

WatchBP Analyzer

WatchBP Analyzer V1.3.1.0

Software User Manual

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1 Introduction

WatchBP Analyzer is the dedicated blood pressure software of Microlife professional blood pressure monitoring product series. It can connect and transfer data from WatchBP Office device series, WatchBP Home device series and WatchBP O3 device series.

1.1 What's New

- (1) Integrate with WatchBP Home devices series.
- (2) Export the usual mode and diagnostic mode report of WatchBP Home devices.

1.2 Environment Requirements

1.2.1 Compatible Devices

Devices Series	Model	Connection Method				
WatchBP Office	2G	USB & BT				
	Vascular	USB & BT				
	ABI	USB				
	AFIB	USB				
WatchBP O3	Ambulatory 2G	USB & BT				
	AFIB Ambulatory	USB				
	Ambulatory	USB				
WatchBP Home	WatchBP Home	USB				
	WatchBP Home A	USB				
	WatchBP Home A BT	USB (V1.3.1.0 only support USB communication)				

Note: Bluetooth connection doesn't support with Windows 7 & 8.

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1.2.2 Computer Requirements

Item	Requirements
OS of Windows	Windows 7 SP1 / 8 / 10/ 11
Processor	1GHz and above
Ram	512 MB and above
Disk Space	4.5GB free hard disk space and above
Data communication Interface:	 (1) USB2.0 and above (2) Bluetooth 4.0 and above Note: Bluetooth communication doesn't support with Windows 7 & 8.

1.3 Abbreviations and Terms

The below abbreviations are shown in the software and explained as below

#	Abbreviations	Interpretations
1	SYS	Systolic blood pressure
2	DIA	Diastolic blood pressure
3	MAP	Mean arterial pressure
4	PP	Pulse pressure
5	cSYS	Central systolic blood pressure
6	cDIA	Central diastolic blood pressure
7	cPP	Central pulse pressure
8	ABI	Ankle brachial index
9	PWV	Pulse wave velocity
10	Limb	The specific limb of the measurement (only for simultaneous double cuffs
		measurements)
11	HR	Heart rate (beats per minute)
12	AFIB	Atrial fibrillation
13	PVP wave	Brachial pulse waveform of the measurement
14	CODE	Events or errors

1.4 Installation

Download the WatchBP Analyzer software from the Microlife website: http://www.microlife.com/support/software-professional-products.

Double click on the downloaded installation program, the installation wizard dialog box will be shown.



Fig. 1 The installation wizard dialog box.

Click "Install" to start the installation of the WatchBP Analyzer. After successful installation, the dialog box will be shown as Fig 2.



Fig. 2

Then click "Finish" to complete the installation.

2 User Interface

	Patie	nt						Q. Search	
Device Name: WwishBP 03	Program device Na	me I	D		Gender	Apr	DOB	Physician	New
Joer ID.	Lieusure On	een Lantern	κ.		Male	31	07.27.1988	Dr. 1 *	Edit
latteries SV, Normal battery	Description 140	rley Quinn 🔰	Q		Female	31	07.27.1988	doctor2	Delete
ige. Aris, central str	1 24	per Man 8	м		Male	31	09.05.1988	doctor2	
09.05.2018	01.01.2004 01:01	120	80		60	8		Manual me	asurement
09.105.2018	01.01.2006 01:01	120	80		60	8		Manual me	asurement
09.05.2018 11.05.2018 09.18.2018	01.01.2006 01:01 01.02.2006 02:02 01.03.2006 03:03	120	80 80 80	4	60 60 60 60	5		Manual me Manual me Manual me	asurement asurement
09.05.2018 11.05.2018 09.18.2018 09.09.2019 09.11.2019	01.01.2006 01.01 01.02.2006 02.02 01.03.2006 03.03 01.04.2006 04.04	120 120 120 120	80 80 80 80	4	60 60 60 60 60	5 5 5		Manual me Manual me Manual me Manual me	asurement asurement asurement
04.05.2018 11.05.2018 04.05.2018 04.09.2019 04.11.2019 04.12.2019	01.01.2006 01:01 01.02.2006 02:02 01.03.2006 02:03 01.04.2006 04:04 01.05.2006 05:05	120 120 120 120 120	80 80 80 80 80	4 4 4 4	0 60 0 60 0 60 0 60	5 5 5		Manual me Manual me Manual me Manual me Manual me	asurement asurement asurement asurement
04.05.2018 11.05.2018 04.18.2018 04.05.2019 04.11.2019 06.12.2019 Webb82 Office	01.01.2004 01.01 01.02.2004 02.02 01.03.2004 02.03 01.04.2006 04.04 01.05.2006 05.05 01.04.2006 04.06	120 120 120 120 120 120	80 80 80 80 80 80 80	4 4 4 4	60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60	5 5 5 5		Manual me Manual me Manual me Manual me Manual me	asurement asurement asurement asurement asurement

Fig. 3

The user interface of WatchBP Analyzer is divided into four main areas and introduced as below.

2.1 Device Area

Device information will be shown when a WatchBP device is connected. The fields are interpreted as below.

[Fields Interpretation]

Fields	Interpretation
Device name	The name of the WatchBP model.
Device ID	A unique device ID of the unit.
Batteries	The area displays the voltage and status of batteries of the WatchBP O3. If the voltage is low and thus may not last for 24-hour session, the " Renew battery " message will be highlighted.
Туре	It shows the version of the device.
Options	It shows the extra options of the device. AFIB – device with AF detector; Central BP – device with the possibility of taking central blood pressure measurement.

[Button Functions]

The button functions are interpreted as below.

Buttons	Interpretation										
Program device	For WatchBP O3 and Office, program the settings to the device. The button is										
	enabled										
	when a compatible WatchBP device is connected. Click the button to program										
	the										
	device.										
	Note: This button cannot be pressed in WatchBP Vascular.										
Measure	Start or Stop measurement (Only supported in WatchBP Office only)										
	Set the measurement parameters, and then start a measurement										
	Note: This button is only supported in WatchBP Office.										
Download	Download BP data from the device to the software										

2.2 Patient Area

Users can register the patient in this area. Operators can manage the patient information in this area. Before programming settings to the device, initiating a measurement or downloading measurement data from device to PC, operators need to select a patient from the patient list first.

