



Fetal Lite

Next-gen AI powered fetal monitoring system

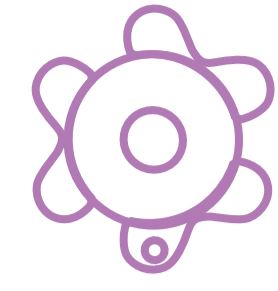
A comfortable labor monitoring experience for you and your patients



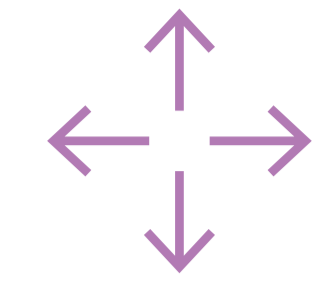
Winner, Bill & Melinda Gates Foundation GCE India award



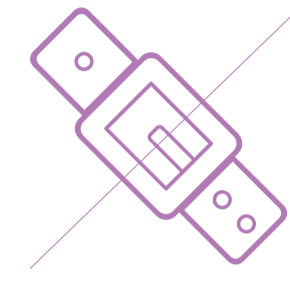
CE IIa certified



Single Probe
measuring FHR, MHR,
and Uterine Activity



Higher Movement Tolerance
Auto recalibration on fetal
and maternal movements



Ease of Use
No fetal heart localization;
No probe slippage



Superior Patient Comfort
No straps / belts ;
No gels required



Convenient
detachable tablet



Audio feedback
of fetal heart rate



Wireless data transmission
within 10 feet



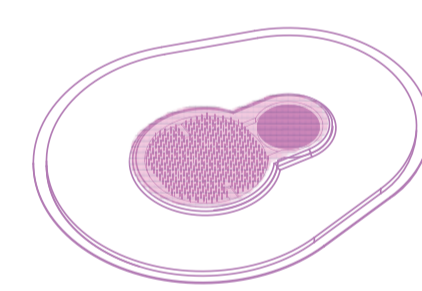
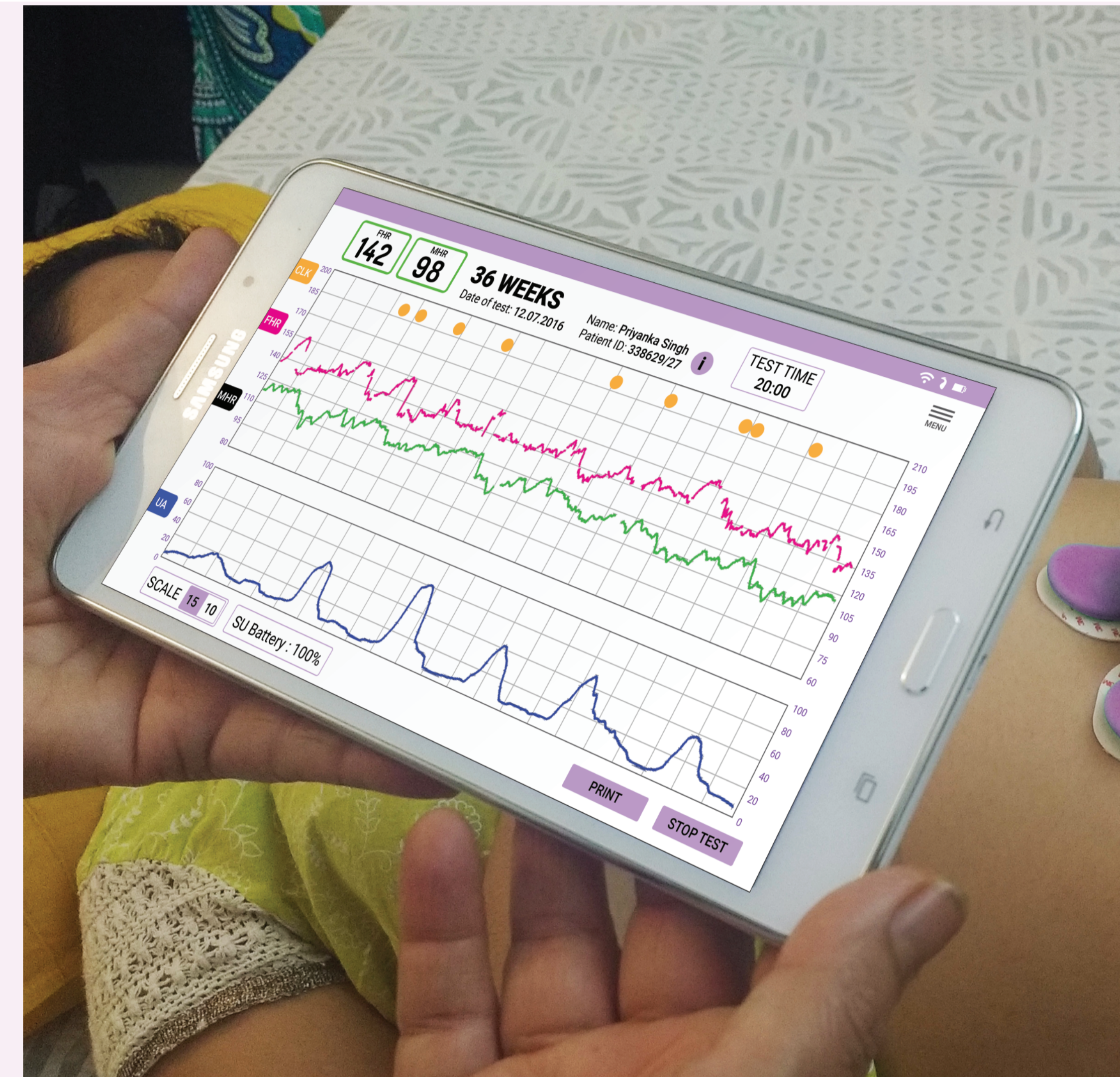
User friendly
UI/UX system



