



## Quick User Guide – BPLab Standard

### Downloading Data & Advanced Reporting

Ensure your monitor is connected to the PC. See below.

**USB Connection Cable**



**PC Connection Port**



Open BP Lab Software using the below icon on your desktop.

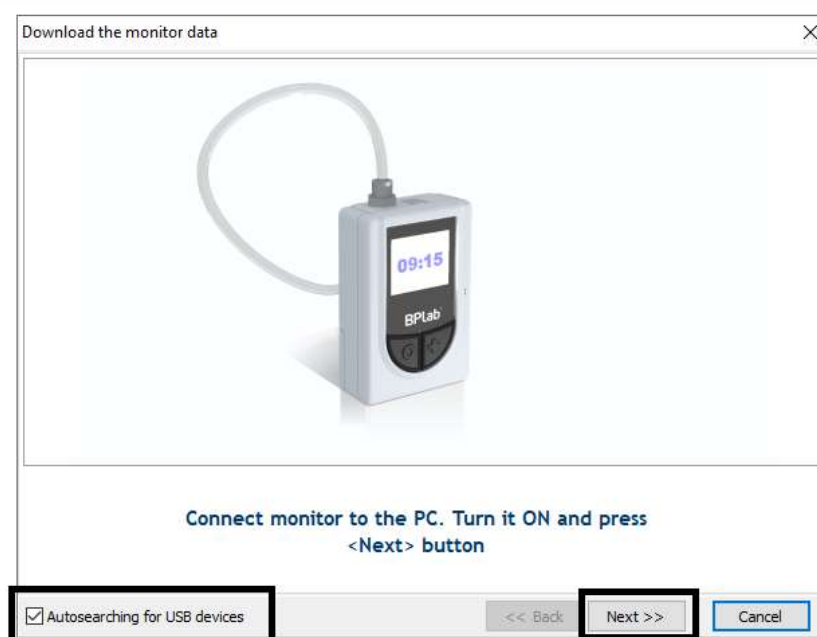




To retrieve measurement data from the monitor click the **download** button



You will see the below screen. Tick the **auto searching for USB devices** box and then click next.





Once the monitor and data are found by the PC it will display the data summary box below. Click **next** to download data.

A screenshot of a software window titled "Download the monitor data". The window displays the following information:  
Monitor: BPLab Standard #A19106836 Rev.BP2005-01.04.02.3658  
Monitor contains data:  
Test ID: 07076836  
Patient name: TEST  
Age (years): 30  
Date of initialization: 7/07/2021  
Time of initialization: 11:08:00 AM  
Number of readings: 0  
Established mode: BP measurement  
Sound: Yes  
Show pressure values: No  
Child mode: No  
Orthostatism trigger: Yes  
Addl auscultatory method: (faded)  
Begin monitoring in verification mode: Yes  
Disable advanced features: No  
At the bottom, there are three buttons: "<< Back", "Next >>" (highlighted with a red box), and "Cancel". The BPLab logo is visible on the left side of the window.

When the data has been saved you will see the below box. Ensure **start data preparation wizard** is unticked and then click done.

A screenshot of the same software window, now showing the data has been saved. The text "Data has been saved in file '07076836.bpw'" is displayed at the top. The test details and configuration remain the same. At the bottom, the "Start Data Preparation Wizard" checkbox is now visible and is unticked (highlighted with a red box). The "Next >>" button has been replaced by a "Done" button (also highlighted with a red box). The "Cancel" button remains. The BPLab logo is still on the left.



You will then be taken to the results screen. Here you can firstly update **patient data**. You can then view **ABPM data**, **analysis & regressions** by using the tabs at the top.

BPLabWin  
File Monitor Analysis Print View Settings Help

Patient data ABPM Data Analysis Regressions

Monitor BPLab MnSDP-2 #01010016 Rev.BP005  
Test ID B3L01  
Test start 21/03/2001 (12:26)  
Attempts to measure 61  
Expected readings 61  
Successful reading 51  
% successful readings 84.0%  
Analyzed 51

Patient name SAMPL\_Rigid

\* Sex Undefined

\* Age (years) 69

\* Height (cm) N/A

\* Weight (kg) N/A

Length of aorta (cm) 0

\* Arm (L/R) Undefined

Arm circumference N/A

\* Cuff size Undefined

Sleep quality Undefined

\* - fields that influence the data processing

Patient card No.

