



CTS-5500Plus

—Digital Portable Ultrasound
Imaging System

Appearance

- Bright color design
- Stream line shape
- Two active probe connects
- Two probe holders
- Ergonomically key layout with backlit
- 6 user-programmable keys for personal preference
- High resolution monitor
 - 10.4-inch non-interlace
 - Screen saver
- Build-in battery (Optional)
 - Working up to 5 hours

Probe

Transducer Types

- Electronic convex probe
- Electronic micro convex probe
- Electronic linear probe
- Electronic trans vaginal probe
- Electronic trans rectal probe

Probe Mode

- C3I60 convex probe
- C5I20 micro-convex probe
- L7I38 linear probe
- L7I50 linear probe
- V5H11 trans vaginal probe
- U5I50 linear trans rectal probe

Technology

Applications

- Abdomen, Urology, Gynecology,
- Obstetrics (1st Trimester, 2nd and 3rd Trimesters), Multifetation
- Thyroid, Breast, Testes, Peripheral vascular, Orthopedics, Podiatry, Superficial
- Carotid
- Cardiology
- Pediatrics Cardiac

Product data

Display mode

- B, 2B, 4B mode
- M, B/M mode
- Zoom B mode
- Tissue Harmonic Imaging

Zoom

- Realtime zooming
 - 4 Steps: $\times 1.0$, $\times 2.0$, $\times 3.0$, $\times 4.0$
- Selectable zooming position
- Zoom frozen
 - 4 Steps: $\times 1.5$, $\times 2.0$, $\times 3.0$, $\times 4.0$

Focus

- Continuous dynamic focus
- 31 focus selectable zones
- Dynamic apodization
- Dynamic aperture
- 1~4 selectable transmit focus
- Acoustic lens focus

Memory

- Cine-memory
- B-mode (max.256 frames)
- M-mode (max.2550 seconds)
- Hard disk 500 GB

Imaging Processing

2D mode

- 8-step TGC slide pots
- Gain: 0~100 dB
- Depth: 1.6~25.2 cm
- Frequency: 5 steps
- Dynamic range adjustable: 36~180dB
- Edge enhancement: 0~4
- Persistence: 0~7
- Smooth: 0~3

- Chroma: 0~8
- Grayscale: 0~23
- Power: 0~100%
- Line density: Auto
- Adjustable depth, angle and width
- Image orientation: left/right, up/down

M mode

- Gain:0~100
- Sweep speed: 4 steps (1.25s, 2.5s, 5.0s, 10.0s)
- Chroma: 0~8

Measurement & Calculation

Measurement

General

- Distance
- Trace area
- Biplane-vol
- Ellipse-vol
- Simpson-vol
- Sphere-vol
- Angle
- Area ratio (t)
- Area ratio (e)
- % area redu (t)
- % area redu (e)
- % diam.Reduce
- Histogram
- LDW Vol

Calculation

Abdomen

- Liver
 - Long Left Lobe
 - Anteroposterior Left Lobe
 - Angle Left Lobe



Product data

- Obli R Lobe
- Anteroposterior Right Lobe
- Angle Right Lobe
- Portal Vein
- IVC (Inferior Vena Cava)
- SMA (Superior Mesenteric Artery)
- CELA (Celiac trunk)
- AO (aortaventralis)
- Gallbladder
 - Length
 - Anteroposterior
 - Transverse
 - Wall
 - CBD (Common bile duct)
 - LHD (Left hepatic duct)
 - RHD (Right hepatic duct)
- Pancreas
 - Head
 - Body
 - Tail
 - MPD(Main pancreatic duct)
- Spleen
 - Length
 - Anteroposterior
 - Spleen artery
 - Spleen vein
- Left
- Right
- Bladder
 - Length
 - Anteroposterior
 - Transverse
 - Volumen
- After the urine bladder
 - Length
 - Anteroposterior
 - Transverse
 - Simpson Residual Urine
- Prostate
 - Volumen
 - PSAD (Prostate specific antigen Density)