[Button Functions]

The button functions are interpreted as below.

Buttons	Interpretation
New	Press the "New" button to register a new patient account.
Edit	Press the "Edit" button to edit the selected patient account.
Delete	Press the "Delete" button to delete the selected patient account.
Search	Users could input the "name", "ID" or the "date of birth" to find out the specific patient.

2.3 Folder Area

When users select the specific patient, the corresponding historical measurement folder of the patient will be shown. The folder name is created by data types and displayed by the sequence of date. Measurements in the same date will be merged into the same folder.

All of the folders are interpreted as below.

Folder	Interpretation
WatchBP Office	Measurements of WatchBP Office series
WatchBP Office ABI	Measurements of WatchBP Office ABI (W/ waveform presentation)
WatchBP Office AFIB	Measurements of WatchBP Office AFIB (W/ waveform presentation)
WatchBP Office	Measurements of WatchBP Office Vascular (W/ waveform presentation)
Vascular	
WatchBP O3	Measurements of WatchBP O3 series
WatchBP Home	Measurements of Usual mode of WatchBP Home series
WatchBP Home A	Measurements of Usual mode of WatchBP Home A
7 day WatchBP O3	Measurements of HOME mode of WatchBP O3 Ambulatory (BP3MZ1-1)
7 day WatchBP Home	Measurements of Diagnostic mode of WatchBP Home
7 day WatchBP Home A	Measurements of Diagnostic mode of WatchBP Home A

2.4 Measurement Area

When the specific folder is selected, the corresponding readings will be displayed. The different fields are displayed when the different folder is selected.

Note: The abbreviation interpretation of the field could be referred to ch. 1.3.

Fig.4 shows the measurement list of WatchBP O3. Fig.5 shows the measurement list of WatchBP Office. Fig.6 shows the double arm measurement of WatchBP Office ABI. Fig.7 shows the WatchBP Office Vascular measurement list. Fig.8 shows the usual mode readings of the WatchBP Home. Fig.9 shows the diagnostic mode readings of the WatchBP Home.

Measurement Report													
	Date	SYS	DIA	HR	MAP	РР	cSYS	cDIA	cPP	AFIB	Exclude	PVP wave	CODE
3	07.30.2018 10:21	119	76	68	82	43	119	73	46			\sim	4,8
4	07.30.2018 10:22	119	78	68	86	41	120	75	45			\sim	4,8
5	07.30.2018 10:23	117	82	76	93	35	116	77	39	*		\sim	4,8
6	07.30.2018 10:25	115	78	72	87	37	116	75	41			\sim	4,8
_											_		

Measurement Report													
Average without first measurement													
	Date	SYS	DIA	HR	MAP	PP	cSYS	cDIA	cPP	AFIB	PVP wave	CODE	NOTE
	Average	120	76	69	86	44	121	72	49				
1	04.17.2019 10:44	128	77	66	85	51	130	71	59		\sim		
2	04.17.2019 10:45	114	73	70	79	41	115	71	44		\sim		
3	04.17.2019 10:47	118	78	70	93	40	119	75	44		\sim		



Me	easurement Re	port											
	Date	SYS	DIA	MAP	PP	ABI	Limb	HR	AFIB	Exclude	PVP wave	CODE	NOTE
1-1	05.20.2020 15:14	131	79	87	52		RightArm	93			\sim		
1-2	05.20.2020 15:14	140	92	98	48	1.07	RightLeg	93			\sim		
2-1	05.20.2020 15:15	129	72	82	57		RightArm	88			\sim		
2-2	05.20.2020 15:15	136	88	99	48	1.05	RightLeg	88			\sim		
3-1	05.20.2020 15:18	128	73	82	55		LeftArm	90			\sim		
3-2	05.20.2020 15:18	142	88	98	54	1.11	LeftLeg	90			\sim		

Fig. 6 Double arm measurement of WatchBP Office ABI

Note: The first number indicates the order of recording. The dash and number after the first number indicate that the blood pressure of different limbs was measured at the same time. (The examples are framed by red blocks)

	Date	SYS	DIA	MAP	PP	cSYS	cDIA	cPP	ABI	PWV	Index of cycle	Limb	Posture	HR	AFIB	Exclude	PVP wave	CODE	NOTE
1	2020.12.02 15:29										1	LeftArm		124				ER 5,	Abnormal result,
2	2020.12.02 15:31	104	61	70	43	107	61	46			2	LeftArm		65			\sim		
3-1	2020.12.03 13:22	93	52	71	41				1.58	1234	1	LeftArm	Supine	56			\sim		
3-2	2020.12.03 13:22	147	92	115	55				1.58	1234	1	LeftLeg	Supine	56			~		
4-1	2020.12.03 13:24	92	51	63	41				1.59	1234	2	LeftArm	Supine	58			\sim		
4-2	2020.12.03 13:24	146	87	106	59				1.59	1234	2	LeftLeg	Supine	58			\sim		
5	2020.12.03 13:37	152	98	110	54	135	88	47			1	LeftArm	Supine	58			\sim		
6	2020.12.03 13:38	146	94	112	52						2	LeftArm	Supine	61				ER 15,	Abnormal central blood pressure reading,

Fig. 7 WatchBP Office Vascular measurement list

Note: The first number indicates the order of recording. The dash and number after the first number indicate that the blood pressure of different limbs was measured at the same time. (The examples are framed by red blocks)

Me	asurement Re	port						
	Date	SYS	DIA	PP	HR	AFIB	Exclude	
1	19.08.2022 10:47	134	68	66	45			
2	19.08.2022 11:25	122	106	16	124			
3	19.08.2022 11:38	164	81	83	73	*		
4	22.08.2022 16:38	160	73	87	81	*		
5	22.08.2022 20:39	105	72	33	80			

