

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, in 110 countries 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 world's best IT, image processing, semiconductor and communication technologies into medical devices.

CT-UGEO-HM70A-GI-131030-EN



Excellence on the Move




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UGEO HM70A


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DELIVER EXCELLENCE WHEREVER YOU GO

Featuring the latest in advanced imaging technology all incorporated in a compact hardware, the new UGEO HM70A is the perfect choice for physicians and sonographers who want to deliver excellence in clinical efficiency and patient care wherever they go. UGEO HM70A assists greatly in making ultrasound exams and ultrasound-guided procedures more accurate and simple with its image performance and efficient, easy-to-use features. Furthermore, UGEO HM70A offers versatile portability through its slim and compact design, thus reinforcing the productivity of the users' clinical environments.



ULTIMATE ACCURACY

High quality clinical images strengthen users' diagnostic confidence thus enabling more accurate diagnoses.



EASE OF USE

Intuitive easy-to-use features simplify and increase productivity of examinations.



FAST AND TIME SAVING

Quick boot time and accelerated processes help users attend to more patients in fast-paced clinical environments.



UNCOMPROMISED IMAGE QUALITY

High quality image is the key to accurate diagnosis and of utmost importance for physicians using ultrasound in any clinical environment. Integrating innovative and intelligent imaging technologies that enable users to achieve accurate diagnosis, UGEO HM70A fulfills a wide scope of imaging needs with its superb image quality.



Needle Mate™

Using pinpoint precision, Needle Mate™ delineates the optimal needle location during interventions. This innovative technology greatly aids in medical procedures including nerve blocks in regional anesthesia, vascular access such as central venous catheter (CVC) placement, peripherally inserted central catheter (PICC) lines, and needle injections such as corticosteroid injections.

Hybrid Beamforming Engine

With this advanced technology, data is processed more quickly and accurately through optimized processing, thereby enabling more in-depth, detailed scanning with a higher energy output.

SDMR™

SDMR™ virtually eliminates unwanted speckle noise, providing excellent contrast resolution with enhanced edge definition for unsurpassed image clarity.

DPDI™

DPDI (Directional Power Doppler Imaging)™ is an innovative, highly sensitive color Doppler that can reveal peripheral blood vessels even when blood flow detection is extremely difficult.



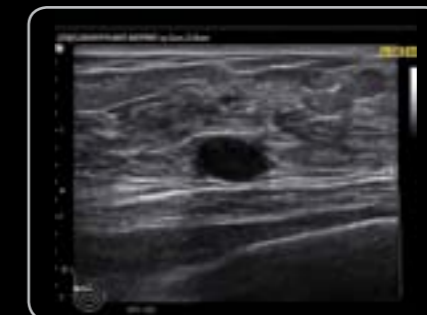
15.1-inch LCD monitor with LED backlight unit

The monitor provides superior performance, delivering exquisite detail resolution for more accurate diagnosis.

UGEO HM70A



Thyroid with SDMR™



Breast lesion with SDMR™



Abdomen with single crystal probe &
DPDI™

EXAMS MADE SIMPLER AND EASIER

UGEO HM70A's various automated functions simplify the exam workflow for users by enabling them to easily execute diagnostic processes with a simple touch without going through multiple, complex steps. UGEO HM70A's multitude of effective tools will help raise efficiency and improve quality of care.



EZ-Exam™

EZ-Exam™ transforms multiple steps into a streamlined process at the touch of a button, reducing repetition.

ElastoScan™

Designed to aid earlier detection of malignant diseases and provide functional information on the tissue, ElastoScan™ applies strain imaging technology which displays the gradient value of tissue displacement via color map. Thus, users gain useful information on tissue stiffness which was not available with conventional exams.

HDVI™

HDVI™ improves the visualization of edges and small structures in all 3D reconstructed planes. HDVI (High Definition Volume Imaging)™ quickly renders superb images at the touch of a button.



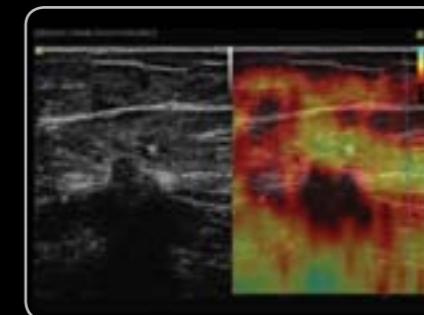
Full Screen Mode

With one touch, users can expand the image area to fit the entire screen, optimizing the view for image analysis. Users can also control various imaging parameters when in Full Screen mode.

UGEO HM70A



Thyroid lesion with power Doppler



Breast lesion with ElastoScan™



Abdomen with color Doppler

CLINICAL EFFICIENCY BOOSTED

Reducing patient exam time is critical to increasing clinical efficiency. With various time-saving tools, UGEO HM70A helps to increase patient throughput so that physicians can better focus on finding solutions to challenging cases while also maintaining optimal productivity.



