EN-5000-3B01


# CTS-5000

## Full Digital Ultrasound Imaging System

- Excellent 4D Imaging
- High-Quality 2D Imaging
- Pulsed Wave Doppler
- Easy Operation Mode

4D ULTRASOUND
A USEFUL IMAGING MODALITY

SIUI

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# CTS-5000

**Full Digital Ultrasound Imaging System**

The CTS-5000 is a digital 4D ultrasound imaging system based on B&W ultrasound platform. In combination with world advanced digital imaging technology, the CTS-5000 inherits SIUI's high resolution diagnostic images. Meanwhile, it is the perfect match of 4D ultrasound imaging and B&W ultrasound, which strongly promotes the development and popularization of 4D imaging ultrasound.

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## To Bring 4D Ultrasound Imaging into Popular Use

The 4D ultrasound imaging enables real-time observation of 3D structure inside human body. Its application makes diagnosis more accurate, intuitive, complete and reliable, however most of small and medium hospitals cannot afford its high cost.

After many years' R&D, SIUI has released the CTS-5000 4D ultrasound imaging system- a high performance but low cost 4D ultrasound imaging system.

Through the perfect match of 4D ultrasound imaging and B&W imaging, the user can obtain 4D ultrasound imaging function at the mere cost of a B&W ultrasound, instead of high price for a high-end color Doppler, which dramatically reduces the purchase cost, and makes advanced technology accessible.

The CTS-5000 leads you to the 4D ultrasound imaging world!

## Excellent 4D Imaging Effect

By adopting world leading image processing techniques, such as 3D data visualization, real time volume rendering, real time 3D filtering and real time virtual lighting, the CTS-5000 is featured with excellent 4D ultrasound imaging function.

## Full Screen 4D

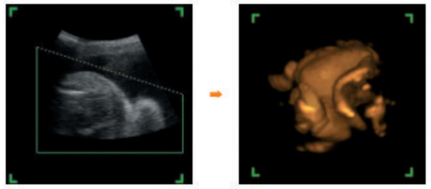
## World-leading Volume Probe Technology

SIUI is one of the few manufacturers that can develop volume probes (also called 4D probe) in the world, and its technology is in leading position.

Therefore, the CTS-5000 is endowed with high-density high-definition volume probe, ensuring superb 4D ultrasound imaging effect.

## Simple and Quick Operation

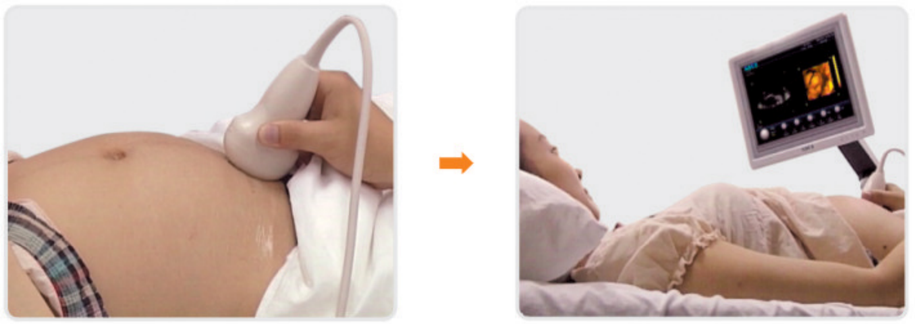
Unlike complicated operation in traditional 4D ultrasound imaging, the CTS-5000 adopts simple and quick operation method. Just with a few simple steps, the 4D ultrasound images can be easily obtained.

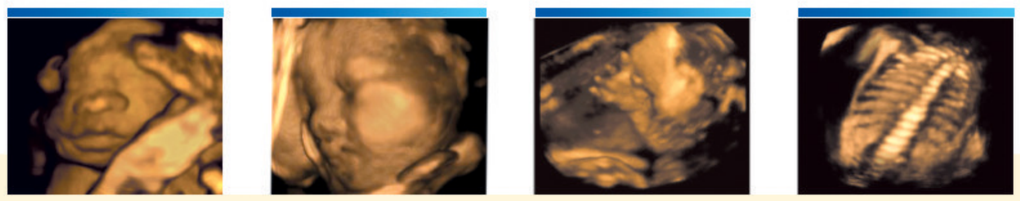


Display an ideal 2D image and perform sampling

4D imaging

With VGA port on the system, images can be transferred to a bigger screen directly to share with the parents and meet their curiosity at the undelivered baby.





