

# SD3

## Ultrasonic Pocket Doppler



Waterproof  
Interchangeable Probe



Plug & Play



Carrying Case  
Included

The SD3 Ultrasonic Pocket Doppler provides exceptional performance at an excellent value. Boasting superb sensitivity, complete interchangeability, and high durability, the SD3 series is the ideal choice for routine fetal heart rate detection.

Designed for auscultation (intermittent listening) of fetal sound, the SD3 comes with 2 MHz or 3 MHz waterproof probes suitable for detecting fetal heart rate. The unit can also be equipped with 4 MHz, 5 MHz, or 8 MHz probe for vascular diagnosis.

## Features:

- Compact design with easy one-hand operation
- 2 MHz probe allows for deep penetration for later pregnancy
- 3 MHz probe detects fetal heartbeat as early as 9 weeks
- AA batteries for easy replacements
- Unique charger stand design available as add on
- Real-time work mode for spot check
- Built-in speaker with adjustable volume
- Option to record & play with audio playback and numeric display



## What's the Difference?

	SD3 Lite	SD3 Vascular	SD3	SD3 Plus	SD3 Pro
FHR Display	✗	✗	✓	✓	✓
Record & Playback	✗	✗	✗	✗	✓
Rechargeable Li-ion Battery	✗	✗	✗	✓	✓

# Waterproof Interchangeable Probe Options

## VASCULAR USE

- 4 MHz — **02.01.210875**
- 5 MHz — **02.01.210876**
- 8 MHz — **02.01.210877**

## FETAL USE

- 2 MHz — **02.01.210721**
- 3 MHz — **02.01.210722**

# Included Accessories

- Carry Case
- Rechargeable Lithium Polymer Battery (900mAh)

# Specifications

## PHYSICAL SPECIFICATION

### Main Unit:

Dimensions: 168 mm x 31 mm x 67 mm  
Weight: 350 g approx.(including the battery)

### Probe:

Dimensions(obstetrical probe): 39 mm x 140 mm  
Dimensions(vascular probe): 25 mm x 115 mm  
Weight: < 100 g  
Cable Length: 2 m

### Charge Stand:

Dimensions: 96 mm x 93 mm x 100 mm

Weight: < 200 g

Display: 0.96 inch OLED Double Color Screen

## POWER SUPPLY (SD3 Vascular/SD3)

3 AA alkaline battery LR6: Normal working time: ≥10 hrs

3 AA rechargeable NI-MH & Battery R6:

Normal Working Time: ≥10 hours

Charge Mode: Rechargeable battery charger

Charge time: about 5 hours

## POWER SUPPLY (SD3 Plus/SD3)

Nominal Capacity: 2600 mAh

Nominal Voltage: 3.7 V

Normal working time: ≥16 hours

Charge time: ≤6 hours

Work Temperature:

Charging Temperature: 0°C ~ +45°C +32 °F ~ +113 °F

Discharging Temperature: 20°C ~ +60°C 4°F ~ +140°F

Storage Temperature:

Within 1 Month: 0°C ~ +45 °C (+32 °F ~ +113 °F)

1 ~ 3 Month: 0 °C ~ +35 °C (+32 °F ~ +95 °F)

3 ~ 12 Month: 0°C ~ +25 °C (+32 °F ~ +77 °F)

## AUDIO OUTPUT

Output Power: 2W

## FHR

Operating Mode: CW

Working Frequency: (2 ±10%) MHz / (3 ±10%) MHz

Nominal Frequency: 2 MHz / 3 MHz

Effective Radiating Area of Transducer: (245±15%) mm<sup>2</sup>

FHR Measurement Range 50bpm ~ 240 bpm

Resolution: 1 bpm

Accuracy: ±2 bpm

Sensitivity: 9 Weeks Gestation (3 MHz)

## VASCULAR

Operating Mode: CW

Working Frequency:

(4 ± 10%) MHz / (5 ± 10%) MHz / (8 ± 10%) MHz

Nominal Frequency: 4MHz / 5MHz / 8MHz

4MHz / 5MHz / 8MHz Vascular Probe:

p- <<sup>1</sup> MPa

I<sub>ob</sub> <<sup>25</sup> mW/cm<sup>2</sup>

I<sub>spta</sub> <<sup>100</sup> mW/cm<sup>2</sup>

Effective Radiating Area of Transducer:

4 MHz / 5 MHz : (32 ±15%) mm<sup>2</sup>

8 MHz: (14 ±15%) mm<sup>2</sup>

## RECORDING AND PLAYING

Audio Sampling Frequency: 4 kHz

Recording Length: 40 seconds

## AUTO POWER-OFF

1 minute after no signal or operation,  
auto shut down.

Probe replacement, auto shut down.