

Experience the Brilliance



CE 0843

MODULAR MULTI-PARA PATIENT MONITOR

BPL **ExcelSign E12**



Happier Living Everyday



High Resolution Display

12.1 inch High Resolution Color LCD Display with 1280x1024 pixels



Modular Design

Users have the option of monitoring up to 8 different parameters



Gold Plated Module Contacts

Gold Plated Module Contact provides seamless quick and efficient infrared transmission of data from modules to main console



Touch Screen

Touch Screen and Rotary knob provides ease of usage



9 Parameter Monitoring

Users have great flexibility in monitoring different parameters with the modular structure of E12 and can monitor up to a maximum of 9 different parameters



High Performance ECG Monitoring

Excel Sign E12 is available with the option of 3 Lead/ 7 Lead and 12 Lead ECG Monitoring with arrhythmia detection and ST segment analysis providing users with efficient analysis of patient ECG



Smart Alarms

Audio and Visual Alarms with 3 different levels of Priority: High, Medium and Low can help clinicians easily understand the criticality of patient condition



Calculation Interface

Drug Dose Calculation, Hemodynamic, Ventilation, Oxygenation and Kidney Function Calculation provides users with more information regarding the status of the patient



Efficient Memory Storage

150 Hours of Trend Data, 2000 groups of NiBp Measurement, 200 Alarm Review options provide users options for detailed review of patient status



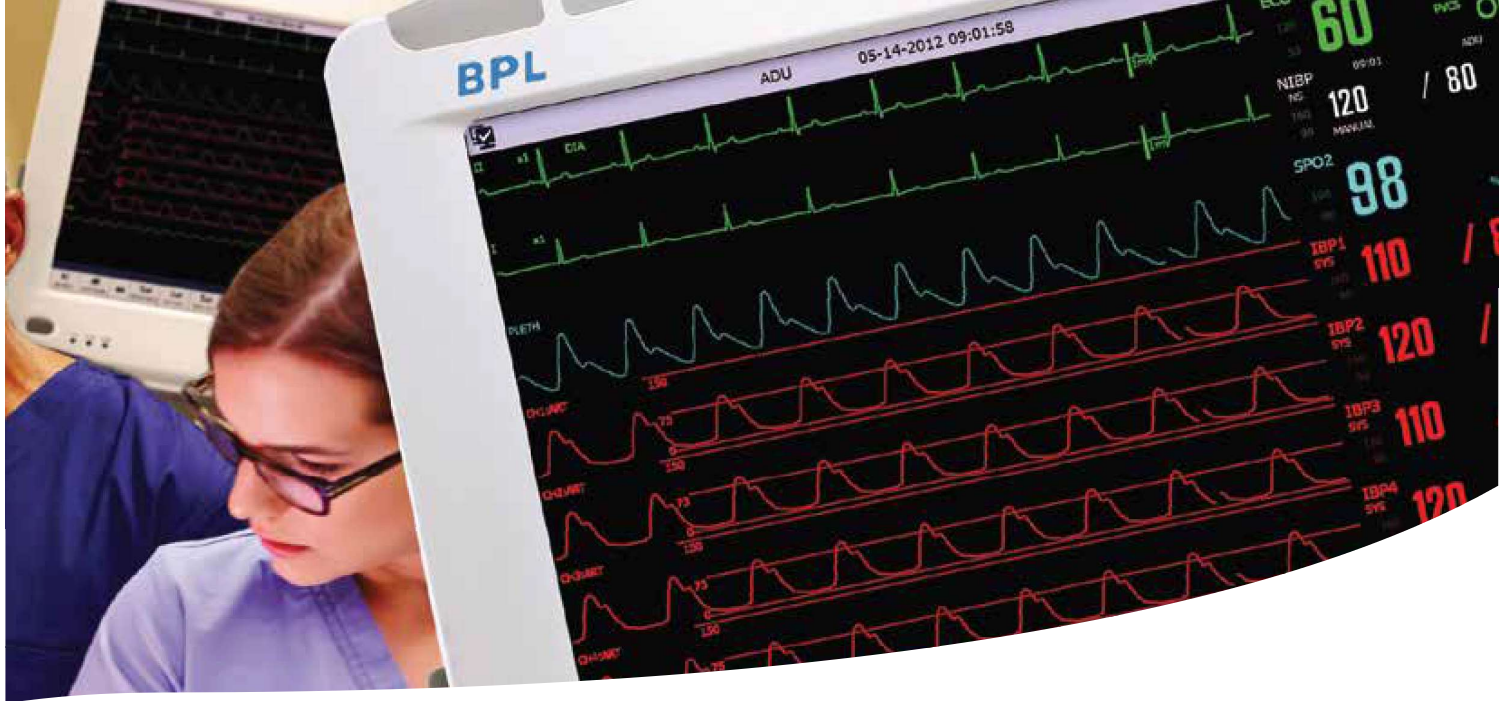
Enhanced Connectivity

SD card, USB Drive Connectivity, DVI Interface provide users with options for seamless transfer of data as well connectivity options to external slave displays



High Performance Battery

With low power consumption, and High performance Li-ion Battery, the device can work continuously for 120 mins



Integrated Solutions

Modular technology allows to select from advanced parameters and plug in with random combination, automatic software identification. This supports in providing the best medical care.



