

# MDPRO4500

## Patient Monitor

The feature packed 4500 series is a versatile and reliable device that provides accurate and real-time monitoring of vital signs for patients in various clinical settings. The monitor has a user-friendly interface that allows clinicians to easily navigate and customize the settings according to their preferences.



1200

NIBP  
Measurement

120 HR

Trend  
Review

12 IN

Screen  
Size

120 S

Frozen  
Waveform

## Features

- 12" High resolution color screen with optional touch screen
- Pacemaker detection
- Built-in WiFi
- Electrosurgical interference proof
- Defibrillation protection and defibrillation synchronization
- Pleth waveform and pitch tone sensitivity
- Water-proof and dust-proof keypad design
- Available with Respironics LoFlo, Respironics Capnostat5, or G2 Co2

**Standard Parameters:** 3/5-lead ECG, HR, RESP, SpO2, NIBP, PR, 2-TEMP

**Standard Features:** Shortcut Menu, VGA Output, 120-hour trend storage, Defib Proof, Sync and 2-IBP

**Optional Parameters:** Nellcor OxiMax™ SpO2, SunTech NIBP, MDPro G2 CO2 (Sidestream), Respironics CO2 (Mainstream and Sidestream), Masimo Anesthesia Gas/O2

## MASIMO Anesthetic Gas/O<sub>2</sub> (Mainstream/Sidestream)

- Unique plug & play module for anesthetic gas monitoring
- No moisture sampling line design suitable for all clinical application
- A stable low flow of 50ml/min

PHASEIN offers both the IRMA™ Mainstream Analyzers & the ISA™ Sidestream Analyzers which have the ability to measure CO<sub>2</sub>, N<sub>2</sub>O, anesthetic agents (HAL, ENF, ISO, SEV, DES) while providing automatic agent identification. The ISA OR+ module will also measure O<sub>2</sub>.



## Highlights



No-fan Design



Pitch Tone



Optional  
Thermal Recorder



Shortcut  
Menu

## End Tidal Carbon Dioxide Monitoring



### G2 CO2 (sidestream)

Superior water trap design for accurate monitoring  
iCARB™ algorithm with Intelligent CO2 pseudo wave  
identification technology

### Respironics CO2 (mainstream/sidestream)

Plug & play module design  
Dehumidification tube instead of water trap  
Low sampling rate of 50ml/min



Primary Care



ASC



Dental

# Configurations

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## **MDPro4500\_wifi**

Standard Configuration with WiFi

## **MDPro4500\_wifi.P**

Standard Configuration with WiFi & Built-in Thermal Printer

## **MDPro4500\_Touch\_WiFi**

Standard Configuration with Touch Screen & WiFi

## **MDPro4500\_Touch\_WiFi.P**

Standard Configuration with Touch Screen, WiFi & Built-in Thermal Printer

## **MDPro4500-G2\_wifi**

Standard Configuration with internal CO2 & WiFi

## **MDPro4500-G2\_wifi.P**

Standard Configuration with internal CO2, WiFi & Built-in Thermal Printer

## **MDPro4500-G2\_Touch\_WiFi**

Standard Configuration with internal CO2, Touch Screen & WiFi

## **MDPro4500-G2\_Touch\_WiFi.P**

Standard Configuration with internal CO2, Touch Screen, WiFi & Built-in Thermal Printer

# Accessories

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## **STANDARD ACCESSORIES**

- Skin Temperature Probe — **01.15.040187**
- EDAN Adult Reusable SpO2 Sensor — **02.01.210119-11**
- Adult Cuff (25cm-35cm) — **Cuff.E9**
- NIBP Tube (3m) with connector — **01.59.036118-11**
- 3-lead ECG integrative Cable, Snap (AHA) — **01.57.471095-10**
- Rechargeable Lithium-Ion Battery (14.8V, 4200mAh) — **01.21.064143**
- Power Cord — **01.13.036106**

## **G2 ACCESSORIES**

- Edan Dewatering Cups for G2 Co2 — **02.01.210520**
- ETCO2 Sampling Cannulas, Adult cannula with 7' CO2 line. Male Luer-Lok Connector — **4000-7-25**
- ETCO 2 Sampling Lines 10' Male to Female) — **4410-10-25**

# Optional Accessories

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## **SPO2 SENSORS & CABLE**

- Adult Hard-Shell SpO2 Finger Sensor (DB9) — **SH1.DB9**
- Silicone Wrap SpO2 Finger Sensor (DB9) — **SH3.DB9**
- Adult "Hood" Soft-tip SpO2 Finger Sensor (DB9) — **SH4.DB9**
- Adult/Pediatric Ear Clip SpO2 Sensor (DB9) — **SH6.DB9**
- Extension Cable (2m, lemo to DB9) — **01.13.210001-13**

## **CUFFS**

- NIBP Cuff, Infant, 10-15cm, reusable — **Cuff.E5**
- NIBP Cuff, Small Child, 13-17cm, reusable — **Cuff.E6**
- NIBP Cuff, Child, 16-21cm, reusable — **Cuff.E7**
- NIBP Cuff, Small Adult, 20.5-28cm, reusable — **Cuff.E8**
- NIBP Cuff, Adult, 27cm-35cm, reusable — **Cuff.E9**
- NIBP Cuff, Large Adult, 34cm-43cm, reusable — **Cuff.E10**

