



NIBP Simulator & Analyzer - BPA700

- Compliant with IEC 80601-2-30 / YY9706.230, 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 (10-300mmHg) and static pressure range (20-400mmHg)
- 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 1: Record and Playback Blood Pressure Raw Data

Directly records blood pressure raw data and converts them into files for playback, optimizing BP algorithms

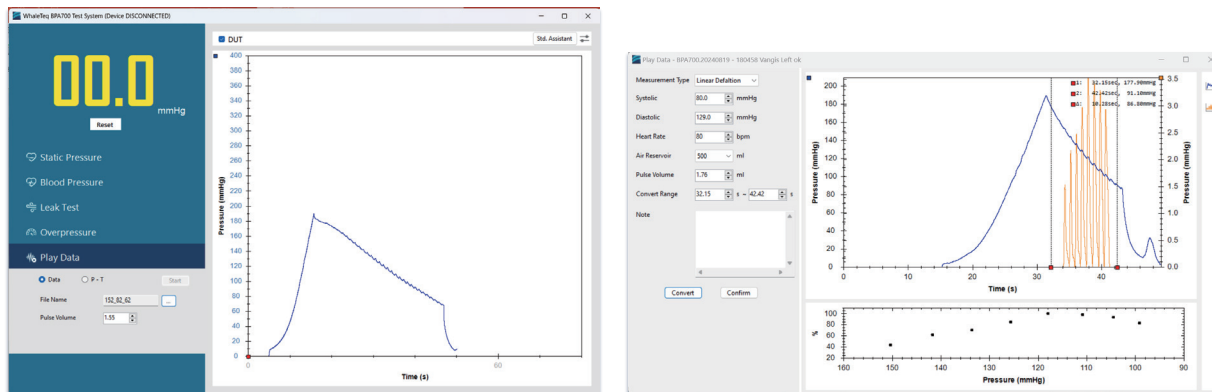


Figure 2: Pressure Dynamic Graph

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

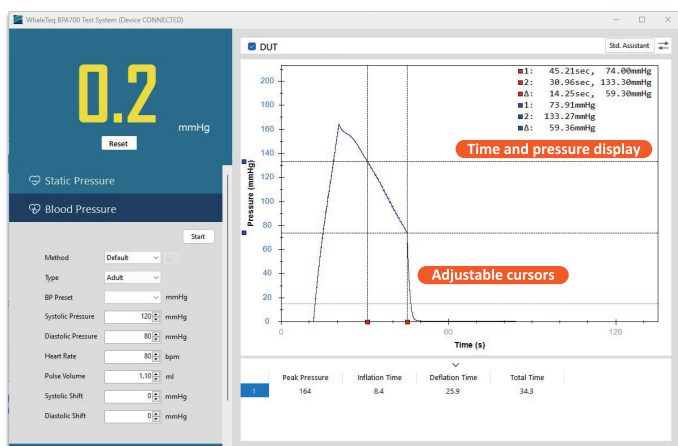


Figure 3: Adjustable Envelope

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

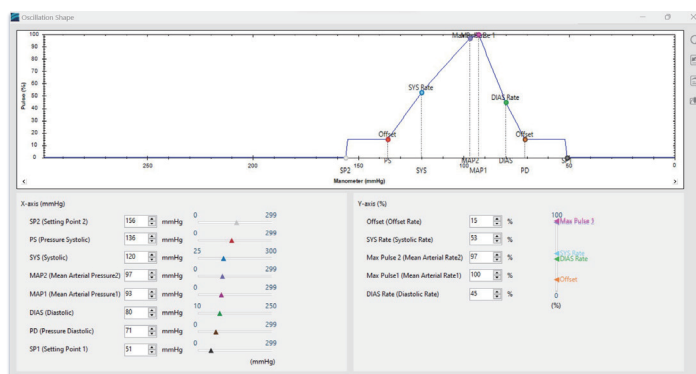


Figure 4: Standard Assistant Software

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

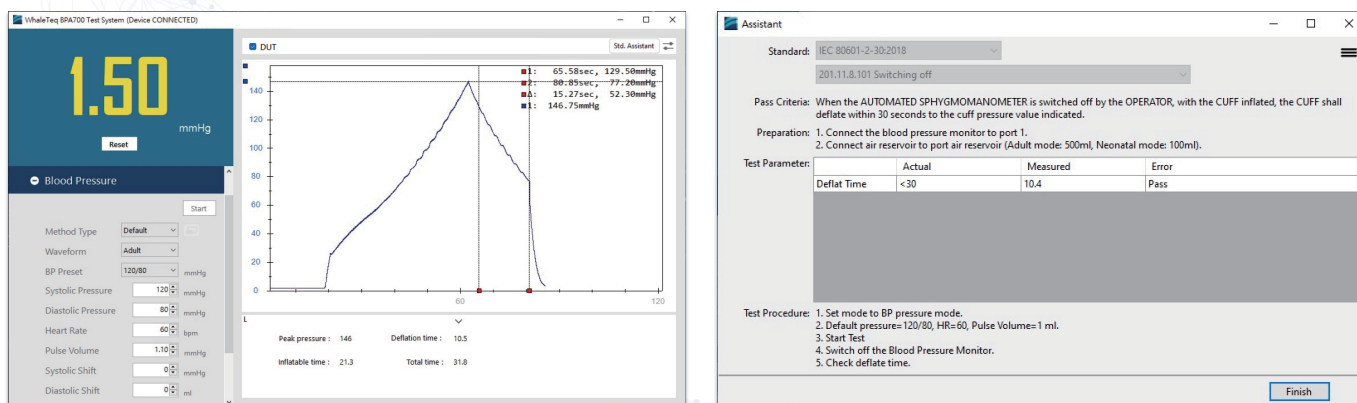
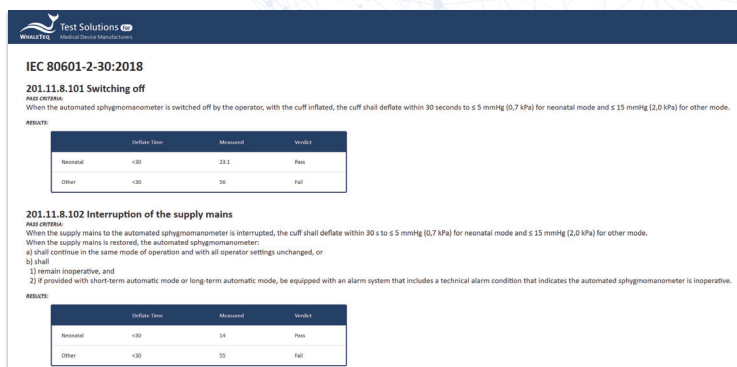


Figure 5: Test Report

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

IEC 80601-2-30 / YY9706.230 Test Clauses

Test Clause	
201.11.8.101 Switching off	●
201.11.8.102 Interruption of the supply mains	●
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	●
201.105.3 Self-measurement automatic mode	●

Test System

Model No.	Description	Quantity
100-BP00001	Model No.: BPA700 Model Name: NIBP Simulator and Analyzer Package contents: • USB Transfer Cable: Type-A to Type-B (Male to Male), 1.8m x 1 • Tube (14cm) x 2 • T-connector x 1	1

Optional Software Add-on Pack

Part No.	Description
HA0-BP18001	Assistant Software for IEC 80601-2-30
HA0-BP18002	Assistant Software for YY9706.230
HE0-BP00001	Envelope Adjustment Software
HE0-BP00002	Play data Software

Optional Accessories

Part No.	Description	Quantity
S21-0500201	500ml Air Reservoir	1
S21-0100301	100ml Air Reservoir	1
SHA-BP18012	Tube (14cm)	1
E18-UN0Q060	T-connector	1

Optional Calibration Service and Warranty Extension

Part No.	Description
YY0007	Model No.: C3 Provides (3) years of calibration service coverage. WhaleTeq equipment can be calibrated to original performance on the basis of (1) year interval.
YY0008	Model No.: R3 Extends the limited warranty from (1) year to (3) years.



BPA700
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more information

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