

# VITRO

## Vital Signs Monitor

Systolic Pressure  
Diastolic Pressure  
MAP  
SpO<sub>2</sub>  
Pulse



### Features

- Crisp, easily readable TFT colour display
- Integrated context sensitive help system
- Plethysmogram, blood pressure, pulse, SpO<sub>2</sub>
- Integrated 100 h trend display
- Automatical (cycled) or manual blood pressure measurement
- Adjustable alarm limits for all parameters
- Visible and audible alarms
- Saturation dependent pulse tone with adjustable volume
- IR Interface for thermal printer and PC
- Housing with integrated power supply, battery and carrying handle



# VITRO

## Vital Signs Monitor



The VITRO uses the advanced PEARL\* pulse oximetry and a NIBP technology that works well from neonates to adults. The device can therefore be used in even the most demanding environments. The VITRO features an extremely well readable, and crisp colour TFT screen.

The very reasonable price also makes the VITRO the ideal choice for ambulances and physician's practices, including patient monitoring in day surgery.

The VITRO works with mains supply as well as with an integrated internal battery (approx. 4 h). The device shows systolic, mean, and diastolic pressure, SpO<sub>2</sub> values, pulse rate and the plethysmographic waveform of the patient.

## Applications

- Anesthesia Monitoring
- Blood Pressure Control
- Affordable Hemodiagnostic Monitoring

\* Pulse Enhancement Artefact Rejection Logic



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tomorrow's medical devices

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## Technical Data

### Pulse Oximeter:

Measuring Range:	0 ... 100% SpO <sub>2</sub>
Display Range:	0 ... 99% SpO <sub>2</sub>
Accuracy:	adults +/- 2% (70-100%) children +/- 3% (70-100%) (not specified below 70%)
Measuring Range:	30 ... 250 min <sup>-1</sup> pulse rate
Accuracy:	+/- 1%

### Blood Pressure

Measuring Range:	25 ... 280 mmHg (Systole)
	15 ... 260 mmHg (MAP)
	10 ... 220 mmHg (Diastole)
Neonates:	20 ... 155 mmHg (Systole)
	10 ... 130 mmHg (MAP)
	5 ... 110 mmHg (Diastole)
Overpressure protect.:	300 mmHg
Other:	Security system against excessive pressure according to EN1060-3
Accuracy:	According to EN 1060-4:2005 Medium value deviation < 5 mmHg Standard deviation < 8 mmHg

### Device:

Mains:	115/230 V, 50/60 Hz
Battery:	NiMH (7,2 Volt 2000 mAh)
Display:	TFT LCD with backlight
Curve Speed:	12 mm/sec or 25 mm/sec
Memory:	100 hours of trend memory
Other:	Integrated realtime clock
Interface:	Infrared interface
Alarm Limits:	Adjustable
Alarms:	Visual and audible alarms
Dimensions:	80 mm x 230 mm x 200 mm
Weight:	1.700 g
Housing:	ABS

### Accessories:

00138	Fixation for infusion pole
00135	Transmission cable for PC
08060	Adapter for analog output
01960	Adapter for nurse call systems
08055	Adapter for USB memory stick
00110	Thermal printer
00801	Carrying bag

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

### Delivery:

Device VITRO (04100)  
Mains cable  
Operating instructions  
Fingerclip probe P-100, reusable  
Patient cable SpO<sub>2</sub> (150 cm)  
Blood pressure hose with quick lock system  
Small, normal, and adult blood pressure cuff