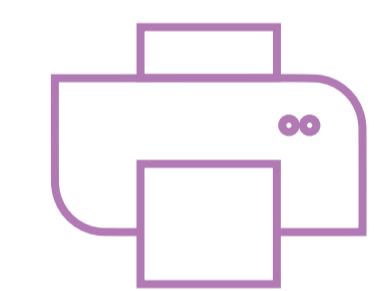
Data storage
for ~ 500 scans



Multilingual
interface



Custom high sensitivity electrodes
Easy peel and stick;
No skin preparation required



Digital and print reports
In-built printer;
Shareable PDF reports



Clicker
Handheld wireless clicker
to mark fetal movement



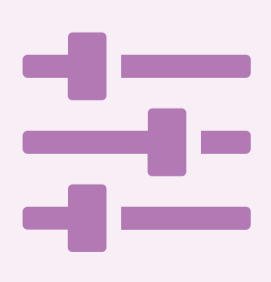
Portable Docking Station
Easy to carry;
<3 Kgs



Allows presetting
FHR alarm



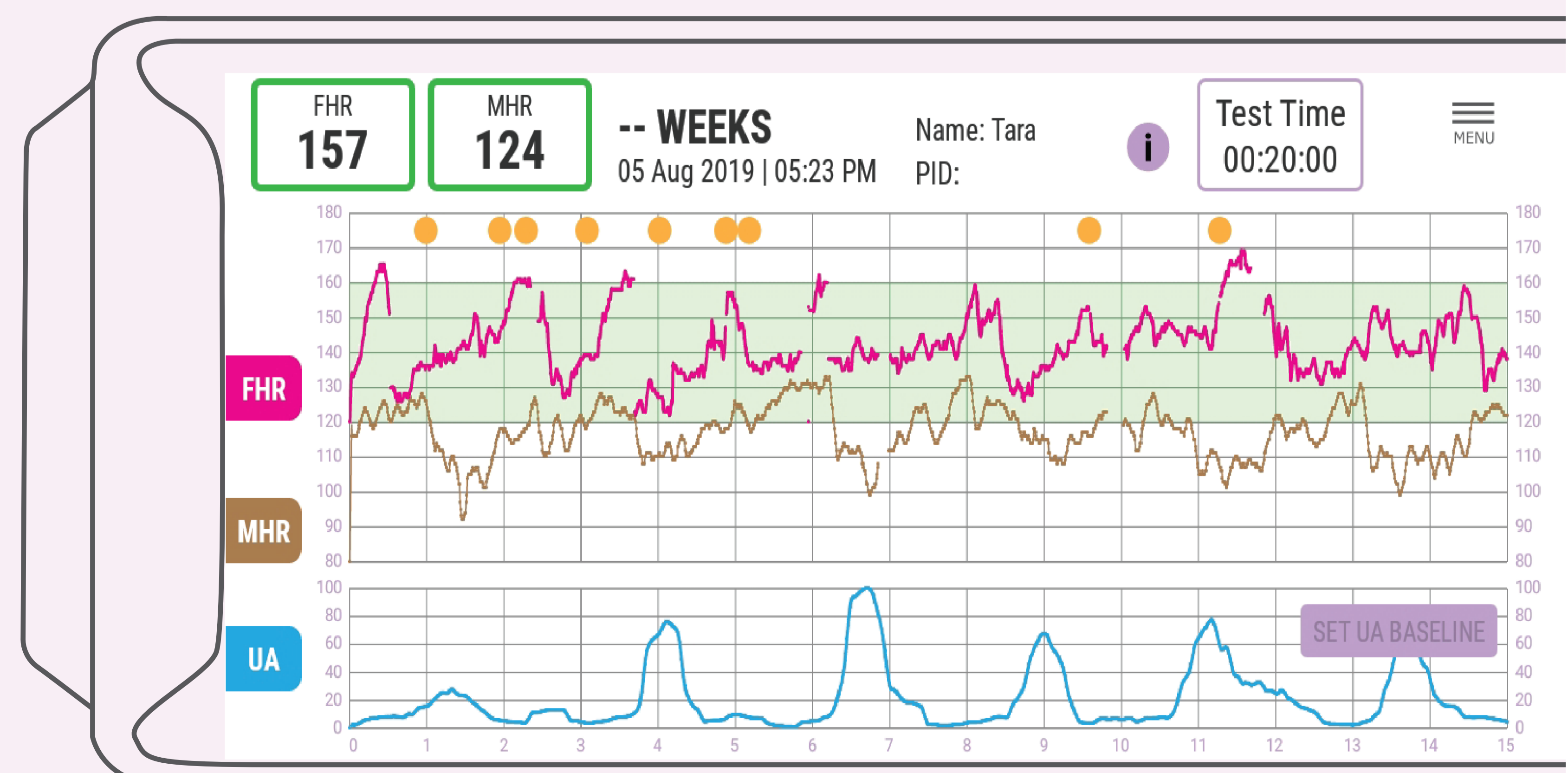
Allows adding annotations
at specific points in the tests



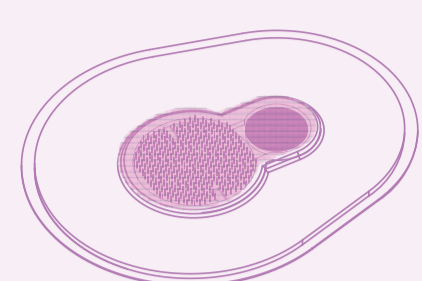
Allows customizations
in the graph visuals



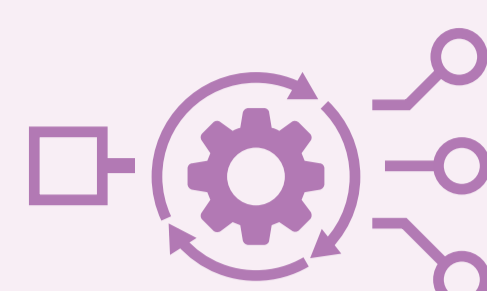
Allows scrolling
to access earlier time
stamps in longer scans



Fetal Lite uses Fetal ECG extraction technology



High sensitivity electrodes pick up electrical signals from the mother's abdomen



Proprietary signal processing algorithm calculates FHR, MHR, UA graphs



Graph displayed on detachable tablet.

ECG extraction technology has the following advantages over Doppler systems:

No fetal-maternal confusion

Displays beat-to-beat variability of FHR

Yields more accurate results than traditional Doppler system*

*Source: Monitoring Fetal Heart Rate during Labor: A Comparison of Three Methods by Tammy Y. EULIANO 2017;2017:8529816. doi: 0.1155/2017/8529816.