Fig. 8 Usual mode readings of the WatchBP Home

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Me	asurement R	eport	1				
	Date	SYS	DIA	PP	HR	AFIB	Exclude
	Average	130	77		62		
	Morning Average	127	76		61		
	Evening Average	133	77		63		
	Day 1						
1	02.07.2011 07:00	151	96	55	61		
2	02.07.2011 07:03	150	95	55	60		
3	02.07.2011 19:00	151	96	55	61		
4	02.07.2011 19:03	150	95	55	60		
	Day 2						
5	03.07.2011 07:00	121	71	50	61		
6	03.07.2011 07:03	122	72	50	62		
	Day 3						
7	04.07.2011 07:00	121	71	50	61		
8	04.07.2011 07:03	122	72	50	62		
9	04.07.2011 19:00	121	71	50	61		
10	04.07.2011 19:03	122	72	50	62		
	Day 4						
11	05.07.2011 07:00	121	71	50	61		

Fig. 9 Diagnostic mode readings of the WatchBP Home

The fields of measurement area are explained as below.

[Fields Interpretation]	
Fields	Interpretation
Exclude	If the Exclude field is checked, the corresponding reading will be excluded in
	the analysis and the report.
Average without first	Users could check the box to average the data without the first measurement
measurement:	
Pulse Volume	When double clicking on the data showing a small wave icon, the PVP wave of
Plethysmographic (PVP)	the corresponding measurement will be displayed (only for the central BP
wave:	option). (Fig. 10a and 10b)
Code and Note:	Displays the codes of errors or events and brief description of the codes. Refer
	"Code, note and potential cause and remedy" for detail.







2.5 Report Area

[Button Functions]

The button functions are interpreted as below.

Buttons	Interpretation
Setting Office Blood	Choose the threshold of systolic and diastolic from the drop-down menus. The
Pressure Threshold	values over the chosen threshold will be shown in red.
Report option	Click to hide AFIB result.
Customization	You can type the name of centre/hospital, and upload an image file as your customized logo,the information you provide above will be displayed in the PDF report, folder, and XLSX report. You can choose the storage path here.
Generate PDF Report	Click to generate a PDF report for the selected Measurement Folder.
Open Folder	Open the folder that contains the reports of the selected patient.
Generate XLSX report	Click to generate an Excel report of the selected Measurement Folder.

Measurement	Report	
Customization Physician	14589	
Centre/Hospital	Clearwater Hospital	
Customized logo		Select Image File

Fig. 11

3 Working with WatchBP Analyzer

3.1 Patient Registration

You can manage the patients' information on the patient information area (Fig 12).

Pa	atient				Q Search		
	Name	ID	Gender	Age	DOB	Physician	New
	Green Lantern	GL	Male	30	1988.07.27	Dr. 1	Edit
	Harley Quinn	HQ	Female	68	1950.07.02	Dr. Quinzel	Delete
	Super Man	SM	Male	30	1988.09.05	doctor2	Delete
-							

Fig. 12

(1) Add a new patient:

Step1: Click the **New** button, a dialog box will be shown. (Fig 13). Step2: Input the patient ID, Name, Sex and Date of Birth; Physician ID, Email (optional) and Phone number (optional), then click **Okay** butt<u>on to finish the patient regi</u>stration.

Patient Info	rmation
Patient	
🖅 Patient ID	
😩 Name	
ç [∎] Sex	● Male ○ Female
📥 Date of Birth	5/12/1990
Physician	
🖃 Physician ID	*
🖾 Email	
📞 Phone	
C	Cancel
Fi	a. 13

(2) Edit the patient information:

Step1: Select a patient and then click **Edit** button, the patient information dialog box with the record will be displayed.

Step2: Edit the information and click **Okay** button to save the changes.

(3) Delete the patient:

Step1: Select the patient's account and then click **Delete** button. Then, a confirmation screen will be shown.

Step2: Press "yes" to delete the selected patient account from the list.

3.2 Program Settings to the Device

WatchBP Analyzer allows users to program settings to the device. First of all, users have to connect the WatchBP device to the WatchBP Analyzer. There are two ways to connect with the device: (1) Connect by USB cable, (2) Connect via Bluetooth.

Note: Program device will automatically clear all measurement data from the device. Make sure the measurement data on the device are downloaded to the PC before you program the device!

3.2.1 Bluetooth Connection

Model	Pairing – device	Ready to pair	Connected
WatchBP Office	Press and hold the	Bluetooth indicator	Shows Bluetooth indicator on
(BP35K1-3B)	MODE button for 7	flashes	device. Displays device
	seconds		information on the Analyzer.
WatchBP Office Vascular	Press and hold the	Bluetooth indicator	Shows Bluetooth indicator on
(TWIN200 VSR)	MODE button for 7	flashes	device. Displays device
	seconds		information on the Analyzer.
WatchBP O3	Press and hold the	Bluetooth indicator	Shows Bluetooth indicator on
(BP3S71-1)	MODE button for 7	flashes	device. Displays device
	seconds		information on the Analyzer.

Note: Bluetooth communication doesn't support with Windows 7 & 8.

Step1: Click **Bluetooth** at the upper right of the WatchBP Analyzer, then the available Bluetooth device will be shown.

Step2: Select the specific WatchBP device and click the Connect button to connect it. (Fig. 14)

Watch®P Analyzer v1.0.0.3	atchBP						- 🗆 × Bluetooth About
			Bluetooth				
Device		Patient	Name: WatchBP O3			Q, Sea	rch
Device Name: Device ID:	Program device	Name	MAC: DD2A718867CF Pair: True	Signal Strength: -56 db	DOB	Physician	New
Batteries	Measure	Mix Data 01			1943.02.01	Dr. A+	Edit
Type:		New 03 Device			1979.11.13	abcdefghijklmnop	Delete
		E3-13 (no AFIB)			2005.06.15	abcdefghijklmnop	
Folder	Measurement R	Report					
				_			
			Connect	Close			
						Copyright © Microlife Corp	oration. All rights reserved.

