

pulse oximetry

# Voyager Pulse Oximeter

- Pocket PC compatibility that enables Voyager to be used with a medical drug database such as Mobile PDR.
- Ability to save and restore patient waveforms, trend data, and voice/text annotations.
- Synchronized voice event marking.
- Perfusion index.
- Patented FFT technology.
- Low perfusion performance.

Dolphin Medical's Voyager is the world's first portable high-performance oximeter in a Pocket PC platform. The Voyager uses Dolphin Medical's ONE™ (Oximetry Noise Elimination) technology, which is the first and only oximetry system that incorporates digital sensors - all others still use analogue sensors. Dolphin ONE™ sensors both amplify and digitize the signal in the sensor, resulting in a stronger and higher quality signal.



Compaq iPaq sold separately



**VIAMED**

# Voyager Pulse Oximeter

## Power

Typical	60 mA (200mW)
Rechargeable Lithium Polymer Battery	
Nominal battery life between charges	2 hours

## Environmental

Operating temperature	0 °C to + 40°C (32°F to 104°F)
Storage temperature	-20°C to +60°C (-4°F to 140°F)
Operating humidity	20% to 90%, non condensing
Operating altitude	-304 m to 5,486 m (-1,000 ft to 18,000 ft) 503 mbar to 1059 mbar

## Range

SpO <sub>2</sub> (functional)	0%-100%
Pulse rate (beats per minute)	30-235
Nominal perfusion	0.08%-20%

## Resolution

SpO <sub>2</sub> (functional)	
Normal mode	1%
Intermediate mode or advanced mode	0.1%
Pulse rate	1 bpm

## Physical Characteristics

Size	
CF Card	36 x 43 x 3 mm (1.4 x 1.7 x 0.1 inches)
Cable length	1.5m (5 ft)
Cable connector	Keyed Dolphin ONE 9-pin Female
Weight	
iPaq & CF Sleeve	265g (9.4 ounces)
Cable & CF Card	84g (2.4 ounces)

<b>Trending</b>	20 hours of trending
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## Voyager Modes

Averaging	Smart algorithm utilising 4 to 12 second data stream, depending on signal to noise ratio
Sensitivity	Normal and High
Patient types	Adult, Paediatric and Neonatal

## Display

SpO <sub>2</sub> , pulse rate, pleth waveform, perfusion indicator, pulse tone
Alarm status, trends, status messages
Touch screen graphical user interface
Colour backlit LCD
320 x 240 pixels

## Standard interface for clinical use

Synchronized voice event marking
Companion software for Windows
Full photo-plethysmogram disclosure

## Sensors

Reusable finger clip, model 210 (Adult and Paediatric >30 kg)
Disposable, model 520 (Adult and Paediatric >30 kg)
Disposable, model 560 (Paediatric and Neonatal ≤30 kg)

## Regulatory approvals

U.S. patents 05575284 and 05803137
Approved for marketing by: CE, FDA, UL and CSA

## Accuracy

### SpO<sub>2</sub> (functional)

Adult or Paediatric >30 kg	70-100%	±2%
	0-69%	Unspecified
Neonate	70-100%	±3.5%
	0-69%	Unspecified

No motion and normal perfusion

### Pulse rate (beats per minute)

Adult, Paediatric or Neonate	30-235 bpm	±3 bpm
No motion and normal perfusion		

### SpO<sub>2</sub> (functional)

Adult or Paediatric >30 kg	70-100%	±3%
	0-69%	Unspecified

Low perfusion <0.2%

### Pulse rate (beats per minute)

Adult or Paediatric >30 kg	30-235 bpm	±5 bpm
Low perfusion <0.2%		



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Specifications subject to change.

Please contact Viamed for further specifications and information.

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