Standard Module

Ensures increased clinical confidence in measuring the vital parameters - ECG (optional : 12 Channel Electrocardiograph Technology), RESP, TEMP(2 - channel), SpO2 (available with Standard & Masimo Set Options), NiBP, 2-IBP.

12 Channel Electrocardiograph Technology

A full 12-channel ECG waveform can be viewed on the monitor screen. The Common Mode Rejection Ratio (CMRR) feature enables extreme interference free capability in ECG even at 105db. It can also analyze heart rate and retrieve alarms

Masimo Technology

"*MasimoSET (Signal Extraction Technology) increases the ability to detect life-threatening events and reduces false alarms during challenging conditions.

* An array of sensors to select that lead to improved accuracy, a reduction in the overall number of false readings, and ultimately, reduced cost of care."



Optional Transport Monitor**



Transport monitor equipped with independent operating system is available as an optional plug-in with BPL ExcelSign E12. When used together with BPL ExcelSign E12, this transport monitor enables mirror display on the main monitor screen as well. Patient's data can be swapped between the transport monitor and the main monitor. Data transfer and sharing feature is available between the transport monitor and the main monitor. The built-in 2600mAh lithium cell can support hot swap with power on, ensuring that the patient's information is monitored without any discontinuity

Parameters in Transport Monitor

It enables the efficient measurement of vital parameters - ECG (optional: 12 Channel Electrocardiograph Technology), RESP, TEMP(2 - channel), SpO2 (Optional: Masimo technology), NiBP, ET/CO2

** Optional enhancement available at additional cost

Module Options*

IBP

ETCO₂

AGM

CO

ICG

BIS



IBP (Invasive Blood Pressure) Module

This Module can monitor arterial pressure, pulmonary Arterial pressure, central venous pressure & intracranial pressure using US Abbott / Medex IBP Technology



ETCO₂ Module

PHASEIN IRMA CO₂ (Mainstream) Module

Extremely compact design (25g); maintenance free - no calibration needed; Neonate, Paediatric & Adult applications, easy to integrate; 'plug-in and measure'

PHASEIN ISA (Sidestream) Module

Unique water handing-nomoline; low sample flow ≤50ml/min for all types of patients; 'instant on' warm-up time of 10/20 seconds until full spec, low power consumption and light weight; 'plug-in and measure'; maintenance free - no routine calibration required



AG (Anaesthetic Gas) Module

This advanced Anaesthetic Gas module can monitor eight different gases (O₂, CO₂, N₂O, ENF, ISO, DES, SEV, HAL). It can automatically identify the type of anaesthetic gas in use, MAC value feature (Minimum Alveolar Concentration), Short preheat time and long service life are the other features of this module.



CO (Invasive Cardiac Output) Module

BPL ExcelSign E12 comprises invasive cardiac output technique, but CO measurements are conducted with conventional thermo dilution invasive cardiac output and other hemodynamic parameters. The monitor can measure 'blood temperature', 'calculating cardiac output' and 'calculating hemodynamics'. The cardiac output is measured with a floating catheter led from vein to pulmonary artery followed by injecting a certain amount at 0° - 25° C injecta so that the blood temperature will be varied after the injecta and also blood output from the heart are mixed together, thereby achieving cardiac output by measuring blood temperature variation before and after injected in accordance with the principle of heat balance

*Optional enhancement available at additional cost



ICG (Non-invasive Blood Flow Dynamics) Module

An impedance ECG is applied to realize non-invasive blood flow dynamics monitoring, which is characterized by its non-invasive, continuous and highly accurate and strong interference-resistant capability as well as lower cost and with ease of operation. A disposable special electrode is used to transmit electric signal through chest. The impedance of the electric signal can be measured and displayed in an ICG waveform. As blood volume and blood flow rate in the aorta vary along with each subsequent heartbeat, DISQ® (Digital Impedance Signal Quantification) technology is used to cope with variation of impedance signal. The impedance variation is used in non-invasive ZMARC™ algorithm (the aorta compliance regulation) so as to obtain hemodynamics.