Fig. 14

Step3: Device information will be displayed once the connection is successful.



Note: If the Bluetooth connection keeps failing, please reset the Bluetooth bonding by pressing and holding the Start/Stop button of the device for 7 seconds and then start the connection again. Refer to user manual of the device for clearing bonding.

3.2.2 Program ABPM

3.2.2.1 Setting User Interface

There are two types of ABPM mode: (1) 2 schedules and (2) 5 schedules

Setting Day a	and Night Period			
Day Period	~ 22 with	20	*	minutes interva
	🗹 Central BP measurement	60	*	minutes interva
Night Period	22 🔻 ~ 7 with	30	-	minutes interva
	Central BP measurement	60	•	minutes interva
Setting Highe	est Inflation Pressure	Setting	Ambu	latory Option
Auto	O Manual	🗹 Hide B	3P read	ing
	180 🔻 mmHg	🗹 Silent	Mode	
*Auto is Reco	mmended			

Fig. 16: 2 schedules



Fig. 17: 5 schedules

<Setting measurement periods>

Click the number of periods you want to have. Set the start and stop hours to the period by the drop-down menu. Select the interval between each measurement. Click the Central BP if you want to measure the central blood pressure.

<Setting Highest Inflation Pressure>

The "Highest Inflation Pressure" can be programmed to the device. The 'Auto' option is recommended because then the device will automatically inflate the cuff to the optimal cuff pressure. With the 'Manual' option you can select 180, 200, 220 or 240mmHg. The suggested Inflation Pressure is 30 to 40 mmHg above the expected systolic value of the patient. If the selected Highest Inflation Pressure selected is too low to measure a patient's blood pressure it may result in re-pumping or erroneous blood pressure measurement values.

<Setting Ambulatory Option>

Select the 'Hide BP reading' to hide the readings of the measurement results during monitoring. This is the recommended option (default).

Select 'Silent mode' to disable the warning beep before starting the measurement. The patient will still get a warning 1 minute before the measurement by means of a short inflation of the cuff. The patient should keep the arm still during blood pressure measurement.

3.2.2.2 Program ABPM

When the above settings are done, click **Program** button to program the settings to the connected WatchBP O3 device.

3.2.3 Program Office

3.2.3.1 Setting User Interface

Number of measurements		5	*	
Countdown time before the first measu	irement	15	-	
Interval time between measurements		15	*	
Average without first measurement				
Child Mode (safeguard)	Measu	irement	options	
○ Enable	🗹 Hid	Hide BP reading		
mmHg	🗹 Ena	ble Centr	al Blood Pressure Measuremer	
			•	

Fig. 18

<Setting Number of measurements>

The number of measurements can be set from 1 to 6 measurements. Both the Count-down time before first measurement and Interval time between measurements can be set at 15, 30, 60, 120, 180, 240 and 300 seconds. Average without first measurement can be selected if Number of measurements is 3 measurements or more. When selected, the first measurement will be discarded from the average blood pressure value.

<Child Mode (safeguard)>

On default this mode is on Disable – the device automatically inflates the cuff to an optimal cuff pressure for blood pressure measurement. While enable is selected and confirmed by program, the device automatically inflates the cuff to an optimal cuff pressure not higher than the pressure selected for Child Mode, however,

the device may re- inflate the cuff to a pressure higher than the selected pressure if needed.

<Measurement options>

Hide BP readings and enable central BP measurement can be programmed to the device. Please refer to the instruction manual of the device for detail of the features.

3.2.3.2 Program to the Office Device

When the above settings are done, click **Program** button to program the settings to the connected WatchBP Office device.

3.3 Perform Measurement by WatchBP Analyzer

3.3.1 WatchBP Office ABI Measurement

3.3.1.1 Setting User Interface



Fig. 19

Example of the selection of an arm (left), both arms (middle) and Ankle-brachial Index measurement (right).

<Select the Intended Limb(s)>

Choose the intended limb(s) for the measurement at the top area. Note: only allow the selection of an arm, both arms, or an arm with a leg (ABI measurement).

<Setting Number of measurements>

The **Number of measurements** can be set from 1 to 6 measurements when you want to measure the blood pressure of an arm or both arms. Both the **Count-down time before first measurement** and **Interval time between measurements** can be set at 15, 30, 60, 120, 180, 240 and 300 seconds.

3.3.1.2 Performing Measurement

When the above settings are done, click **Measure** button to program the settings to the connected WatchBP Office ABI and then the measurement will be started.

The status of the measurement procedure is shown in the device information area, measurement readings will be automatically downloaded after each measurement.

During the measurement, the **Measure** button will be switched to **Stop** button; Click **Stop** button if users would like to stop the measurement. (Fig. 20)



3.3.2 WatchBP Office Vascular Measurement

Measure	
□ Right Arm	Left Arm
□ Right Leg	Left Leg
Number of measurements	1 👻
Countdown time before the first measurement	15 👻
Interval time between measurements	15 👻
Patient's position	Supine 👻
Child Mode (safeguard) Measuremer	nt options
 ● Enable ○ Disable 180 mmHg Repeat whe 	ading tral Blood Pressure Measurement en error
Measure Canc	el

3.3.2.1 Setting User Interface

Fig. 21

<Select the Intended Limb(s)>

Choose the intended limb(s) for the measurement at the top area.

<Setting Patient's Height>

The **patient's height** can be set by typing or by adjusting the bar of height. Note: The patient's height is crucial for PWV. Please set the height correctly when taking the PWV measurement.

<Setting Number of measurements>

The **number of measurements** can be set from 1 to 6 measurements when you want to measure the blood pressure of an arm or both arms. Both the **count-down time before first measurement** and **Interval time between measurements** can be set at 15, 30, 60, 120, 180, 240 and 300 seconds.