Address

Phone

Department

Room

Therapy

Reasons for test liôäääääääää nööi-ñññ iöiöëëëy ÄÄ

Notes Example of a patient with rigid arteries

Institution

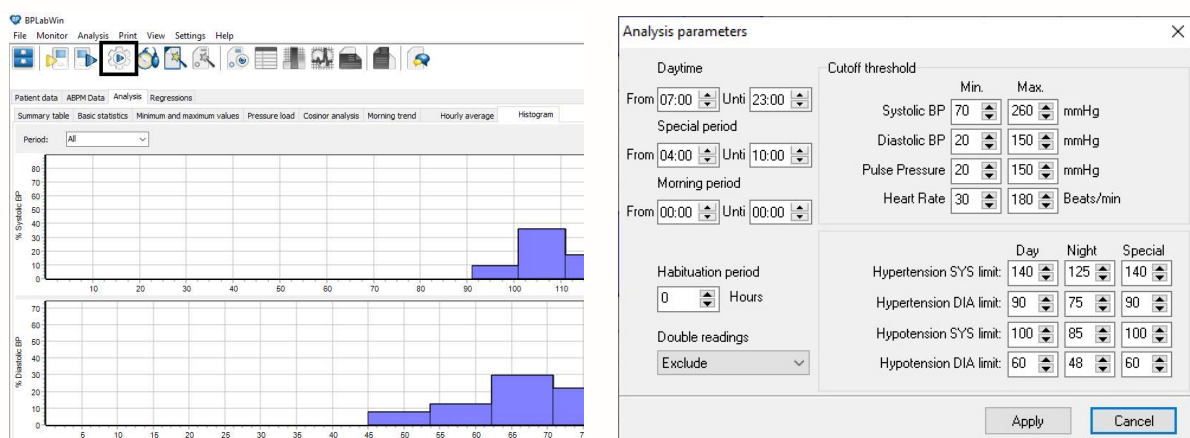
Doctor

Physician

## Patient Diary

Please review the patient diary to ensure test parameters are correct so the software results are correct. Also confirm any erroneous readings associated with particular symptoms, moods, activities and positions.

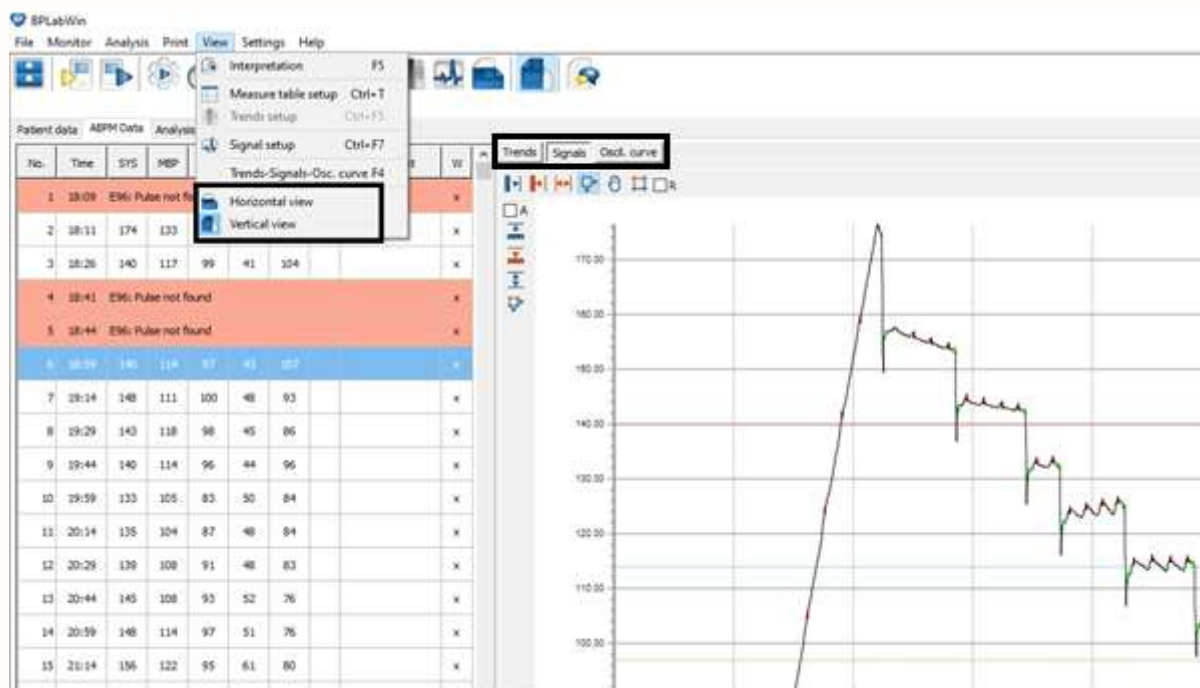
Test parameters can be reviewed by clicking the **edit analysis parameters** icon on the top toolbar. Here you can edit the **daytime, morning period & special times** to fall in line with the patient diary.





