



LARSEN & TOUBRO LIMITED



Sonata ^{Plus}

The power packed, portable
ultrasound scanner



Sonata ^{Plus}

Diagnostic Ultrasound Scanner



- 9" Integrated monitor
- Dual transducer ports
- New ergonomic keyboard
- 32-frame online Cine
- Versatility in image processing
- User customisable report formats

Non-Volatile Image and Report Memory (NVIRM)

- 100 images and 40 reports storage
- Data security against power shut downs
- Off-line patient consultation
- Post-scan calculation and report generation
- Digital archival of interesting cases in system memory

WIDE VARIETY OF APPLICATIONS SUPPORTED



FL & AC Measurements



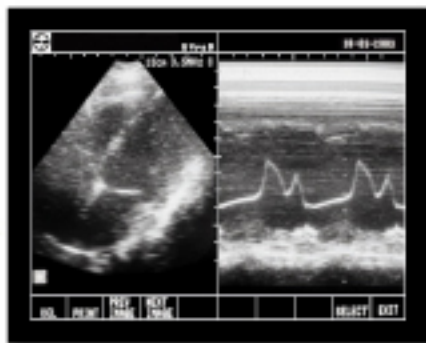
Foetal Spine



Abdominal Aorta



Gall Bladder



Mitral Valve



Kidney

WIDE BAND TRANSDUCERS

L&T has more than a decade's experience in manufacturing and development of sector transducers for a wide variety of applications

Wide bandwidth transducers transmit optimum frequency based on depth and application setting. Higher frequencies at lower depth and lower frequencies at higher depths ensure uniform resolution irrespective of depth and application setting

Sector transducers offer:

- Superb contrast resolution
- Superior gain
- Small footprint
- Ease of manoeuvrability

Unique MFT transducer offers all-in-one solution for most commonly used applications, including echocardiography, without the need for an additional transducer



CINE LOOP

Scan and review at your own pace

Sonata Plus offers 32-frame online Cine loop.

Images can be reviewed with the help of trackball immediately after freezing. Extremely convenient while scanning obstetric, traumatic, difficult-to-scan patients and in echocardiography.

Cine review speed can be varied. Measurements and calculations can be performed on cine images also.



3.5/5.0 MHz MFT[®]
General Purpose



5.0/7.5 MHz MFT[®]
Superficial, Paediatric



3.5 MHz 'A'
Abdomen, Ob/Gyn,
Urology



5.0 MHz 'B'
Paediatric-Abdomen,
Urology



3.5 MHz 'C'
Cardiology



7.5 MHz 'N'
Transvaginal



7.5 MHz 'B'
Small Parts

APPLICATIONS

• Abdomen • Obstetrics • Gynaecology • Paediatrics
• Cardiology • Urology • Small Parts.

DISPLAY MODES

B, B+B,4B, B+M, B/M, M, CINE (standard)

DIGITAL SCAN CONVERTER

512x512x8 with 256 grey scales

IMAGE PROCESSING

Separate controls for T.G.C, Gain (B&M), Reject, Near/Far, Survey/High Resolution, Enhance, Filter and Post processing.

DEPTH

6 to 23 cms (probe dependent)

SCANNING ANGLES

60°, 80°, 90° /105°

MAGNIFICATION

X2 (both in real time and frozen mode)

GENERAL MEASUREMENTS

Distance, Velocity, Area/Slope and Circumference.

APPLICATION SPECIFIC MEASUREMENTS, CALCULATIONS

Obstetrics:

LMP, GES, CRL, BPD, AC, HC, HL, OFD, HIP, FL, FHR, FW, CI, FA, EDD, Growth curves & Biophysical score

Gynaecology:

Volume calculation for Lt.Ovary, Rt.Ovary and Prostate.
Measurement of Uterus, Cervix and Endometrium

Abdomen:

Volume calculation for Lt.Ovary, Rt.Ovary and Prostate.
Measurement of Liver, Gall bladder, Spleen, Rt.Kidney, Lt.Kidney and Uterus

Cardiology:

Heart rate, BSA, Lt.Ventricle B/M-mode study. Mitral valve, Pulmonary valve, Tricuspid valve & Aortic valve study

Urology:

RUJ, PUJ, PV, Rt.Ovary, Lt.Ovary, Lt.Kidney, Rt.Kidney, Uterus and Bladder wall thickness

Small Parts:

Distance, Area/Circumference, Volume and Angle measurements for Thyroid, Orbit, Breast and scrotum

IMAGE LABELLING AIDS

Application specific body marks, user programmable annotations and multi-directional arrows

NON - VOLATILE IMAGE AND REPORT MEMORY

Storage and retrieval of up to 100 images and 40 reports

REPORT

User editable report formats for each application

DISPLAY

9" high resolution monochrome monitor

KEYBOARD

Alpha-numeric keyboard, multifunction keys and image processing controls

TRANSDUCER PORTS

Dual

EXTERNAL INTERFACE

External monitor, Thermal recorder, Inkjet printer, Footswitch(optional), External keyboard, Mouse connectivity

POWER REQUIREMENTS

200-250 VAC, 50 Hz \pm 3 Hz

OPERATING TEMPERATURE

10° to 40°C

HUMIDITY

10 to 85 %RH (non-condensing)

DIMENSIONS (in mm)

344(h) x 314(w) x 400(d)

EQUIPMENT CLASS

Class 1, Type B

SAFETY

As per IEC 60101-1
(International safety standard)

Carrybag with wheels for easy and safe transport

* Technological upgradation is a continuous process at L&T. Hence, specifications and availability of any of the products mentioned in this leaflet are subject to change without notice. Some of the accessories featured in this leaflet are optional and are not part of the standard scope of supply

Medical Equipment & Systems

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