<Child Mode (safeguard)>

On default this mode is on **enable** – the device automatically inflates the cuff to an optimal cuff pressure for blood pressure measurement. While **disable** is selected, the device inflates the cuff to an optimal cuff pressure not higher than the selected pressure in the **Child Mode**, however, the device may re-inflate the cuff to a pressure higher than the selected pressure if needed.

3.3.2.2 Performing Measurement

Hide BP readings and Enable Central BP Measurement can be programmed to the device. Please refer to the instruction manual of the device for detail of the features.

When the above settings are done, click Measure button to program the settings to the connected WatchBP

Office Vascular and then the measurement will be started.

The status of the measurement procedure is shown in the device information area, measurement readings will be automatically downloaded after each measurement.

During the measurement, the **Measure** button will be switched to **Stop** button; Click **Stop** button if users would like to stop the measurement. (Fig. 22)

Device				
Device Name: Device ID: Batteries	Office Vascular D4888073EFF1 6 7 V	Program device		
Туре:	AFIB, Central BP, ABI, PWV	Download		
Status: 1/6	Countdown: 44	Eig 22	Status: 1/6	Countdown: Stop

3.4 Download Readings from WatchBP Devices

Step1: Users need to connect the device to the WatchBP Analyzer first to download the readings from the WatchBP device. Users could refer to Ch 3.2 and 3.2.1 to know how to connect the device. Once the device connection is successful, the device information will be displayed in the Device area as below.

Device		
Device Name:	WatchBP Home A	
Device ID:	BT011	
User ID:	1001	
Batteries	4.4 V, Renew battery	······
Туре:	AFIB	Download



Step2: Select a patient by clicking anywhere of that patient bar.

Patient				Q Search		
Name	ID	Gender	Age	DOB	Physician	New
Green Lantern	GL	Male	30	1988.07.27	Dr. 1	Edit
Harley Quinn	HQ	Female	68	1950.07.02	Dr. Quinzel	Delete
Super Man	SM	Male	30	1988.09.05	doctor2	Delete
						_



Step3: Click the **Download** button to transfer the BP data from the device to the **Folder** of that patient in WatchBP Analyzer. If the selected patient ID on the software is different from the patient ID that has been

WatchBP Analyzer

programmed to the device, a message as below will be shown. Users need to select which patient ID needs to be assigned to retrieve the data. (Fig. 25, WatchBP O3 only). Once the patient ID is selected, click **Continue** button to download the data.

Download
The data on the device refers to patient ID HQ
Currently Patient ID SM is selected Which patient shall the data be assigned?
 HQ SM Continue Cancel
L

Fig. 25 (HQ and SM are the patient ID examples)

Step4: If the device was programmed to also perform central blood pressure measurement, another dialogue as below will be displayed. Check the check box before **transfer waveform data** and click **Continue** button to download the waveform. (Fig 26)

Download
transfer waveform data (It may takes a few minutes to download all the raw data)
Continue Back

Fig. 26

Step5: When the data download is done, the corresponding date and time folder will be added to the assigned patient.

3.5 Review the Retrieved Readings

Step1: Select the specific date from the folder area. The Folder is named by the device or measurement mode. All of the folders could refer to the Ch.2.3.



Fig. 27

Step2: Click **Measurement** Tab to review the measured records of the Folder.

Meas	urement Report												
	Date	SYS	DIA	HR	MAP	PP	cSYS	cDIA	cPP	AFIB	Exclude	PVP wave	CODE
3	07.30.2018 10:21	119	76	68	82	43	119	73	46			\sim	4,8
4	07.30.2018 10:22	119	78	68	86	41	120	75	45			\sim	4,8
5	07.30.2018 10:23	117	82	76	93	35	116	77	39	*		\sim	4,8
6	07.30.2018 10:25	115	78	72	87	37	116	75	41			\sim	4,8
_											_		

Fig. 28

3.6 Export Report

Step1: Select the specific date from the folder area.

Folder	
WatchBP 03	~
WatchBP Home A	~
2022.08.24	
7-day WatchBP Home A	~
F ig. 00	

Fig. 29

Step2: Click **Report** Tab to view the settings and generate report of the Measurement Folder.

WatchBP Office, WatchBP O3 and WatchBP Home series have different user interface of report tab. It's described as below.

WatchBP Analyzer

3.6.1 Report Tab of WatchBP O3 Series

The report tab of WatchBP O3 is shown as below. It can be divided into (1) setting area, (2) option area and (3) customized area.

Measurement	Report							
Setting Blood Pr	essure Threshold							
	24-hour SYS	130	▼ mmHg	24-hour DIA		80	▼ mmHg	
	Day SYS	135	▼ mmHg	Day DIA		85	▼ mmHg	
	Night SYS	120	✓ mmHg	Night DIA		70	✓ mmHg	
Setting Actual A	wake / Asleep Time							
		Awake Time	14	👻 Asleep Time	16	-		
Report Option								
☐ Hide error and ☐ Hide AFIB resu	event messages It							
Customization								
Physician	MICROLIFE							
Centre/Hospital	Hospital							
Customized logo	C:\Users\betsy.huang\Desktop\							Select Image File
Report Folder	C:\Microlife\WatchBP Analyzer\Report							Path
	Generate PDF Report			Open Folder			Generate XLSX Repo	rt
				Fig. 30				

3.6.1.1 Settings Area

Catting D	lood Droccure	Threshold							
setting E	lood Pressure	Inresnoid							
	24-hour SYS	130	٣	mmHg		24-hour DIA	80	*	mmHg
	Day SYS	135	*	mmHg		Day DIA	85	*	mmHg
	Night SYS	120	*	mmHg		Night DIA	70	Ŧ	mmHg
Setting A	Actual Awake /	Asleep Tim	ne						
		Awake Tim	ne	7	*	Asleep Time	22	*	



Setting Blood Pressure Threshold:

Users can use the default threshold values (as recommended by the guidelines) or select another threshold value for 24h-hour, day and nighttime blood pressures.