Once **patient data** and **patient diary** have been reviewed you can look at the **ABPM Data** tab.

Here you can see several different representations of the measurements listed below. To change the layout of results you can click on the **view** menu and select **horizontal view** or **vertical view**.



### The Measurement Table

Detailing accepted and excluded measurements (in red) taken during the entire monitoring session.

Patient data ABPM Data Analysis Regressions									
No.	Time	SYS	MBP	DIA	PP	HR	Q	Comment	W
1	18:09	ES96: Pulse not found							x
2	18:11	174	133	120	54	95			x
3	18:26	140	117	99	41	104			x
4	18:41	ES96: Pulse not found							x
5	18:44	ES96: Pulse not found							x
6	18:59	140	114	97	45	107			x
7	19:14	148	111	100	48	93			x
8	19:29	143	118	98	45	86			x
9	19:44	140	114	96	44	96			x
10	19:59	133	105	83	50	84			x
11	20:14	135	104	87	48	84			x
12	20:29	139	108	91	48	83			x
13	20:44	145	108	93	52	76			x
14	20:59	148	114	97	51	76			x
15	21:14	156	122	95	61	80			x
16	21:29	151	120	94	57	77			x
17	21:44	154	118	98	56	77			x
18	21:59	ES94: DIA not found							x
19	22:02	ES96: Pulse not found							x
20	22:17	ES96: Pulse not found							x
21	22:20	158	122	95	63	79			x
22	22:35	ES87: 2 min. exceeded							x
23	22:38	ES96: Pulse not found							x
24	22:53	ES96: Pulse not found							x
25	22:56	147	118	93	54	80			x





