

FLAGSHIP PATIENT MONITORS **BIONICS**

INTRODUCING ALL NEW BPM-1200™ & BPM-1010™

MOBILE STAND

3 MAIN SCREEN MODES

AUXILLARY INTERFACE

BUILT-IN PRINTER(OPTION)

APPLICATIONS

Operation Theater	Intensive Care Unit	Emergency Room	Recovery Wards	Nursery Homes	VET
✓	✓	✓	✓	✓	✓

Contents may be different and is subject to change without notice

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BPM-1200™



BPM-1010™

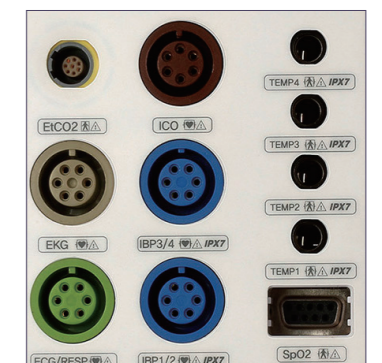
FEATURES

- ✦ Choose from 12.1" or 10.4" screen sizes
- ✦ User friendly menu navigation by touchscreen
- ✦ STANDARD(STD) configuration comes with ECG, Respiration, SpO₂, NIBP, TEMP(1CH) + extra TEMP(1CH) and IBP (1 socket/2CH)
- ✦ Improved BASIC PARAMETERS with the NEW ECG (T. I@ASD1298), NEW SpO₂(ITEC®, CHIPO2PM) and NEW NIBP(OMRON®) on board
- ✦ Supports 30 days of graphical and tabular trends
- ✦ Supports freely editable 12 episodes of alarms
- ✦ 13 kinds of arrhythmia detection
- ✦ Supports HL7 protocol and EMR system
- ✦ Optional: Central Monitoring System (up to 64 beds)
- ✦ Optional: Available Heavy duty battery PACK (5 hours)
- ✦ Optional: PHILIPS Respironics® EtCO₂ support
- ✦ Optional: Invasive Swan-Ganz Catheter compatible Cardio Output (ICO) & Phasein® Multi-gas (EtCO₂ and N₂O / anesthetic agents) support
- ✦ Optional: SUNTECH® NIBP module available for higher performance NIBP measurement

NEW BIONICS CORE ENGINES

NIBP OMRON Inside!	SpO₂ CHIPO2 Inside!	ECG ASD1298 Inside!
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PARAMETER INTERFACE



Bio-signal PARAMETER Supported (★ means accessory included)

STANDARD	SpO ₂	NIBP	ECG	Respiration	Temp1	TempX2	IBP
Accessories	★	★	★	★	★		
OPTIONAL	EtCO ₂	IBP(+)	Tempx2(+)	Multigas	ICO		



Technical Specification on BPM-1200 & BPM-1010

Display

Screen: 12.1" (BPM-1200) / 10"4(BPM-1010) color TFT LCD, touch screen
 Resolution: 800(H) X 600(V) SVGA
 Trace line: 6 waveforms (Std.) / 12 waveform max (Opt.)
 Up to wave trace on/off, (3CH ECG(STD), 12ch EKG(OPTIONAL) SpO2, 4IBP, RESP, EtCO2, Multi Gas)

Parameters

STANDARD: ECG, Respiration, SpO2, NIBP, 2 x TEMP, IBP (Socket only)
 OPTIONAL: Printer, (+) 2 x TEMP, (+) IBP, EtCO2, Multi Gas, ICO
 Common: HRV, OXY-CRG, APG detect analysis, ST level display, mini trend, ECG Recall, Drug Dose, Color change, Temp TD, NIBP Text trend

ECG

Channel: 3 channels (Std.) / 12 channels EKG(Opt.)
 Electrode: 3 or 5 electrode (10 electrodes (Opt.)
 3 lead wire: I, II, III (1 lead at a time)
 4 lead wire: I, II, III, aVR, aVL, aVF (Up to 6leads at a time)
 5 lead wire: I, II, III, aVR, aVL, aVF, V (Up to 7leads at a time)

NIBP(OMRON)

Technique: Oscillometric
 Measurement Range: Adult/Pediatric: 0 ~ 300 mmHg
 Neonatal: 0 ~ 150mmHg
 Accuracy: ± 2 BPM or ± 2%, whichever is greater
 Pulse Rate Range: Adult/Pediatric: 40 ~ 200 BPM
 Neonatal: 40~240 BPM
 Operation Mode: Manual, Auto, Continuous, STAT
 OPTION: replaceable SUNTECH® module for Human & VET

Blood Oxygen Saturation(SpO2)

