



NIBP Simulator & Analyzer - BPA700

- ◆ Compliant with IEC 80601-2-30 standard, ensuring consistency and repeatability of dynamic blood pressure measurements
- ◆ Record and playback blood pressure raw data
- ◆ Compatible with all types of blood pressure monitors, including wrist, arm, and tunnel
- ◆ Wide display range: includes dynamic blood pressure range (10-300 mmHg) and static pressure range (20-400 mmHg)
- ◆ Dynamic pressure repeatability within 2mmHg at maximal pulse volume
- ◆ Provide Software Development Kit (SDK) to develop customized or automatic testing software
- ◆ Auto-sequence assists users in easily creating semi-automatic test procedures for more efficient and automated testing
- ◆ Optional Standard Assistant Software simplifies IEC 80601-2-30 standard testing into sequence, parameter, pass criteria and Test Report helping users keep records as HTML file
- ◆ Adjustable blood pressure envelope to simulate different blood pressure

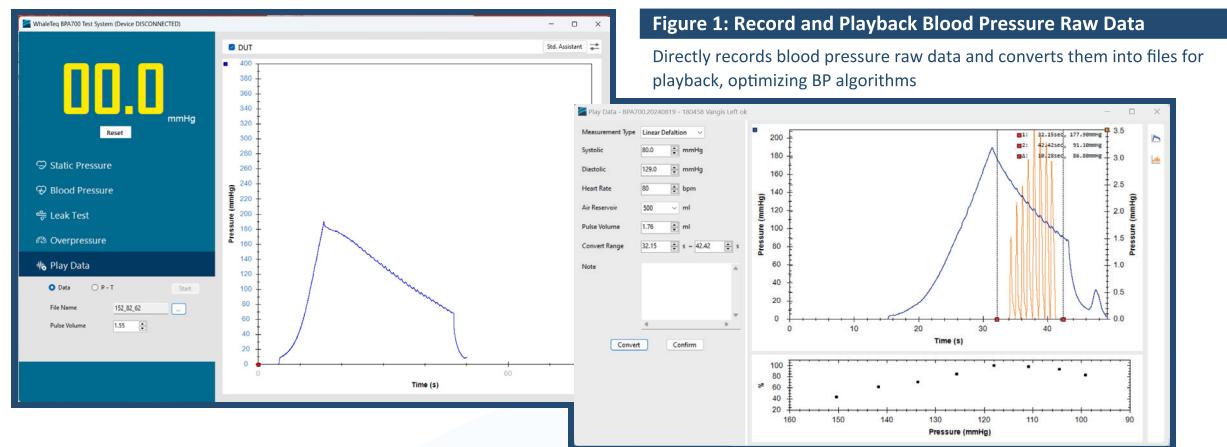


Figure 2: Pressure Dynamic Graph

Display pressure-time graph and with four adjustable cursors to view detailed pressure and time

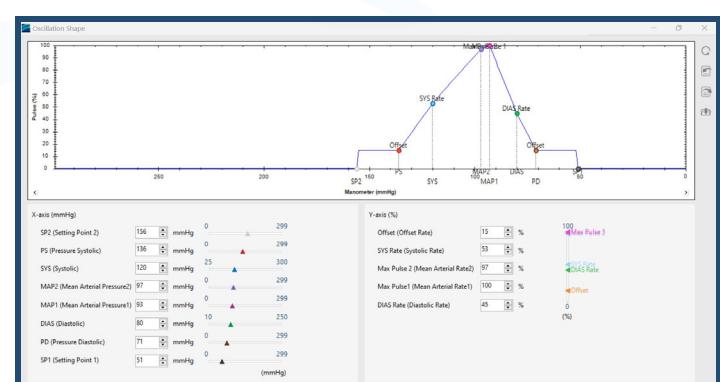
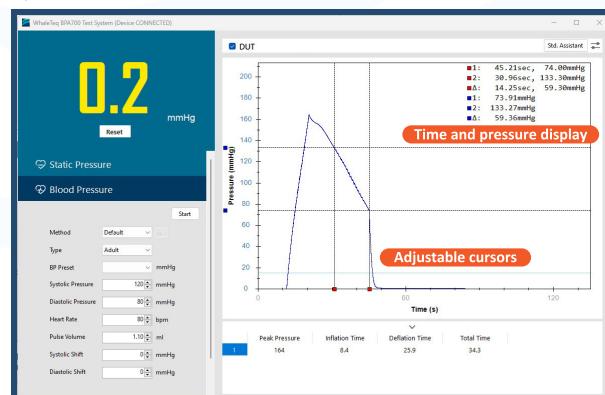


Figure 3: Adjustable Envelope

Adjustable parameters of blood pressure, and support measuring during cuff inflation and deflation

Figure 4: Standard Assistant Software

Compliance with NIBP blood pressure monitor regulations for IEC 80601-2-30:2018/YY9706.230