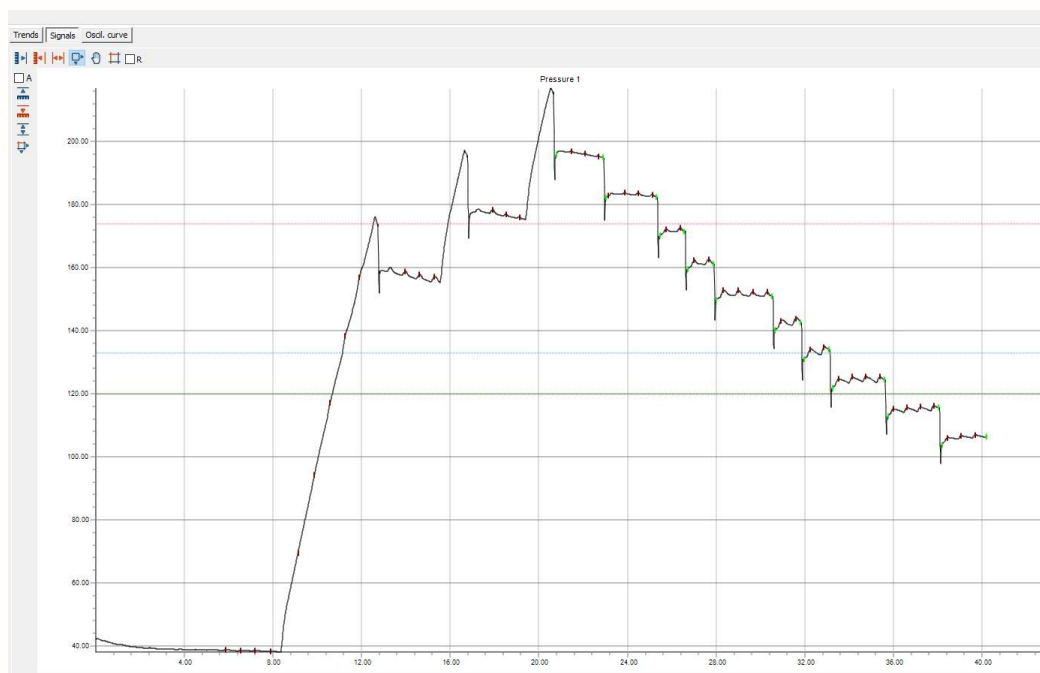
## The Test Data

Here you can look at the measurement trends across the entire monitoring session, spot any possible artefact, review the captured signal, oscillogram curve and exclude test data if required.