Display Range
 - SpO2: 0% ~ 100%
 - Pulse rate: 30 ~ 254 bpm
 Limits
 - Preset Range

	Adult	Neonates
Saturation High (SpO2)	100%	95%
Saturation Low (SpO2)	85%	80%
Pulse Rate High	140 bpm	200 bpm
Pulse Rate Low	55 bpm	100 bpm

- Alarm Range

	HIGH	LOW
Saturation	50-100 & OFF(1% steps)	50-99% OFF(1% steps)
Pulse Rate	30-254 bpm & OFF	30-254 bpm & OFF

- Saturation Accuracy (SpO2(%) ± 1SD)

Saturation	± 2% @ 70-100% (70% unspecified)
Pulse Rate	± 2 bpm or ± 2 % (whichever is greater) @ 30-300 bpm

Perfusion Index: 0 - 20%

IBP

Channel: 2(Standard), 4(Option)
 Measurement range: -50 ~ 400 mmHg
 Catheter: Yuta, Biosensors International
 Accuracy: ± 1 %
 Zero balance: ± 150 mmHg

Temperature

Channel: 2(Standard), 4(Option)
 Type: YSI - 400 Series
 Measurement range: 0 ~ 50.0 °C
 Accuracy: ± 0.1°C, for readings 25.0 ~ 50.0°C
 ± 0.2°C, for readings 0 ~ 24.9°C
 Temp TD: Support

Capnography (EtCO₂ - Optional)

Measurement Mode: Respiration Mainstream/Sidestream
 Measurement Range: 0~150mmHg (kPa / %)
 Accuracy: 0-40 mmHg ± 2mmHg
 41-70 mmHg ± 5mmHg
 71-150 mmHg ± 10mmHg
 GAIN: X0.25, X0.5, X1, X2, X4, AUTO
 Sweep Speed: 3.12, 6.25, 12.5, 25, 50mm/sec
 Respiration rate: 0-150 bpm / Accuracy ± 2% or ± 2 bpm

Cardiac Output (Optional)

Method: Thermodilution
 Parameters: CI, SV, SI, LVSWI, RVSWI, VSWI, SVR, SVRI, PVR, PVRI
 Catheter: Swan-Ganz standard Thermodilution pulmonary Artery Catheter (131HF7, 744HF75) by Edward Lifesciences

Multi Gas (Optional)

Parameters: CO2, N2O
 Anesthetic Agent: Halothane, Enflurane, Isoflurane, Desflurane, Sevoflurane

Printer (Optional)

Channel: 3
 Paper size: 58 mm

ECG Recall

Storage: Recall 20 seconds event data with graphic, and 2 seconds data can be zoomed to observe and analyze and Printed out.
 Save up to data (1ch): 1200

Event Recall

Storage: Recall 20 seconds event data with graphic, and 2 seconds data can be zoomed to observe and analyze and Printed out. *Save up to data: 120

Data Recall

Storage: full graphic and tabular trends of all parameters.
 Save up to data: 720 hour

Interface

Port: RS-232, VGA, LAN and Wireless LAN (Opt.), ECG Output: Signal (1mV) / Defibrillator sync out (5V, 100ms) (opt.), IBP Output: Signal (opt.), SD Memory Card Port, Nurse Call Port

Languages

ENGLISH, FRENCH, SPANISH, GERMAN, ITALIAN, RUSSIAN, TURKISH, CZECH, RUMANIAN, PORTUGUESE
 (Can be applied to all languages.)

Trend

Memory Storage: 30 days (Standard) All parameters
 43,400 sets (1 set per minute) of virtual signs list data can be stored, reviewed, and Printed out.
 Tabular and Graphic Data Interval: 1, 5, 15, 30 min --- and 1 Hours

Battery

Internal Battery: Li-ion Battery (DC: 10.8V/2.6A_Std.)
 Heavy Duty Pack - 10.8V/4.4A (Optional)
 Operating time: Min. up to 1hours (Std.) / Max. up to 5hours (Heavy Duty Pack)

Ordering BPM-1200 & BPM-1010

ORDERINING (Predefined arrangements)