Fetal lite can be used for both active and remote monitoring in the following clinical settings:

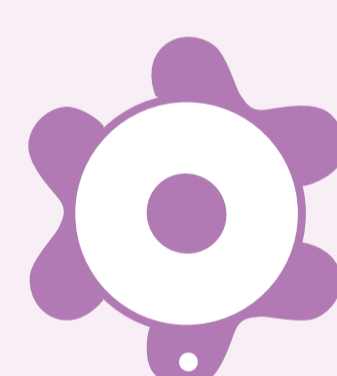


In-hospital setting

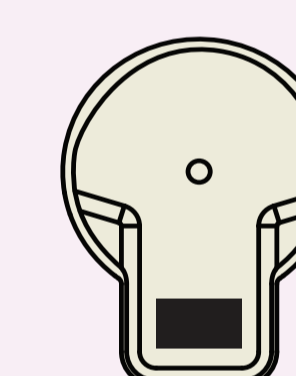


In-home settings

FL indications:



FL can be used in >36 weeks of pregnancy in singleton pregnancies



Optional add-on probe for pre 36 monitoring in singleton pregnancies

Publication:

Title: Comparative study to determine the reliability and accuracy of the Fetal Lite electronic fetal monitor when compared with conventional cardiotocography.

Results: Fetal Lite was benchmarked against 'standard of care NST-CTG system' and captured scans with 98% match. (36 patients, 1000+ minutes of comparative data collected)

*Source: B. K. Subramanian, S. Kaulgud, V. R. Joshi, G. Godbole and M. Bahulika, "Comparative study to determine the reliability and accuracy of the fetal lite electronic fetal monitor when compared with conventional cardiotocography," 2018 10th International Conference on Communication Systems & Networks (COMSNETS), Bengaluru, 2018, pp. 671-676, doi: 10.1109/COMSNETS.2018.8328293.

Awards and Grants



GCE India
Award 2019



Assocham
Medical Technology
Award 2018



IIGPTop 10 Innovator
2015



Recipient, BITS-75
charitable trust grant



Millennium Alliance
grant

Technical Specifications

Sensor Unit & Tablet

Time (measured)
Abdominal electrophysiological signal (measured)
FHR (calculated)
MHR (calculated)
Uterine Activity (calculated)
Communication
IP classification
Operating system (target device)
Screen size (target device)
Wireless communication (target device)
CPU (target device)
Storage
Monitoring software (interfaces)
Sensor unit (interfaces)
SU battery
SU battery charger (rated charging voltage)
SU dimensions
SU weight
Operating temperature
Storage temperature
Device classification
Approval

Docking System

Dock battery
Dock charger (rated charging voltage)
Thermal printer
Tablet Holder
Dimensions
Weight

Ordering Information

Fetal Lite electronic fetal monitor and tablet:
Fetal Lite EFM Monitoring Software:
Docking station :
External wall mount adapter :
Clicker :
Fetal Lite custom electrodes :

Real time clock
4 different channels
50 - 210 BPM
30 - 130 BPM
0 - 100 levels
TCP/IP v4
IP54
Android OS 5.1.1 and above
7inch screen with 800 x 1280 pixels (~216ppi pixel density) resolution
GSM - 2G, 3G, Wifi 802.11b/g/n ; 2.4, Wi-Fi Direct
Minimum 1.2 GHz Quad core processor ; 2GB RAM
Internal memory : 8GB ; External memory: Expandable 32GB/64GB/128GB.
Internal Android device storage and MicroSD Card
Touch enabled GUI, Power button
Micro USB charging port, LED Indicator - Green/Red, On/Off button
Rechargeable lithium polymer 3.7V 18650 type
DC 5V 5W, Micro USB connection
145mm x 145mm x 45mm
210g excluding electrodes
Temperature +10°C - +50°C
Temperature 0°C - +50°C
Class IIa
CE Approved

2 x Rechargeable lithium polymer 3.7V 18650 type
AC/DC 9V 4A, 36W
4 inch paper
Magnetic holder for tablet
355mm x 274mm x 92mm
3026g including tablet

SATV-FG01-JW
SATV-FG02-JW
SATV-FG03-JW
SATV-FG01-OTS01
SATV-FG04-JW
SATV-FG05-JW

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