Gynecology

- Uterus
 - Length
 - Anteroposterior
 - Transverse
 - Endometrium
- Cervix
 - Length
 - Anteroposterior
 - Transverse
- Ovary
 - Length Left
 - Anteroposterior Left
 - Transverse Left
 - Length Right
 - Anteroposterior Right
 - Transverse Right
- Follicle

Urology

- Kidney
 - Length Left Kidney
 - Anteroposterior Left Kidney
 - Transverse Left Kidney
 - Left Renal Artery
 - Length Right Kidney
 - Anteroposterior Right Kidney
 - Transverse Right Kidney
 - Right Renal Artery

- Ureter

- Volume 1
- Volume 2
- Volume 3

Obstetrics (1st Trimester)

- GS (gestation sac)
- CRL (crown-rump length)
- BPD (biparietal diameter)
- HC (head circumference)
- AC (abdominal circumference)
- FL (femur length)

Basic OB

- BPD (biparietal diameter)
- HC (head circumference)
- AC (abdominal circumference)
- FL (femur length)
- AFI
- OFD (occipitofrontal diameter)
- TAD (transverse trunk diameter)
- Placenta
- APD (Antero-posterior abdominal diameter)
- EFW
- Growth charts
- Biophysical profile

Complete OB

- CRL (crown-rump length)
- BPD (biparietal diameter)
- HC (head circumference)
- AC (abdominal circumference)
- FL (femur length)
- Q (amniotic fluid index)
- OFD (occipitofrontal diameter)
- TAD (transverse trunk diameter)
- Placenta
- APD (Antero-posterior abdominal

- diameter)
- HL (humerus length)
- TL (tibia length)
- UL (ulna length)
- RL (radius length)
- FIBL (fibula length)
- OOD (outside Orbital distance)
- LV (Lateral ventricle)
- HW (Hemisphere width)
- NT (nuchal translucency)
- FTA (fetal torso transverse section)
- CER (cerebellum transverse diameter)
- Growth charts
- Biophysical profile

Fetal echo

- AO (aorta)
- LVOT (Left ventricular outflow tract)
- PA (Pulmonary artery)
- RVOT (Right ventricular outflow tract)
- LA (Left atrium)
- RA (Right atrium)
- LV
- RV
- IVS
- ARCH
- SVC
- IVC
- LV AREA
- RV AREA
- CD
- TD

Thyroid

- Long Left Lobe
- Anteroposterior Left Lobe
- Transverse Left Lobe

- SUPA Left Lobe (Superior artery of Left Lobe)
- INFA Left Lobe (Inferior artery of Left Lobe)
- Long Right Lobe
- Anteroposterior Right Lobe
- Transverse Right Lobe
- SUPA Right Lobe (Superior artery of Right Lobe)
- INFA Right Lobe (Inferior artery of Right Lobe)
- Isthmus
- LCCA (Left common carotid artery)
- RCCA (Right common carotid artery)

Breast

- UI Left Breast (Upper internal of Left Breast)
- LI Left Breast (Lower internal of Left Breast)
- UE Left Breast (Upper external of Left Breast)
- LE Left Breast (Lower external of Left Breast)
- UI Right Breast (Upper internal of Right Breast)
- LI Right Breast (Lower internal of Right Breast)
- UE Right Breast (Upper external of Right Breast)
- LE Right Breast (Lower external of Right Breast)

Testes

- Long Left Testis
- Anteroposterior Left T Testis
- Transverse Left T Testis
- Long Left Epididymis
- Anteroposterior Left Epididymis
- Long Right Testis
- Anteroposterior Right Testis
- Transverse Right Testis

- Long Right Epididymis
- Anteroposterior Right Epididymis

Neonate

- Left LV (Left lateral ventricle)
- Right LV (Right lateral ventricle)
- 3rd (Third cerebral ventricle)
- HW (Hemisphere width)

Peripheral vascular

- Diameter
 - Left AXIA (Left axillary artery)
 - Left BRAA (Left brachial artery)
 - Left RADA (Left radial artery)
 - Left ULNA (Left ulnar artery)
 - Left FEMA (Left femoral artery)
 - Left POPA (Left popliteal artery)
 - Left DORA (Left dorsal artery)
 - Right AXIA (Right axillary artery)
 - Right BRAA (Right brachial artery)
 - Right RADA (Right radial artery)
 - Right ULNA (Right ulnar artery)
 - Right FEMA (Right femoral artery)
 - Right POPA (Right popliteal artery)
 - Right DORA (Right dorsal artery)
 - Vein

