approximately 3 hours of system operation when it is fully charged.



The battery time is based on internal tests, it could be changed based on user pattern.

## Premium cart \*

With its higher stability HM70A with Plus' premium cart offers more convenient options that provide users with easy mobility and effortless maneuverability.

\* Compared with the Samsung standard cart.



Gas lift

On-cart power outlets

Extended transducer ports

Extended battery

\* Optional Extra



# Versatile selection of transducers

## Curved array transducers



**CA1-7AD**

- Application: abdomen, obstetrics, gynecology, musculoskeletal

**CA2-9AD**

- Application: abdomen, obstetrics, gynecology

**C2-6**

- Application: abdomen, obstetrics, gynecology

**CF4-9**

- Application: vascular, pediatric, Neonatal Cephalic

## Volume transducers



**VN4-8**

- Application: abdomen, obstetrics, gynecology

**V5-9**

- Application: obstetrics, gynecology, urology

## Linear array transducers



**L4-7**

- Application: abdomen, musculoskeletal, small parts, vascular

**LA3-16AD**

- Application: small parts, vascular, musculoskeletal

**LS3-14B**

- Application: small parts, vascular, musculoskeletal

**L7-16**

- Application: small parts, vascular, musculoskeletal

**LS6-15**

- Application: intraoperative\*, musculoskeletal

## CW transducer



**DP2B**

- Application: cardiac

## TEE transducer



**MMPT3-7**

- Application: cardiac

## Phased array transducers



**PE2-4**

- Application: abdomen, cardiac, TCD

**P3-8**

- Application: abdomen, cardiac

**P4-12**

- Application: cardiac, pediatric, Neonatal Cephalic

## Endocavity transducer



**EVN4-9**

- Application: obstetrics, gynecology, urology

\* The intraoperative clinical application is not supported in Canada.