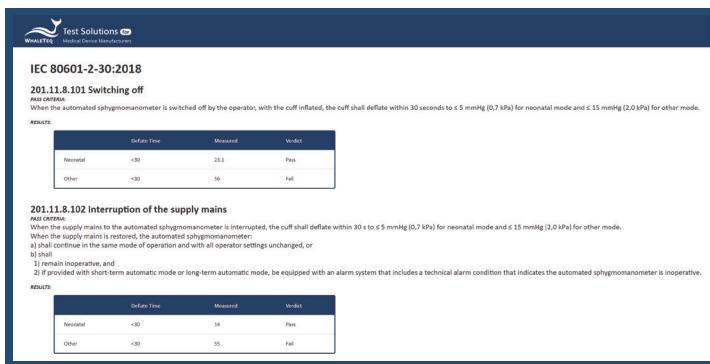
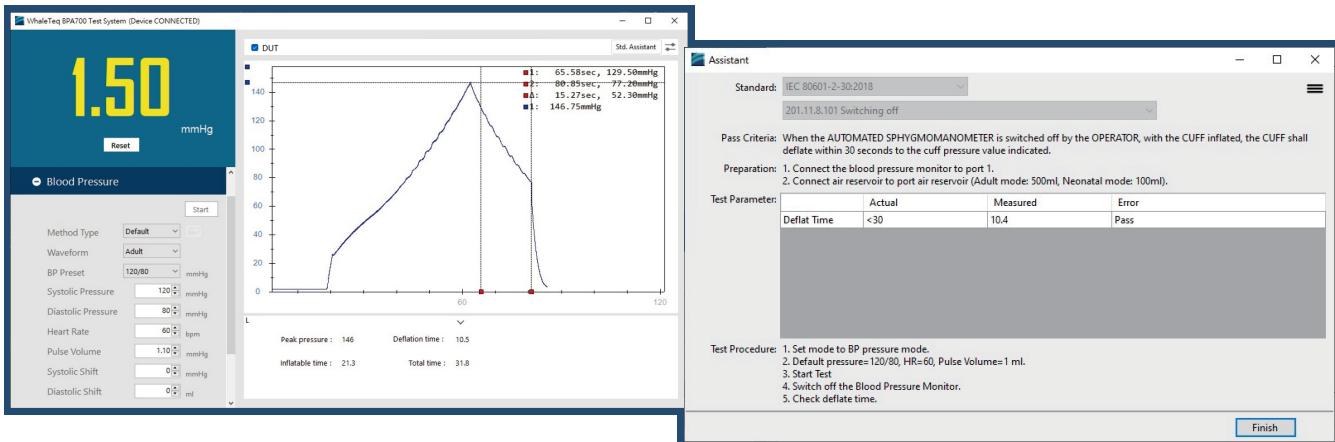


Figure 5: Test Report

Generate test report automatically to keep records as HTML file

Specifications

Parameters	Specifications
Pressure Unit	mmHg, kPa
Manometer	Range: 0 to 400mmHg Resolution: 0.1mmHg Accuracy: \pm (0.3% of reading + 0.5mmHg)
Pressure Source	Target Pressure: 20 to 400mmHg Settle time: 5Seconds Resolution: 1mmHg Accuracy: \pm 0.5mmHg
Pulse Rate	Range: 30 to 300bpm Accuracy: \pm 1bpm Pulse Amplitude: 2mmHg max (500ml air réservoir) Pulse Volume: 0 to 2ml
Waveform	Support: Oscillometric Resolution (sample rate): 5ms (200Hz)
Leak Test	Leak Test Time: 0 to 999seconds Target Pressure: 20 to 400mmHg Range: 0 to 300mmHg/min
Overpressure Test	Release Time: 0 to 999seconds Range: Automatic inflation Instantaneous: 0 to 400mmHg
BP Envelope Shift	Systolic Range: \pm 20mmHg Diastolic Range: \pm 20mmHg
BP Dynamic Range	Diastolic Range: 10 to 250mmHg Systolic Range: 25 to 300mmHg
Dynamic NIBP Simulation Repeatability	\pm 2mmHg 0.05mmHg (Standard deviation)
Self-Leakage	<1mmHg/min (500ml air réservoir volume)
Environment	Operating Temperature: 10°C to 40°C Storage Temperature: 0°C to 50°C Humidity: 0 - 90% RH (Non-condensing)
Shape	Dimensions: 326.4 x 315 x 88mm Display: Graphic LCD Resolution 320 x 240 pixels Weight: 4.5kg
Communication	USB
Power	AC 100-240V, 50/60Hz

IEC80601-2-30 Test Clauses

Test Clause
201.11.8 Interruption of the power supply/supply mains to ME Equipment
201.12.1.101 Measuring and display ranges
201.12.1.102 Limits of the error of the manometer from environmental
201.12.1.103 Internal electrical power source
201.12.1.104 Maximum pressure in normal condition
201.12.1.105 Maximum pressure in single fault condition
201.12.1.106 Manometer test mode
201.12.1.107 Reproducibility of the blood pressure determination
201.101.2 Pressurization
201.104 Maximum inflating time
201.105.1 Automatic cycling modes for LONG-TERM
201.105.2 Automatic cycling modes for SHORT-TERM



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