Head

Face

Hand

Vertebra

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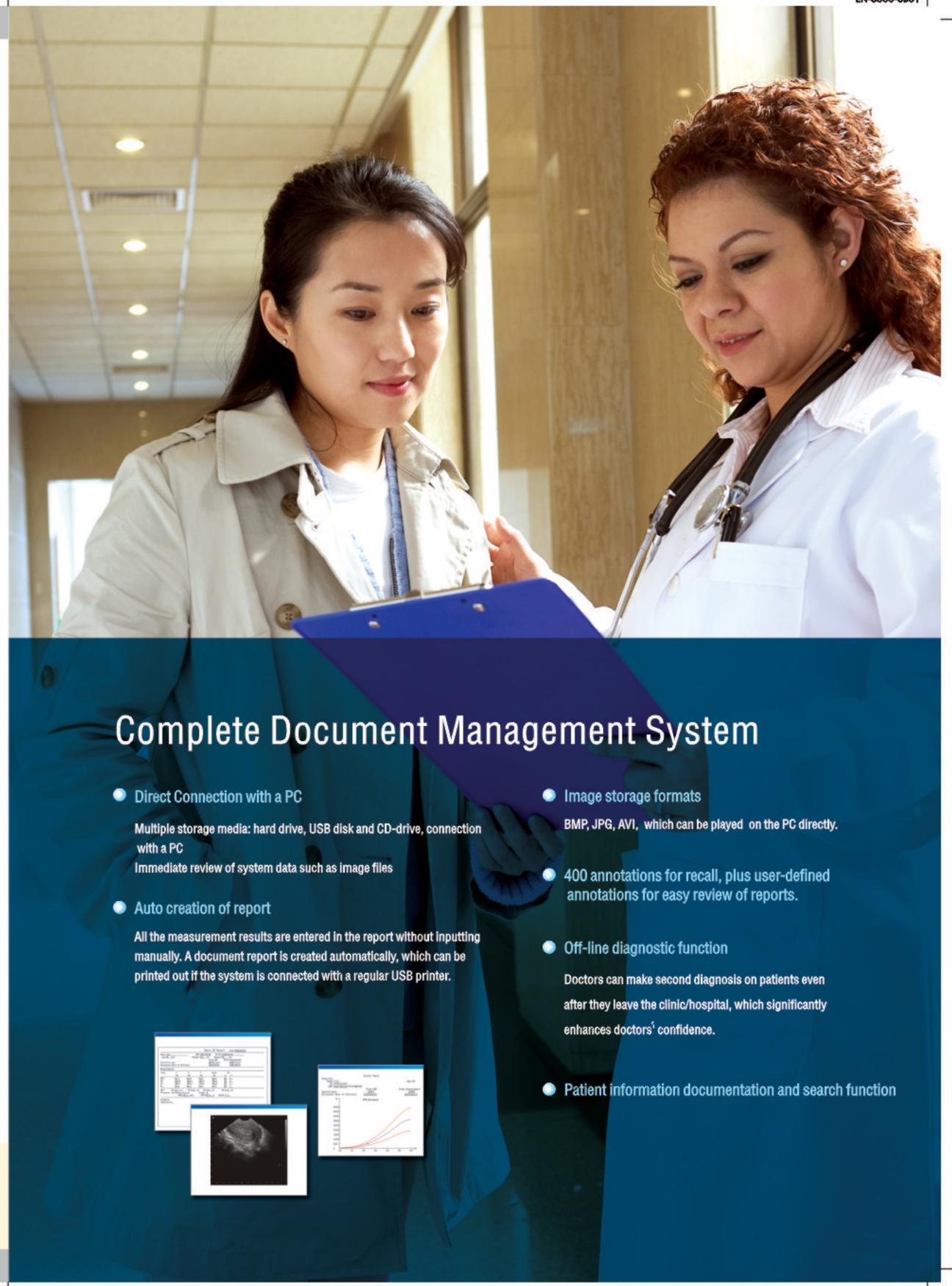

## Complete Document Management System

- **Direct Connection with a PC**

  Multiple storage media: hard drive, USB disk and CD-drive, connection with a PC
  Immediate review of system data such as image files

- **Auto creation of report**

  All the measurement results are entered in the report without inputting manually. A document report is created automatically, which can be printed out if the system is connected with a regular USB printer.

- **Image storage formats**

  BMP, JPG, AVI, which can be played on the PC directly.

