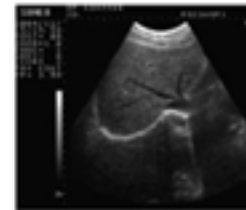


Carotid



Kidney



Liver



Fetal profile

# SONEO™

## The new standard

Portable Ultrasound System for Obstetrics/Gynaecology,  
Abdominal and General Purpose Applications

- 2 probe connectors as two probe applications are now a standard
- 10" non-interlaced high resolution monitor for high viewing comfort
- HPI™ (High Precision Imaging) technology for unprecedented image quality
- Large choice of HDMF™ (High Density Multi-Frequency) probes to ease diagnosis
- Cine and image archiving for optimum efficiency
- Easy to use, fast 3D options

SONEO



**KONTRON**  
MEDICAL

Bringing technology to life



# SONEO™ TECHNICAL SPECIFICATIONS

## GENERAL

### Applications

- Obstetrics/Gynaecology
- Abdominal
- Small parts
- Urology
- Paediatric, neonatal
- Musculoskeletal
- Intra-operative
- Cardiac

### Scanning Techniques

- Electronic convex array
- Electronic micro-convex array
- Electronic linear array

### Imaging Modes

- 2D
- 2D/2D
- M
- 2D/M

### Probes

- 2 electronic probe connectors as a standard
- HDMF™ (High Density Multi-Frequency) probes with 4 frequencies to maximize diagnosis precision
- Lightweight and ergonomically designed

### Complete alphanumeric keyboard with:

- Trackball
- Back lighted keys and controls

## Image Controls

- Overall gain
- 7 TGC
- Zoom (6 levels)

## Image Memory

- Cine mode: 64 images
- Digital archiving: 16 images

## Frame Rates

- Up to 35 frames/sec

## Video display and grey shades

- High resolution 10" non-interlaced, non-flickering monitor
- Gray scale: 256 levels
- 4 grey maps for optimum rendering of echo structures

## Screen Layout

- Hospital name, Patient name, Patient ID, Date, Time, Zoom level, Gain, operation parameters and measurements
- Probe type and frequency
- Technical data field with all pertinent imaging parameters
- Image orientation indicator
- 25 body markers
- Biopsy guide indicator

## IMAGING MODES

### Image Format

- Depth: 2 - 22 cm (probe dependent)
- Angle: 70° - 135° (probe dependent)

### Display Parameters

- Sweep speed M mode: 1, 2, 4, 8 sec/screen

### Signal Processing

- Dynamic aperture
- Up to 4 focal zones, user selectable
- Edge enhancement: 4 levels

### Image Control

- Freeze/Unfreeze
- Left/Right
- Up/Down
- Video invert

### 3D modes (options)

- 3D reconstruction
  - Instant reconstruction
  - Position sensor
  - User friendly software
- Live Baby Viewer
  - 3D movies
  - Position sensor
  - User friendly software

## MEASUREMENTS

### Calipers

- Distance
- Area
- Volume
- Circumference
- Angle
- Heart-rate

### Annotations

- Text
- Body markers

## INPUT/OUTPUT CONNECTORS

- PAL-D/NTSC compatible
- Video In
- Video Out for B/W video printer
- RS232 for data output and digital archiving

## ELECTRICAL SPECIFICATIONS AND REGULATIONS

### Electrical Specifications

- Power supply: ~ 110 V - 60 Hz ~ 220 V - 50 Hz
- Power consumption: 120 VA

### Regulations and Safety

- CE MDD mark

### Physical Dimensions

- 417 x 310 x 260 mm
- Weight: 12 kg

## TRANSDUCERS

Type	Name	Bandwidth (MHz)	Scanning Angle/Width	Depth (mm)	Applications
Convex	C2-5S6	2.5 to 5	70°	220	Abdominal, Obstetrics/Gynaecology
Convex	C2-5S4	2.5 to 5	80°	220	Abdominal, Obstetrics/Gynaecology
Convex	C3-7S4	3.5 to 6.5	90°	140	Abdominal, Paediatrics
Linear	L5-10S5	5 to 10	50 mm	90	Small Parts, Breast, Vascular
Linear	L3-7S5	3.5 to 6.5	50 mm	110	Paediatric, Small parts
Linear	LO5-12S	5 to 12	28 mm	90	Intra-operative
Endo-vaginal	EV3-7S1	3.5 to 6.5	135°	120	Obstetrics/Gynaecology
Biplane rectal*	ER5-9SB	5 to 9	60 mm	110	Urology
Micro-convex	MC2-5S2	2.5 to 5	110°	170	Cardiac
Micro-convex	MC3-7S1	3.5 to 6.5	130°	120	Paediatric, Neonatal, Vascular
Micro-convex	MC3-7S2	3.5 to 6.5	110°	120	Paediatric, Neonatal, Vascular

\* Work in progress.



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