STD/OPT	Cat No	Trademarks, product description
STANDARD (STD)	BPM1010	BIONICS® BPM-1010 10" Patient Monitor (STANDARD PACKAGE)
OPTIONAL	BPM1010D	BPM1010 with Heavy Duty BATTERY
	BPM1011	BIONICS® BPM-1010 10" Patient Monitor STANDARD PACKAGE with Printer
	BPM1011D	BPM1011 with Heavy Duty BATTERY
	BPM1012	BIONICS® BPM-1010 10" Patient Monitor (CAPNO PACKAGE)
	BPM1012D	BPM1012 with Heavy Duty BATTERY
	BPM1013	BIONICS® BPM-1010 10" Patient Monitor CAPNO PACKAGE with Printer
	BPM1013D	BPM1010 with Heavy Duty BATTERY
	BPM1014	BIONICS® BPM-1010 10" Patient Monitor (MULTIGAS PACKAGE)
	BPM1014D	BPM1014 with Heavy Duty BATTERY
	BPM1015	BIONICS® BPM-1010 10" Patient Monitor MULTIGAS PACKAGE with Printer
	BPM1015D	BPM1015 with Heavy Duty BATTERY
	BPM1016	BIONICS® BPM-1010 10" Patient Monitor (PREMIUM PACKAGE) with Printer
BPM1015D	BPM1016 with Heavy Duty BATTERY	
STANDARD (STD)	BPM1200	BIONICS® BPM-1200 12" Patient Monitor (STANDARD PACKAGE)
OPTIONAL	BPM1200D	Heavy Duty BATTERY PACK
	BPM1201	BIONICS® BPM-1200 12" Patient Monitor STANDARD PACKAGE with Printer
	BPM1201D	Heavy Duty BATTERY PACK
	BPM1202	BIONICS® BPM-1200 12" Patient Monitor (CAPNO PACKAGE)
	BPM1202D	Heavy Duty BATTERY PACK
	BPM1203	BIONICS® BPM-1200 12" Patient Monitor CAPNO PACKAGE with Printer
	BPM1203D	Heavy Duty BATTERY PACK
	BPM1204	BIONICS® BPM-1200 12" Patient Monitor (MULTIGAS PACKAGE)
	BPM1204D	Heavy Duty BATTERY PACK
	BPM1205	BIONICS® BPM-1200 12" Patient Monitor MULTIGAS PACKAGE with Printer
	BPM1205D	Heavy Duty BATTERY PACK
	BPM1206	BIONICS® BPM-1200 12" Patient Monitor (PREMIUM PACKAGE) with Printer
BPM1206D	Heavy Duty BATTERY PACK	

[DEFINITIONS]

STANDARD PACKAGE (STDP) Monitor that is factory standard and that is predefined as STANDARD configuration

OPTIONAL Monitor that is added with extra options predefined by factory / printer is optional

CAPNO PACKAGE Monitors that supports Capnography, End Tidal CO2 (EtCO2) measurements on top of STDP

MULTIGAS PACKAGE (MTP) Monitor that supports Multi-gas analysis, in which capnography, End Tidal CO2 (EtCO2) measurements is included but also detects other type of gases such as N2O, HAL, ISO, etc. on top of STDP

PREMIUM PACKAGE Monitor that supports Invasive Cardiac Output on top of MTP with built-in printer

STANDARD(STDP) Accessories & in-box items including

Monitor (1)
 ECG cable, 5 leads Type (1)
 ECG Electrode (5)
 NIBP cuff for adult (1)
 NIBP cuff for child (1)
 NIBP connection hose (1)
 SPO2 probe for adult (1)
 Temp probe for skin (1)
 User Manual (1)
 Power Cord (1) SDHC CARD 4GB (1)

OPTIONAL (PREDEFINED) Accessories & in-box items including

For CAPNO PACKAGE
 ALL STDP + Sidestream EtCO2 module kit: RESPIRONICS@LOFLO™ OR
 ALL STDP + Mainstream EtCO2 kit: RESPIRONICS@CapnoStat 5™
 For MULTIGAS PACKAGE
 ALL STDP + Sidestream multigas kit: Phasein@ISA™ AX+ OR
 ALL STDP + Mainstream multigas kit: Phasein@IRMA™ AX+
 For PREMIUM PACKAGE
 ALL MTP + Swan-Ganz Catheter compatible extension cable by Edward's Life Science
 + IBP extension cable (2CH) for transducer connection
 + Biosensors in 'tl@ Biotrans™ BP transducer, single monitoring kit, Adults

EXTRA APPLICABLE OPTIONS

★ CENTRAL Monitoring management system FOR up to 64 BEDS
 ★ SUNTECH® Advantage 2.0 NIBP module (REPLACING STANDARD NIBP MODULE).
 ★ EKG 10 lead (EKG) SUPPORT CONVERSION (STDP + ECG cable, 10 lead)
 ★ HEAVY DUTY BATTERY PACKAGE IS AVAILABE FOR ALL BPM-1200 AND BPM-1010 MONITOR ARRANGEMENTS
 ★ FOR OTHER INFORMATION ON PURCHASABLE ACCESSORIES, PLEASE ASK REMED SALES REPRESENTATIVE.