## **TROLLEY**

- Center Pole Trolley (roll stand) with basket and locking casters (23lbs, 31x24x9) — **MT-207\_plate\_mdpro4500**

## **WALL MOUNT**

- IM.WM

## **PAPER (Sold in Packs of 20)**

- 01.57.78035

# Specifications

## PHYSICAL SPECIFICATION

Device Dimension:  
328mm(L) × 158mm(W) × 285mm(H)  
Weight: < 5.5 kg

## DISPLAY

Color TFT LCD: 12.1"  
Resolution: 800x600  
Traces Displayed: Up to 8  
Waveforms Displayed: Up to 11  
One power LED  
Two alarm LED  
One charge LED

## ECG

Lead Mode:  
3-Lead: I, II, III  
5-Lead: I, II, III, aVR, aVL, aVF, V  
12-Lead: I, II, III, aVR, aVL, aVF,  
V1, V2, V3, V4, V5, V6  
Waveform Speed: 6.25mm/s, 12.5mm/s,  
25mm/s, 50mm/s  
ECG HR Range:  
Adult: 15-300 bpm  
Pediatric / Neonate: 15-350 bpm  
Resolution: 1 bpm  
Accuracy: +1 bpm or +1%  
Filter:  
Diagnostic Mode: 0.05 ~ 150 Hz  
Monitoring Mode: 0.5 ~ 40 Hz  
Surgical Mode: 1-20 Hz  
ST-Segment Detection:  
Measurement Range: -2.0 mV~2.0 mV

## RESP

Method: Trans-thoracic impedance Opera-  
tion Mode: Auto/Manual  
RR Measurement Range:  
Adult: 0-120 rpm  
Neonate/Pediatric: 0-150 rpm  
Resolution 1 rpm  
Apnea Alarm Threshold: 10, 15, 20, 25, 30,  
35, 40 s  
Band Width: 0.2-2.5 Hz (-3 dB)  
Sweep Speed: 6.25, 12.5, 25, 50 mm/s

## SpO2

Measurement & Alarm Range:  
0-100% (SpO2)  
Resolution: 1%;  
Accuracy: +2% (70-100%,  
Adult/ Pediatric) +3% (70-100%,  
Neonate)  
PR Measurement:  
Resolution: 25-300 bpm  
1 bpm  
Refresh Rate: 1 second

## NIBP

Method: Automatic Oscillometric  
Operation Modes: Manual/Automatic/  
Continuous  
Auto Measurement Time Interval  
1, 2, 3, 4, 5, 10, 15, 30, 60, 90,  
120, 240, 480 minutes  
Measurement Unit: mmHg/kPa  
Measurement Types: Systolic, Diastolic,  
Mean, Pressure Range:  
Adults:  
Systolic: 40-270 mmHg  
Diastolic: 10-215 mmHg  
Mean: 20-235 mmHG  
Pediatrics:  
Systolic: 40-200 mmHg  
Diastolic: 10-100 mmHg  
Mean: 20-165 mmHG  
Neonates:  
Systolic: 40-135 mmHg  
Diastolic: 10-100 mmHg  
Mean: 20-110 mmHG  
Resolution: 1 mmHg  
Accuracy:  
Max Mean Error: +5 mmHg  
Max Standard Deviation: 8 mmHg  
PR from NIBP Measurement Range:  
40-240 bpm  
Resolution: 1 bpm  
Accuracy: 3 bpm or 3.5%  
SP10:2002

## IBP (2 Channels, optional)

Measurement Pressure:  
ART, PA, CVP, RAP, LAP, ICP, P1, P2  
Measurement Range: -50-300 mmHg  
Resolution: 1 mmHg  
Accuracy: +2% or +1 mmHg (whichever is  
greater, without probe)  
Sensitivity: 5µV/V/mmHg  
Impedance Range: 300-3000Ω

Philips Respironics CO2 (Optional)  
Type: Sidestream/Mainstream  
Range: 0-150 mmHg  
Accuracy: +2 mmHg 0-40 mmHg,  
+5% 41-70 mmHg  
+8% 71-100 mmHg  
+10% 101-150 mmHg  
AwRR Accuracy: +1 rpm

## CO2 Sidestream

Range: 0-13% (0-100 mmHg)  
Accuracy: +2 mmHg < 5.0% CO2 <6% of  
the reading >5.0% CO2  
Sample Flow Rate: 100-200 ml/min

## TEMPERATURE (2 Channels, 1 probe by default)

Measurement/Alarm Range:  
Resolution: 0-50 oC (32-122 oF)  
Accuracy: 0.1 oC  
Channel: +01 oC (without probe)  
Dual-channel. Provide T1; T2; ΔT

## THERMAL RECORDER (Optional)

Print Speed: 25, 50 mm/s  
Power Supply  
AC Power: 100-240 V AC, 50/60 Hz  
Battery: 14.8 V Rechargeable Li-ion Battery