

# PEARL10 TFT

## PEARL10C TFT

SpO<sub>2</sub>  
Pulse

Digital  
Artefact Suppressing  
Pulse Oximeter with  
TFT Screen and  
Charger Stand (Option)



Made in  
Germany

### Features

- Reliable measurement of SpO<sub>2</sub> and pulse rate
- Efficient artefact suppression
- Works reliably on low-perfused patients
- High quality and brilliant contrast TFT screen
- Can be used on adults, infants and neonates
- Trend and waveform display on TFT screen
- Integrated statistical analysis of the stored data
- Adjustable alarm limits, visible and audible alarms
- Saturation dependent pulse tone with adjustable volume
- Unlimited storage on standard MiniSD card
- Infrared interface for thermal printer
- Also available with charger stand (PEARL10C)

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# PEARL10(C) TFT

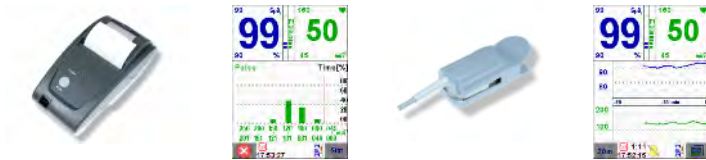
## Digital Handheld Pulse Oximeter



The PEARL10 Pulse Oximeter features a bright, crisp TFT display. Despite of the high quality of its screen, the device works for more than 50 hours on one set of batteries. It is the first handheld unit that works with Medlab's new PEARL® technology. „PEARL“ stands for „Pulse Enhancement Artefact Rejection Logic“, a method for amplifying pulses and suppressing artefacts. With its new digital signal processing technology, the device works reliably in difficult situations, for example, on low perfused patients and during heavy patient movement. The PEARL10 features practically unlimited memory capabilities, since common MiniSD cards can be used for data storage. These cards can be directly used on any PC later. It is also possible to statistically evaluate the stored data directly on the large TFT screen. The standard display can be set to three different modes: large numerical, numerical - waveform and numerical - trend. A version with charger and built-in rechargeable battery pack is available (PEARL10C).

## Applications

- Sleep apnea screening
- Monitoring of patients showing low perfusion
- Measurement during patient movement



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## Technical Data

### Pulse Oximeter:

*SpO<sub>2</sub>*  
Measuring range: 0 ... 100 % SpO<sub>2</sub>  
Display range: 0 ... 99 % SpO<sub>2</sub>  
Accuracy: adults +/- 2 % (70-100 %)  
artefacts +/- 3 % (70-100 %)  
infants +/- 3 % (70-100 %)  
(not specified below 70 %)

*Pulse rate*  
Measuring range: 30 ... 250 min<sup>-1</sup>  
Accuracy: +/- 1 %  
Averaging SpO<sub>2</sub>: 10, 20 or 30 seconds  
Alarms: Adjustable alarms for SpO<sub>2</sub> and pulse rate, low battery, probe disconnected

### Device:

Dimensions, weight: 170 x 78 x 25 mm, approx. 240 g  
Operating temp.: PEARL10: -20 ... 45 °C  
PEARL10C: 0 ... 45 °C  
Power supply: PEARL10: four AA batteries  
PEARL10C: NiMH battery pack with fast charger  
Power consumption: 250 mW with full backlight  
Display: 2.8" TFT screen, 65536 colours  
Brightness: 20 ... 100 %, „Auto“ mode available  
Memory: 55 h internally  
Memory resolution: One sample pair every 6 sec.  
Interface: IR printer interface  
SD card: MiniSD card  
Data format: Selectable, 3 formats  
Resolution: Adjustable, 1 sec to 60 sec

### Accessories:

00901	Carrying pouch
00904	Rubber protection boot
00110	Thermal printer with IR interface
00133	Fixation for infusion pole
00137	Fixation for anesthesia rail
00150	Poxilog Software
00320	Probe extension cable (120 cm)

All Medlab PEARL SpO<sub>2</sub> probes  
(see separate brochure)

### Delivery:

#### PEARL10 (04200):

Pulse oximeter PEARL10  
Four AA batteries  
Fingerclip probe P-200, reusable  
Operating instructions

#### PEARL10C (04250):

Pulse oximeter PEARL10C  
Rechargeable battery pack  
Docking station with charger  
Fingerclip probe P-200, reusable  
Operating instructions