Setting Actual Awake/ Asleep Time:

Users could modify the awake and asleep time according to patient's actual lifestyle. The awake time can be selected from 00:00 to 23:00, asleep time can also be selected from 00:00 to 23:00.

3.6.1.2 Option Area



Hide error and event messages: The error and event can be hidden in the PDF report. **Hide AFIB result:** The AFIB alert can be hidden in the PDF report.

3.6.1.3 Customization Area

Measurement	Report			
Customization				
Physician	Dr. Doctor			
Centre/Hospital	Hospital			
Customized logo	C:\Users\Public\Pictures\Sample	Pictures\Tulips.jpg		Select Image File
Report Folder	C:\Microlife\WatchBP Analyzer\F	eport		Path
Genera	te PDF Report	Open Folder	Generate XLSX	Report
		Fig. 33		

Users can set (1) Physician Information, (2) Hospital Name, (3) Report Logo and (4) Save Folder Path at this area. When the above settings are done, press the **Generate PDF Report/ Generate XLSX Report** button to generate the report.

3.6.1.4 Input Auto Comment

Click the **Generate PDF Report** button, an **Auto comment** dialog appears with the comments will be automatically generated. The comments can be modified or added manually.

Auto comment	
Daytime Normotension, Isolated 24-h Diastolic Hypertension, Isolated NightTime Diastolic Hypertension, White Coat Hypertension, Non-Dipper	
Save Cancel	
Fig. 34	

Then click **Save** button to generate the report.

