

# Technical Specifications

**INTENDED USE:** Pulse rate measurement, real time charts, variability, analysis and wireless notification.

**PATENT:** US Patent #6897773

**CE notice:** Chest strap sensor/transmitter: N2965 CE0537 indicates compliance with European medical device directive.

**FCC notice:** FCC ID: QU8FOURCAST, QOQWT12.  
Declaration of conformity to FCC Rule part 15.

**TCB notice:** Grant of equipment authorization.  
Declaration of conformity to FCC Rule part 2.931.

**ANSI notice:** Declaration of conformity to ANSI standard C63.4-1992.

**UL listed:** 81J1E81356.

**FEATURES:** Provides fast reliable pulse rate measurements on any person.  
Non-invasive.  
Wireless convenience. Coded to prevent interference. No wires to entangle or restrict the movement of a person. No contact gels to irritate the skin.  
Ideally suited for use in homes, gymnasiums, sports, work place, at a picnic.  
Tele-monitoring from a remote location.

**METHOD OF POWER:** Chest sensor/transmitter (5KHz 3feet)

Battery type: CR2025

Battery life: Approximately 2500 hours or 2 years (1hour/day, 7 days/week).

Chest sensor/transmitter (Bluetooth 2.4-2.4835MHz 33feet) Rechargeable 90% in1 hr, 100% in 3hrs 26 hr charge cycle.

Repeater:

Battery type: Size AA. Rechargeable. 1.5volt. Nickel metal hydride.

Charging circuit includes a 2amp fuse and monitoring to prevent overcharging.

Time between charges (inside device): 48 hours.

Battery life: Approximately 1000 recharges in 2 years.

Receiver:

5 volts USB computer port.

Charger:  
Wall transformer: CUI Stack DPD030040-P7-DK.  
Input 120VAC 60 Hz 4W. Output 3VDC 400mA  
Model No. DV-3400

OPERATING TEMPERATURE: 14degF to 122degF  
(-10degC to 50degC).

DIMENSIONS: Chest sensor/transmitter: 2.5x1.5x0.5 inch hard plastic enclosure  
Chest strap: 1.125 inch wide. Adjustable length.  
Repeater: 2.75 x 2 x 0.8 inch.  
Charger: 2.125 x 1.375 x 1.375 inch.  
Receiver: 2.75 x 2 x 0.8 inch.

WEIGHT:	Chest sensor/transmitter	1.0	
	Chest strap	1.3	
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	Chest total ( <b>on body</b> )	<b>2.3</b>	
	Repeater (in pocket)	2.7	1.8 (without battery)
	Receiver (remote)	3.0	
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	Grand total	8.0 ounces	

MATERIALS: Sensor/Transmitter: Hard plastics enclosure. Polyamide.  
Water proof up to 30meters (100 feet).  
Chest strap: Polyurethane, polyester, polyamide, nylon and natural rubber  
including a small amount of latex.  
Repeater: Hard plastic enclosure.  
Receiver: Hard plastic enclosure.  
Plastic covered metal wire cable between receiver and computer.

DATA COMMUNICATIONS:  
Wireless to computer via USB port. Coded to prevent interference

INFORMATION DISPLAY:  
Computer screen: Real time. Beat to beat numeric pulse rate. Time chart of current pulse  
rates and archived pulse rate log for up to approximately 1 year for 1000 users. Hard  
copy printable.