### Trends

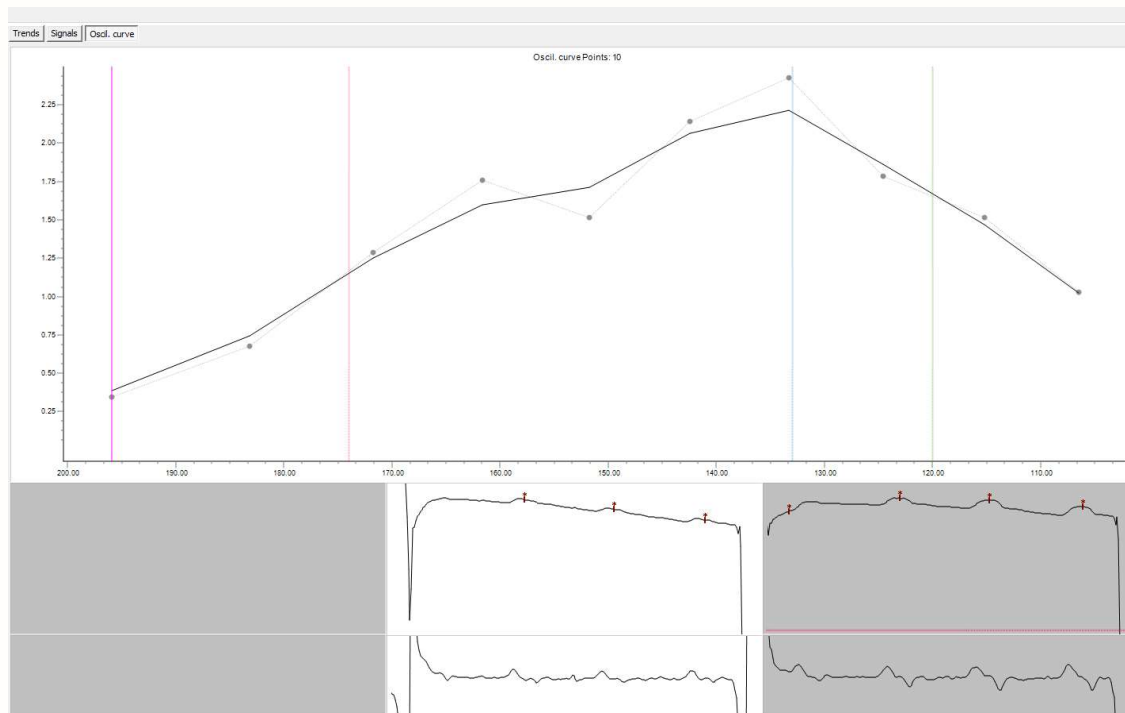


### Captured Signal





## Oscillogram Curve



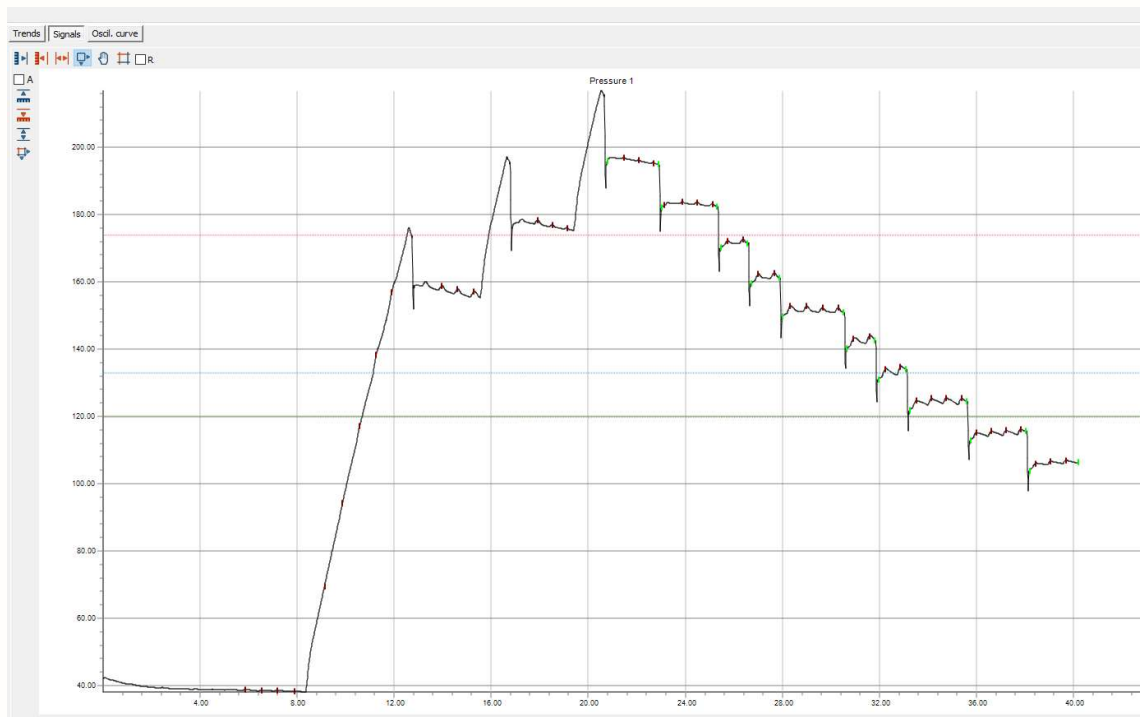
## Measurement Review

To select, review and exclude measurements click on the reading in the trend graph and it will highlight the data with a pink stripe and select it in the **measurement table**





If there is suspected artefact you can review the signal.



If you wish to exclude the data double click on the highlighted line in the **measurement table** and the reading will open. At the bottom of the box you can see the software interpretation on reliability, choose to exclude the measurement and provide comments.

Reading No.74, Time: 15:07

Measurement cause

Battery voltage

Body position and activity before start of measurement

Body Position

Activity Index  Position changes per minute

Measurement results

Systolic BP	205	Ref. Wave Transit Time	<input type="text"/>
Systolic BP (AUSC)	<input type="text"/>	Pulse Wave Velocity	<input type="text"/>
Mean BP	157	Augmentation Index	<input type="text"/>
Diastolic BP	123	(dP/dt)max	<input type="text"/>
Diastolic BP (AUSC)	<input type="text"/>	Aort. Systolic BP	<input type="text"/>
Pulse Pressure	82	Aort. Augmentation Index	<input type="text"/>
Heart Rate	88	PP Amplification	<input type="text"/>
Double Product	180	Ejection Duration	<input type="text"/>
		SEVR	<input type="text"/>

Measurement quality

Exclusion Code

Comment

Apply Cancel





Once the completed test has been reviewed interpretation can be added by clicking on the **view** menu at the top and then clicking **interpretation**.

BP LabWin

File Monitor Analysis Print View Settings Help

Interpretation F5

Measure table setup Ctrl+T

Trends setup Ctrl+F5

Signal setup Ctrl+F7

Trends-Signals-Osc. curve F4

Horizontal view

Vertical view

Patient data ABPM Data Analysis

Attempts to measure 70

Expected readings 70

Successful reading 65

% successful readings 93.0%

Analyzed 64

Patient name SAMPL\_Compar

Patient card No.