3.6.1.5 PDF Report

Ambulatory Bloc Measurement Re	d Pre	SP	C)3		Pa Na Se Da	tient K me x e te of b	erth	HQ Harley Q Female 68 07.02.19	uinn 50		Healt Physi Email Phon Study	h facil Iclan I e y date	WY	NameC Dr. Qui Harloyi 1-234-6 12.13.2	htheHo nzel Babc.cc 567-890 1018	spital om)
Day and Night F	Period	1	_		-		160 -	-								-	
	T	ME	INT	ERVAL													
Night:	2	-20h 0-7h	30 1	min			140									AA	AA
					_			VA	M	~	~	1.	8		1	11	WW
Actual Awake / . Awaker	7	P-20 h				CAN	120	-	1	v		V	17	~	N	1	
Asleep:	20	5~7 h				SV5.0	100					. 1	V		H .		
BP Threshold						Ĩ	100		N	-						1	12 21
24-hr:	13	30/80 e	nmHg	i.		-	80	M	IV	V	10	1	AP	-	1	(V)	MA /
Day:	1:	35/85 1	nmHg						1			V	Y	V	LA		. VU
ingin.	1.	00/101	rq	,			60	-	1						~		
Readings	3	3															
Total Readings: Successful:	63	3	963				40 -	_			-						
AFIB:	11	8 (30.0	1%)			100	100						~				
White Coat Win	dow	_			-	0.00	40-	Jer 1	ners.	the second	~	****					~~~~~
	8	YS	DV	A HR		q	20				-						AFIB • Normal
Readings 1st by Marc	2		2	2		ball				- 1						1	
Tax to max		~	~	14	_		10:0	0 12:00 14	00 16:00	18:00	20:00	22:00	00:00	0 02:00 0	4:00 96:0	0 08.00	10:00 12:00
Night-time Dip?	•	545		2222													
Din%	S	YS		DIA				Blood Do			_	_	_				
actual 200	100	1.00		0.76			000	ENERGIA PTR	100 100 1264	a 6							
		~						SYS	DIA	110	t	MAP	PP	cSYS	cDIA	cPP	AFIB(%)
BP Load						24	-hr	5YS 124(8)	DIA 81(6)	HR 68((4)	MAP 95	PP 42	cSYS	cD(A -(·)	cPP	AFIB(%) 18(30)
BP Load Day readings Night readings	2 2	135/8	5	53.8 % 85.7 %		24 A0	i-hr vake Joep	5YS 124(8) 127(6) 117(5)	DIA 81(6) 83(6) 78(6)	HR 68(68(69)	(4) (3) (5)	MAP 95 97 90	PP 42 44 38	cSYS -{·) -{·) -{·)	cDIA -(-) -(-) -(-)	cPP - -	AFIB(%) 18(30) 10(26) 8(36)
BP Load Day readings Night readings	~ ~ ~	135/8 120/7	5	53.8 % 85.7 %		24 Ao Ad	i-hr vako Joop	SYS 124(8) 127(6) 117(5)	DIA 81(6) 83(6) 78(6)	HR 68(68(69)	(4) (3) (5)	MAP 95 97 90	PP 42 44 38	cSYS -(-) -(-) -(-)	cDIA -(-) -(-) -(-)	cPP - - -	AFIB(%) 18(30) 10(26) 8(36)
BP Load Day readings Night readings	~ ~	135/8 120/7	5 0 cooe	63.8 % 85.7 %	575	24 A0 A1	i-hr vako Joop	5YS 124(8) 127(6) 117(5)	DIA 81(6) 83(6) 78(6)	HR 68(68(69)	(4) (3) (5)	MAP 95 97 90	PP 42 44 38	cSYS (+) (+) (+)	cDIA -(-) -(-) -(-)	cPP - -	AFIB(%) 18(30) 10(26) 8(36)
BP Load Day readings Night readings Twe svs co. H 12 13.2018	2 2	135/8/ 120/7/	5 0 cooe	53.8 % 85.7 % THE 21.50	SYS	24 Ao Ai	i-hr vako Joop	8Y8 124(8) 127(6) 117(5)	DIA 81(6) 83(6) 78(6) 78(6)	HR 68(68(69) 878 0 121	(4) (3) (5)	MAP 95 97 90	PP 42 44 38	cSYS -(-) -(-) -(-)	cDIA -(·) -(·) -(·)	cPP - -	AFB(%) 18(30) 10(26) 8(36)
BP Load Day readings Night readings Twe sys cv. H 12 13.2018 03.00 138 04 7 11.00 133 86 6	2 2 8 8 8 9 9 9 9 9 9 9	135/8 120/7	5 0 0000	53.8 % 85.7 % 7ME 21:50 22:00 22:50	5Y5 127 107	24 Ao Ac 04 H	Hhr vako Joop R KAP a 16 a 16 a 12	SYS 124(8) 127(6) 117(5)	DIA 81(6) 83(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78(6) 78	HR 68(68(69(121 131 127	L (4) (3) (5) 26 H	MAP 95 97 90 90 90	PP 42 44 38 ***	cSYS -(-) -(-) -(-)	cDIA -(-) -(-) -(-)	cPP - -	AFB(%) 18(30) 10(26) 8(35)
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BP Load Day readings Night readings 1142 532018 12 13.2018 12 13.2018 12 13.2018 12 13.2018 12 13.2018 12 12 12 12 15 12 12 15 12 12 15 13 12 15 15 15 15 12 15 15	≥ ≥ 2 2 2 2 2 2 2 2 2 2 2 2 2	135/8 120/7	5 0 coooe 1 1	53.8 % 85.7 % 21.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 20.90 20.90 0.00 0.0	575 107 122 106 108 108 117 119 117 119 116 117 100 108 115 110 100 119 119 119 119 119 119 119 119	24 Aa Aa Aa 77 1 77 1 77 1 77 1 77 1 77 1 77 1 77		5YS 124(8) 127(6) 117(5) *** * * * *	DIA 81(6) 83(6) 78(6) 78(6) 1000 1100 1100 1100 1100 1100 1100 11	HR(66) 660 121 131 121 121 122 122 122 122 123 123	(4)(3)(5) 第二部 新加加 新加加 新加加 新加加 新加加 新加加 新加加 新加加 新加加 新加	MAP 95 97 90 5 91 5 91 5 97 5 90 5 97 5 90 5 97 90 5 97 90 90 90 90 90 90 90 90 90 90 90 90 90	PP 42 44 38 * * * * * * *	cSYS (-) (-) (-) (-) (-) (-) (-) (-)		6PP -	AFB(%) 18(30) 10(26) 8(35)
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BP Load Day readings Night readings Twe SYS CA H 12 13.2018 12 13.2018 13 13.2018 15 13.	≥ 2 2 2 2 2 2 2 2 2 2 2 2 2 2	135/8 120/7 *	5 0 1 1	53.8 % 85.7 % 21.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 22.90 20.90 0.90	915 127 127 127 127 127 128 108 119 118 117 100 108 117 110 108 117 110 108 117 110 108 117 110 108 119 110 110 108 119 110 110 110 110 110 110 110 110 110	24 Ao Ad 75 1 1 80 1 77 1 77 1 77 1 77 1 77 1 77 1 77 1 80 1 80 1 80 1 80 1 80 1 80 1 80 1 80		5YS 124(8) 127(6) 117(5) *** * * * *	DIA 81(6) 83(6) 78(6) 78(6) 1000 1100 1100 1100 1100 1100 1100 11	HE(6) 66) 66) 121 137 127 140 126 127 127 140 128 127 127 127 127 127 127 127 127 127 127	(4) (5) (4) (5) (4) (5) (4) (5) (4) (5) (4) (5) (4) (5) (4) (5) (4) (5) (4) (5) (5) (4) (4) (5) (5) (4) (5) (5) (5) (5) (5) (5) (5) (5) (5) (5	MAP 95 97 90 90 90 90 90 90 90 90 90 90 90 90 90	PP 42 443 * * * * * *	cSYS (-) (-) (-) (-) (-) (-) (-) (-)		6PP -	AFIB(%) 18(30) 10(26) 8(35)
BP Load Day readings Night readings Night readings 11462 5YS C44 H 12 13.2015 1030 133 55 6 1130 133 55 6 1130 133 55 6 1130 133 55 6 1130 139 55 6 1220 120 77 7 1245 100 139 55 6 1230 120 75 7 1330 129 55 7 1400 104 55 5 1400 102 75 6 1500 123 57 6 1700 124 55 6 1540 133 57 7 1500 123 57 6 1500 123 57 6 1500 123 57 6 Comment: Daytime Norm: NightTime Diat	≥ 2 2 2 2 2 2 2 2 2 2 2 2 2 2	*	5 0 1 1 1 1 0 0 0 0 0 0 0 0 0	53.8 % 85.7 % 7140 21:50 22:50 22:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 23:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 25:50 2	575 127 122 121 100 122 121 100 100 110 110 110	24 Ao Ac Ac Ac Ac Ac Ac Ac Ac Ac Ac Ac Ac Ac	Libr Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop Alloop	5YS 124(8) 127(6) 117(5) *** coor * * * * * * *	DIA 81(6) 83(6) 78(6) 78(6) 100 1100 1100 1100 1100 1100 1100 110	HR 688 688 689 699 127 127 127 127 127 127 127 127 127 127	(4) (4) (5) (4) (5) (4) (5) (4) (4) (4) (4) (4) (4) (4) (4) (5) (5) (4) (4) (4) (5) (5) (4) (4) (5) (5) (5) (4) (5) (5) (5) (5) (5) (5) (5) (5) (5) (5	MAP 95 97 90 90 10 10 10 10 10 10 10 10 10 10 10 10 10	PP 424438 * * * * * *	cSYS		6PP -	AFIB(%) 18(30) 10(26) 8(38)

Fig. 35 WatchBP O3 ABPM report

Note: The file name of the report is built with the patient ID, device name, date and time the report is created for example: PatientID_WatchBPO3_2018_11_05_10_54.pdf.

3.6.2 Report Tab of WatchBP Office Series

The report tab of WatchBP Office is shown as below. It can be divided into (1) setting area, (2) option area and (3) customized area.