Carotid

- Left CCA (Left common carotid artery)
- Left BIF (Left common carotid artery Bifurcation)
- Left ICA (Left Internal carotid artery)
- Left ECA (Left external carotid artery)

Product data

- Right CCA (Right common carotid artery)
- Right BIF (Right common carotid artery Bifurcation)
- Right ICA (Right Internal carotid artery)
- Right ECA (Right external carotid artery)
- Voltage: AC 100V to 240V±10%(battery 14.8V)
- Frequency: 50Hz±1Hz; 60Hz±1Hz
- Rated Power: 250VA

Physical Features

Connectivity

- Video out port
- S-Video out port
- RJ-45 port
- VGA port
- 2 USB port
- Printer control port
- Footswitch port

Dimension

- Gross dimension:
- 630mm (H) X 420 mm (W) X 450 mm (D) (4 probes)
- 630 mm (H) X 325 mm (W) X 450 mm (D) (2 probes)
- Net dimension:
- 315 mm (H) X 215 mm (W) X 340 mm (D)

Weight

- Gross weight
 - 11kg (2 probes)
 - 14 kg (4 probes)
 - 12kg (with battery & 2 probes)
 - 15 kg (with battery & 4 probes)
- Net weight
 - 5.5kg
 - 6.7kg(with battery)

Power Requirements

Operation Conditions

- Ambient temperature: 0°C to +40°C
- Relative humidity: 38% to 85%
- Atmospheric Pressure: 700hPa to 1060hPa

Software & Accessories

Standard Accessories

- Power Cable
- Operation Manual
- Printer control cable
- Equipotential cable
- Fuse
- Dust-proof cover

Optional Accessories

- Trolley (CR-11)
- B/W Video printer
- LaserJet or inkjet printer
- Biopsy guide for convex or linear probe
- Biopsy guide for trans vaginal or transrecta probe
- DICOM 3.0 software
- Foot switch
- Carry case
- BNC cable
- S-video cable

Applied Standards

Quality Standards

- ISO 9001:2008
- ISO 13485:2003

Conformance Standards

- UL 60601-1
- EN 60601-1 and IEC 60601-1
- EN 60601-1-1 and IEC 60601-1-1
- EN 60601-1-2 and IEC 60601-1-2
- EN 60601-1-4 and IEC 60601-1-4
- EN 60601-1-6 and IEC 60601-1-6
- EN 60601-2-37 and IEC 60601-2-37
- EN 62304 and IEC 62304

CE Declaration

The Certification Body of TÜV SÜD Product Service GmbH declares that the aforementioned manufacturer has implemented a quality assurance system for design, manufacture and final inspection of the respective products / product categories according to Annex II section 3 of the Directive 93/42/EEC on Medical Devices.



Probe

Model mode	Applications	Transmit frequency (MHz)	Max. depth	View field	Array radius	Biopsy guide
Convex Probe						
C3I60	Abdomen Gynecology Obstetrics Urology	2.0/3.0/3.5/4.2/5.0	25.2cm	70°	R60	Available
Micro Convex Probe						
C5I20	Cardiology, Pediatrics Abdomen	3.5/4.2/5.0/6.5/7.5	15cm	110°	R20	Invalid
Linear Probe						
L7L38	Small part Peripheral vascular, Orthopedics, Podiatry	5.0/6.2/7.5/8.3/10.0	8.7cm	38mm		Invalid
L7I50	Small part Peripheral vascular, Orthopedics, Podiatry	5.0/6.2/7.5/8.3/10.0	8.7cm	50mm		Available
Trans vaginal probe						
V5H11	Gynecology 1 Trimester Urology	4.2/5.0/6.2/6.5/7.5	12.6cm	140°	R11	Invalid
Trans rectal probe						
U5I50	Urology	3.5/4.2/5.0/5.8/6.5	15cm	50mm		Invalid