- **400 annotations for recall, plus user-defined annotations for easy review of reports.**

- **Off-line diagnostic function**

  Doctors can make second diagnosis on patients even after they leave the clinic/hospital, which significantly enhances doctors' confidence.

- **Patient information documentation and search function**

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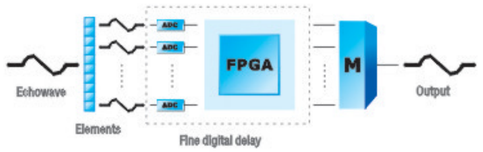
# Outstanding 2D imaging

In addition to powerful 4D imaging function, the CTS-5000 is in itself a high-end trolley ultrasound system, and it is featured with highly clear image quality and strong functions.

## High-Precision Digital Imaging Technology

- HIFI Digital Beam Forming (HDBF)
- Realtime Continuous Dynamic Focusing (RCDF)
- Realtime Dynamic Frequency Scanning (RDFS)
- Realtime Dynamic Aperture (RDA)
- Dynamic Realtime Apodization (DRA)
- High-Density Beamforming Scanning (HDBS)




Accurate beam forming and signal processing, digital image acquisition and processing ensure images with clear-cut edge and no distortion.

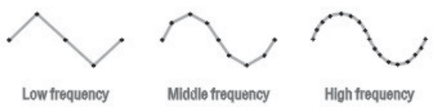
## Excellent Image Processing Technology

**Tissue Characterization Imaging**

Based on characteristics of different tissues, the optimal parameters are preset in the system for acquiring ideal images easily.

**High Frequency Sampling**

To deliver images with real representation of actual organs.



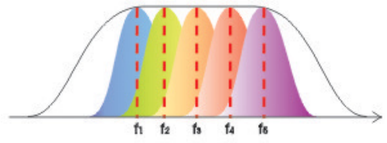

**Lossless Logarithm Compression**

**Hi-Fi Cine Function**

# Powerful Function

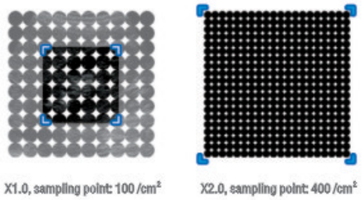
### Five-frequency Probe

Each probe has five frequencies for selection. Finer images can be obtained according to different diagnosis needs.




### Unique High-Definition Zoom Function

When scanning images, the user can double acquire data from the region of interest, making the image finer and tissue resolution higher.



X1.0, sampling point: 100 /cm² X2.0, sampling point: 400 /cm²

### PIP (Picture-in-Picture) Function

The user can zoom in any region of interest, while maintaining the original diagnostic image for reference, to observe the zoom-in part clearly, thus diagnostic efficiency is improved.

### IP One-key Optimization

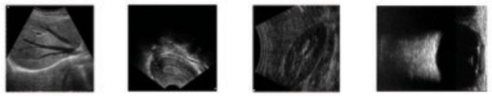
One key for eight-parameter adjustment, easy image optimization.

### Screen Saver Function

To protect the special ultrasound monitor and extend its service life.

### Convertible Image Orientation

Images can be inverted not only up/down/left/right, but 90° continuously. The doctors may observe images as they wish, clear at a glance in clinical exchange.



Original (Liver) | 180° (Uterus) | 90°CCW (Kidney) | 90° CW (Eyeball)

### Smart Tracing Function

When measuring area or circumstance, if the trace is not good, press **Backspace** to return to the proper place and then continue tracing.


### Complete M-Mode Function

- Editable screen layout for B-mode and M-mode: Up/down or left/right display for selection.
- 2560-second super large capacity for M-mode cine.

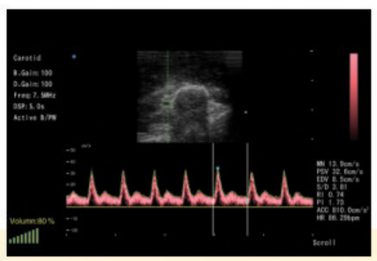
### Auto Freeze Function

To extend the service life of probes effectively.

### User-defined Function Key

The user can assign frequently used functions on certain keys. For example, assign the BPD measurement function on **F1** key. Press **F1**,and then you can access the function, which brings easy and convenient operation.

### Pulsed Wave Doppler (Option)



Measure artery flow in the palm with auto envelope, flow velocity, S/D ratio, RI, PI, acceleration, HR, etc.