HD-ADVR™

HD-ADVR™ technology permits simultaneous scanning and recording of a complete ultrasound study. The simultaneous recording can be done on an external USB device in HD format (1920x1080) or on the integrated DVD drive (720x480).

QuickScan™

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

Auto IMT™

Auto IMT™ allows for automatic measurement of the carotid artery Intima-Media Thickness (IMT) for diagnosis of the patient's risks of stroke or heart attack.

Panoramic Imaging

Users can examine wide areas that do not fit into one image as a single image by automatically displaying an extended field-of-view. Panoramic Imaging also supports angular scanning from convex and linear probe data acquisition.

Fast Booting

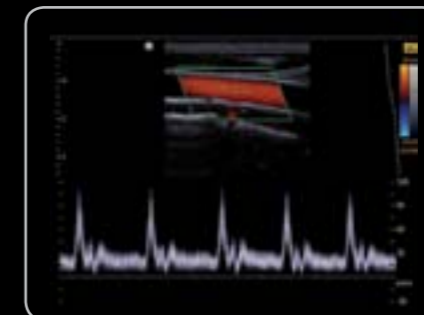
SSD technology enables powering on in 60 seconds from powered off state, and 10 ~ 20 seconds from sleep mode. With the setup utility, users can program the system to wake upon opening lid or pressing the power button.



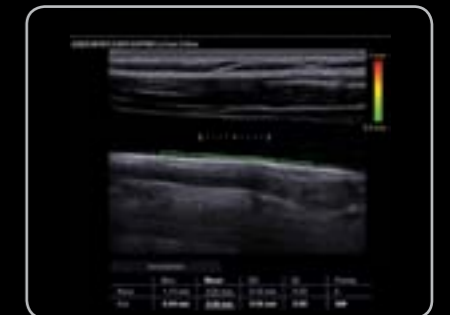
UGEO HM70A



Adult heart with color Doppler



CCA with color & spectral Doppler



IMT measured with Auto IMT

UNPARALLELED COMFORT IN USE

UGEO HM70A is designed for users' comfort by adapting to the varied needs of physicians and sonographers, including exceptional ergonomics, mobility, and expandability. In addition, it reflects Samsung's streamlined design principles for a clean, slim appearance within the clinical environment.

Backlit keyboard and control panel

Users can operate UGEO HM70A even in low-lit areas.

Front and rear handles

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

Compact and lightweight

The fully functional laptop-sized ultrasound system is slim and lightweight, at 6.1 kg (13.67 lb). Users can easily take the system to patient locations.



Features of the optional cart:

1. Gas lift

Users can adjust the height of the system on the cart without straining their arms.

2. On-cart power outlets

Users can utilize the power outlets on the cart, without having to look for multiple outlets in the exam room.

3. Storage spaces for printers

The system includes two storage areas, with cables for power and USB which can be used to store printers efficiently.

4. Extended probe ports

Users can connect up to three probes with the extended probe ports on the optional cart, saving the time and labor spent on switching probes. Furthermore, all of the three connected probes can be used even during battery mode.



VERSATILE SELECTION OF PROBES

The comprehensive selection of probes ensures a proper fit for every user's specific needs. UGEO HM70A supports volume, convex, endocavity and linear probes.

| Convex



C2-6

- Application: Abdomen, Obstetrics, Gynecology
- Center Frequency: 4.0MHz
- Field of View: 58.12°



SC1-6

- Application: Abdomen, Obstetrics, Gynecology, Contrast
- Center Frequency: 3.1MHz
- Field of View: 60°



CF4-9

- Application: Vascular, Pediatric
- Center Frequency: 5.65MHz
- Field of View 92°

| Linear



L4-7

- Application: Abdomen, Musculoskeletal, Small Parts, Vascular
- Center Frequency: 5.15MHz
- Field of View: 44.16mm



L5-13

- Application: Musculoskeletal, Small Parts, Vascular
- Center Frequency: 8.0MHz
- Field of View: 38.4mm



L7-16

- Application: Musculoskeletal, Small Parts, Vascular
- Center Frequency: 12.0MHz
- Field of View: 38.4mm

| Phased Array



PE2-4

- Application: Abdomen, Cardiac, TCD
- Center Frequency: 2.5MHz
- Field of View: 90°



P3-8

- Application: Abdomen, Cardiac, Contrast(LVO)
- Center Frequency: 4.7MHz
- Field of View: 90°

| Volume



VN4-8

- Application: Abdomen, Obstetrics, Gynecology
- Center Frequency: 4.5MHz
- Field of View: 77°

| Endo-Cavity



EVN4-9

- Application: Obstetrics, Gynecology, Urology
- Center Frequency: 6.5MHz
- Field of View: 148°

| CW Pencil Type



CW2.0

- Application: Cardiac
- Center Frequency: 2.0MHz



CW4.0

- Application: Cardiac
- Center Frequency: 4.0MHz