BIS (Depth of Anaesthesia) Module

The BIS module has been designed to be used in the monitoring of the level of consciousness of a person during the application of general anaesthesia or in intensive care. This is accomplished by registering the electroencephalographic signal (EEG) by means of surface electrodes, which is then analyzed by a digital process. As a result of the applied calculation, an index 'BIS' is obtained, which serves as guidance to experts who use it to determine the level of consciousness of the patient during surgery

Ensures dependable bed-side patient care allowing precise evaluation of parameters



Module MAP Diagram

Module MAP diagram displays operating status of modules



Efficient Data Storage

New data storage mode without compression, waveform distortion and Power off storage function enables saving up to 150 hours of trend diagram and chart, 2000 groups NiBP list and 120 minutes waveform review



Enhanced Touch Operation

Complete touch operation provides a whole new touch experience to the user



Respiration Oxygenation Interface

It consists of HR, SpO₂ and PR trend or compressed respiration wave. 4 trend periods such as 1 minute, 2 minutes and 4 minutes are selectable. Compressed respiration wave or dynamic trend diagram of PR also can be selected



Enhanced Lead Acquisition

7-lead / 12-lead ECG acquisition and display with amplification feature. Rhythm lead calculations and synchronous display of waveforms enabled



List Interface

Records NiBP, HR, PR and pulse oxygen saturation and respiratory rate for clinical comparison and observation



- The three-colour 360 degree visual alarm lamp is hard to miss and enables clear viewing of physiological alarm and technical alarm



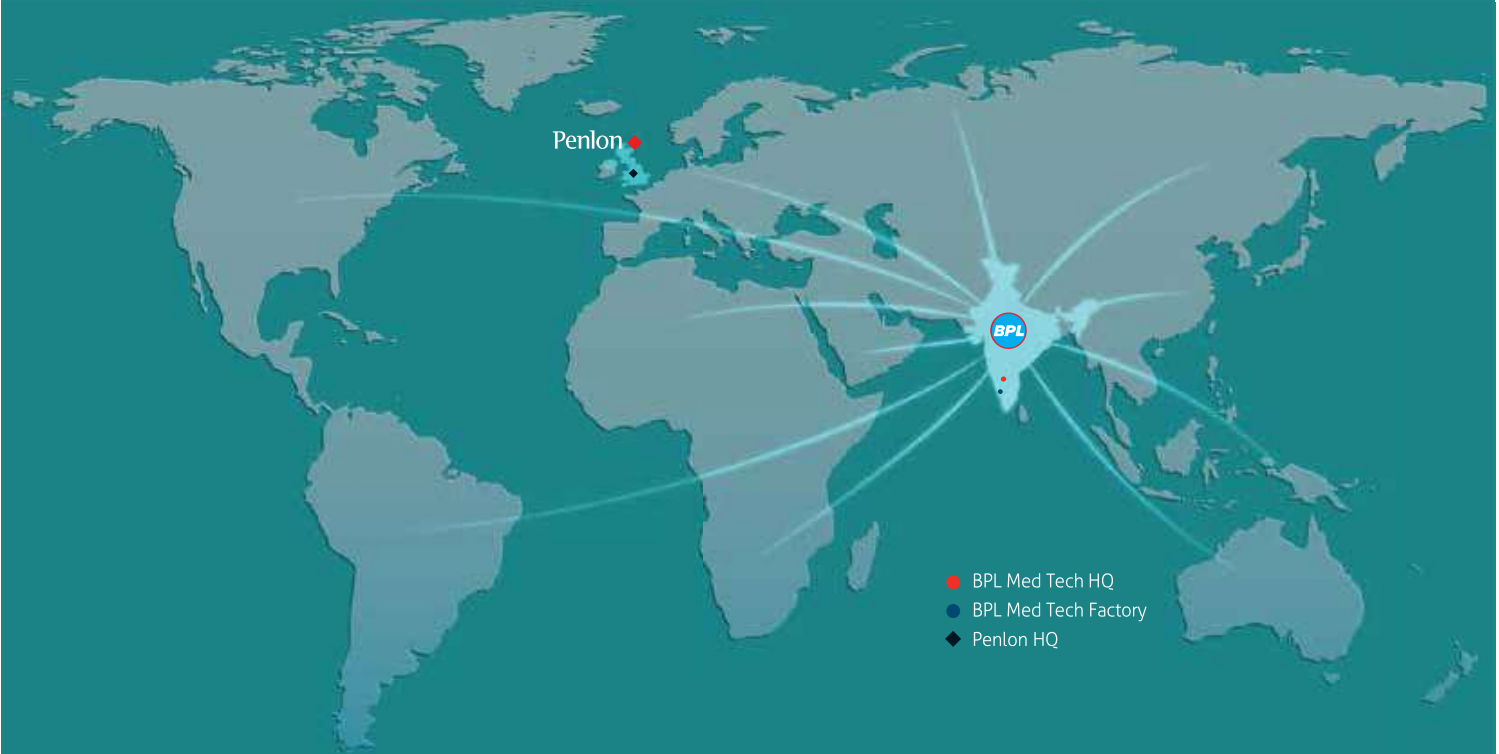
- Built-in handle for space saving and ease to carry around



- SD socket expands memory connect capacity
- Multiple USB interfaces can support external keyboard, mouse and support data transfer as well as software upgrade
- Various ports for external devices such as auxiliary plug-in box, monitor, CIS and cable network interface and so on
- External ports management house conceals interfaces, keeps dust away, prevents foreign matter from dropping in and uniformly manages data lines



A Global Medical Technology Company



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CERTIFIED ISO 13485:2003, ISO 9001:2008 COMPANY

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