Address

Phone

Department

Room

Therapy Concor 2.5mg

Reasons for test Estimation of efficiency (repeated monitoring)

Notes Example for BPCcompare (comparison of two monitorings)

Institution

Doctor

Physician

\* - fields that influence the data processing

### Interpretation Screen

Edit interpretation

100%

According to the ABPM data against antihypertension therapy arterial hypertension was not diagnosed. The daily rhythm has changed: excessive decrease of DBP at night. Variability of SBP at day-time has increased.

Chars: 216 Remaining: 3880 Lines: 3 Remaining: 37





To generate a detailed report click on the **print** menu at the top then click on **report**. The **print report** dialogue box will appear. At the top click on **expert** and select the parameters for the desired report.

Print report

Expert Simple

Report sections

- ☒ Overview
- ☒ Interpretation
- ☒ Basic statistics
- ☒ Basic statistics by days
- ☒ Minimum and maximum values
- ☒ Minimum and maximum values by days
- ☒ 24 hour graphs of BP, HR and activity
- ☒ 24 hour graph of arterial stiffness parameters
- ☒ 24 hour graph of central aortic pressure
- ☒ Measurement table
  - ☐ Show measurements excluded from analysis
  - ☐ Show numerical codes in place of icons
- ☒ Pressure load
- ☒ Arterial stiffness analysis
  - ☒ Extended analysis by period
- ☒ Central aortic pressure analysis
- ☒ Cosinor analysis and morning trend
- ☒ Hourly average
- ☒ Histogram

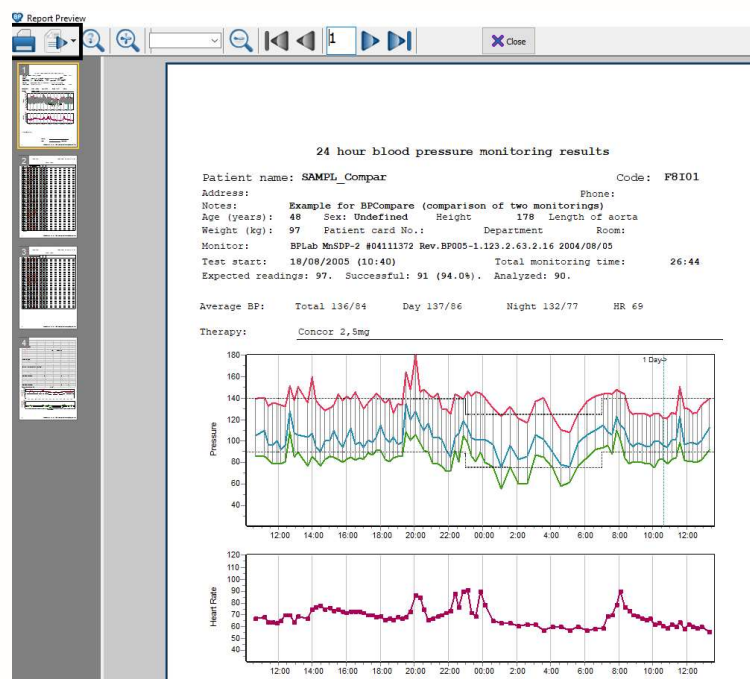
Select All Deselect All

☒ Save current settings as defaults

Print Preview Cancel

Number of pages: 12-13

Once report has been reviewed you can **print or export** report at the top left hand side of the screen. Export is available as a number of formats PDF, HTML, Excel, RTF, Word, JPG, XML and so on.





### **Data Tabulation**

If you are looking for software that performs data tabulation you will require the BPSTAT software. This software will supply blood pressure & pulse wave parameters from single in office measurements to multicentre data arrays.

Mean values, variability & other parameters of central and peripheral pressure such as arterial stiffness can be represented in single line or multi line arrays for each patient.

The software easily allows for test data to be exported to many programs including Microsoft Excel.

This software is ideal for those who deal with statistics, research & clinical trials.

