

# UltraTec Pocket Doppler

## PD1 Combi

### Interchangeable Probe Doppler

The UltraTec PD1 Combi is a small, lightweight, high sensitivity pocket Doppler with interchangeable probes. The 2MHz fetal probe is ideal for use by General Practitioner or Midwife for routine antenatal fetal detection.

Fetal signals are easily located using the lightweight narrow beam probe while internal signal processing minimises noise artefacts. Connecting one of the interchangeable 5 and 8 MHz vascular probes provides an ideal tool for use by a General Practitioner for routine vascular investigation, in ER for vessel location or for monitoring pulses and systolic blood pressure and also by the specialist in diabetes or dermatology. Audio signals are available to the user via the built-in loudspeaker or optional headset with output level controlled by rotary volume control.

The unit is powered by a standard 9V battery which provides over 9 hours of use. The PD1Combi meets all current EEC standards for medical equipment.

### Features

- Lightweight unit and probes (295g typically including transducer)
- Easy to clean ABS housing
- Comes with your choice of transducer (2MHz fetal, 5MHz or 8MHz vascular). Extra transducers can be added at any time
- Cable attachment at probe end eliminates excess cables
- Battery saver system with 9 hour life
- Audio output for optional headphones
- Includes soft carry bag
- 3 year warranty



Code	Description
DPD1COMBI2	PD1 COMBI DOPPLER WITH 2 MHZ PROBE
DPD1COMBI5	PD1 COMBI DOPPLER WITH 5 MHZ PROBE
DPD1COMBI8	PD1 COMBI DOPPLER WITH 8 MHZ PROBE
DP2MHZ	DOPPLER PROBE ONLY 2 MHZ
DP5MHZ	DOPPLER PROBE ONLY 5 MHZ
DP8MHZ	DOPPLER PROBE ONLY 8 MHZ

Prepared by: Paragon Medical Pty Ltd trading as LR Instruments ABN 76 133 072 107  
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 File Name: DPD1COMBI\_Doppler-Combi\_v4-0



First Prepared: 14/11/14 Eevien Tan  
 Release Approval: 14/11/14 Lee Carter  
 Version Control: V4.0 Page 1 | 2

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## Ultrasound

Frequency	(PD1/1+ /dw <sup>ˆ</sup> r) 2 MHz continuous wave (PD1combi /v/cv) 5 or 8 MHz continuous wave**
Transducer	2 crystal narrow beam
Output power	<15mW/cm <sup>2</sup> SATA
Audio response	300Hz – 1KHz
Fetal heart rate	(PD1+ / dw <sup>ˆ</sup> r) Multipoint real time autocorrelator

## Unit Controls

Keys	1 Key (for unit on/off)
Controls	Rotary volume
Indicators	(PD1/combi /v/cv) Yellow battery low LED (PD1+/dw <sup>ˆ</sup> r) 3 digit FHR LCD display / FHR pulse icon / Battery Low icon

## Power Supply

Battery	MN1604 (PP3) 9V Alkaline Manganese
Expected - battery life	(PD1/combi /v/cv) >9 hours (PD1+/dw <sup>ˆ</sup> r) >6 hours

## Outputs

Headset	Audio output to optional headset
Serials	(PD1+/dw <sup>ˆ</sup> r) RS232 interface to optional UltraTrace 2 PC software
Recorder	(PD1v) Voltage output proportional to velocity of flow

## Enclosure

Material	ABS
Size	150mm by 75mm
Weight	295g typically including transducer

## Safety

Classification	Class 1 Type B - IEC 60601-1
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*Specification applies to all units unless otherwise indicated*

\*\* The PD1v and PD1cv are supplied with a fixed transducer – the frequency must be specified at the time of ordering.



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