

PEARL10 TFT

PEARL10C TFT

SpO₂
Pulse

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



Made in
Germany

Features

- Reliable measurement of SpO₂ 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

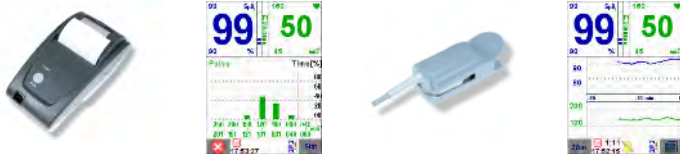
Digital Handheld Pulse Oximeter



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:

SpO₂
Measuring range: 0 ... 100 % SpO₂
Display range: 0 ... 99 % SpO₂
Accuracy: adults +/- 2 % (70-100 %)
artefacts +/- 3 % (70-100 %)
infants +/- 3 % (70-100 %)
(not specified below 70 %)

Pulse rate
Measuring range: 30 ... 250 min⁻¹
Accuracy: +/- 1 %
Averaging SpO₂: 10, 20 or 30 seconds
Alarms: Adjustable alarms for SpO₂ 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 SpO₂ 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