Setting Office B	lood Pressu	re Threshold		
s	YS	140	▼ mmHg	
C	AIG	90	✓ mmHg	
Report Option				
Hide error and	event messa	ges		
Average witho	ilt out first measu	urement		
Average witho	ut first measu	arement		
Average witho	MICROLIFE	urement		
Average without Customization Physician Centre/Hospital Customized logo	MICROLIFE Hospital C:\Users\be	irement itsv.huano\Deskto	A	Select Image File
Inde Arib resc Average witho Customization Physician Centre/Hospital Customized logo Report Folder	MICROLIFE Hospital C:\Users\be	arement atsy.huang\Deskto atsy.huang\Deskto	۸ >	Select Image File Path

3.6.2.1 Setting Area



Fig. 37

Setting Office Blood Pressure Threshold:

Users can use the default threshold or define threshold by themselves.

3.6.2.2 Option Area



Hide error and event messages

- Hide AFIB result
- Average without first measurement

Fig. 38

Hide error and event messages:

The error and event can be hidden in the PDF report. **Hide AFIB result:** The AFIB alert can be hidden in the PDF report.

Average without first measurement:

The first measurement can be excluded when the average blood pressure is calculated.

3.6.2.3 Customization Area

Measurement	Report			
Customization				
Physician	Dr. Doctor			
Centre/Hospital	Hospital			
Customized logo	C:\Users\Public\Pictures\Sample P	ictures\Tulips.jpg		Select Image File
Report Folder	C:\Microlife\WatchBP Analyzer\Re	port		Path
Genera	te PDF Report	Open Folder	Generate XLSX Re	eport
		Fia. 39		

Users can set (1) Physician Information, (2) Hospital Name, (3) Report Logo and (4) Save Folder Path at this area. When the above settings are done, press the **Generate PDF Report/ Generate XLSX Report** button to generate the report.

3.6.2.4 PDF Report

VatchBP O	ffice	Patient ID Name Sex Age Date of birth	harlequin Harley Qui Female 31 07.27.1980	Healt nn Physi Email Phon 3 Study	h facility iclan e y date	NameOftheHospital Dr. Quinzel Harley@abc.com 1-234-567-890 05.20.2020
Right Arm - Average(2)					Left Arm	- Average(3)
SYS DIA MA 130 76 85	P PP HR 55 91					SYS DIA MAP PP HF 126 74 84 52 89
Latest measurement		1	\frown		Latest me	easurement
Date Time SYS DIA MA 05.20.2020 15:15 129 72 82	P PP HR 57 88				Date 05.20.203	Time SYS DIA MAP PP HP 20 15:21 122 77 89 45 91
~~~~~	$\sim$	7	X	1	$\sim$	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Os 1s 2s 3s 4	5		( )		0 s 1	5 25 35 45
Right Leg - Average(2), ABI 1.	80	1		1	Left Log	- Average(3), ABI 1.09
SYS DIA MAI 138 90 99 Latest measurement	P PP HR 48 91				Lafest me	SYS DIA MAP PP HF 142 89 98 53 89 easurement
Date Time SYS DIA MA 05.20.2020 15:15 136 88 99	P PP HR 48 88		$\mathbb{F}$		Date 05.20.20	Time SYS DIA MAP PP HF 20 15:21 135 90 99 45 91
mm	$\sim$		11		$\sim$	mm
05 15 25 35 4	5				05 1	5 25 35 45
Ngint Arm Date 05.20.2020 05.20.2020	Time 15:14 15:15	SYS 131 129	DIA M/ 79 87 72 82	VP PP 52 57	HR 93 88	AFIB - -
Left Arm						
Date	Time	SYS	DIA M/	P PP	HR	AFIB
05.20.2020	15:18	128	73 82	55	90	
05.20.2020	15:21	122	77 89	45	91	
Right Leg						
Dato	Time	SYS	DIA M/	VP PP	HR	ABI
05.20.2020	15:14	140	92 98 88 99	48	93 88	1.1
	10.10	100	20 30		00	- 00
Left Leg	Time	eve	DIA 44	P P0	LID.	ABI
05.20.2020	15:18	142	88 98	- PP 54	90	1.1
05.20.2020	15:20	149	90 97	59	86	1.1
15.20.2020	15:21	135	90 99	45	91	1.0
						microl

#### 3.6.3 Report Tab of WatchBP Home

Measurement	Report		
Customization			
Physician	Dr. Doctor		
Centre/Hospital	Hospital		
Customized logo	C:\Users\Public\Pictures\Samp	le Pictures\Tulips.jpg	Select Image File
leport Folder	C:\Microlife\WatchBP Analyzer	\Report	Path
Genera	te PDF Report	Open Folder	Generate XLSX Report
		Fig. 41	

#### 3.6.3.1 Customization Area

Users can customize the (1) **Physician, (2) Centre/Hospital name** and (3) the **logo of the report** to show on the PDF report. In addition, users also could set the storage path of the report.

Customization		
Physician	microlife	
Centre/Hospital	Hospital	
Customized logo	D:\Users\Morris.Huang\Desktop\squirtle.png	Select Image File
Report Folder	C:\Microlife\WatchBP Analyzer\Report	Path

Fig. 42

#### 3.6.3.2 Generate Report

When the above settings are done, users can press the **Generate PDF Report/ Generate XLSX Report** button to generate the report.

#### 3.6.3.3 PDF Report

Watcl Measurement Re	hBP	Ho	ome /	A Patient Name Sex Age Date of	ID Hom Hom Fem 12 I birth 15.1:	eOld0822 e_old 202 ale 2.2009	2.08.22	Health facilit Physician Email Phone Study date	ty Hospital Dr. Doctor doctor.dr@n tel12345678 02.07.2011	<u>Nuo.qwuy</u> 90 #12345(123)
	10202	- 222		DATE	TIME	575	DIA	HR	PP AFIB	
	SYS	DIA	HR	Day 1						
Average	130.5	78.7	62.2	02.07.2011	07.00	151	96	61	55	
Norming Average	127.3	76.3	61.3	02.07.2011	07:03	150	95	60	55	
Evening Average	133.1	77.1	62.9	02.07.2011	19:00	151	86	61	55	
				02.07.2011	19.03	150	95	60	55	
				Day 2						
				03.07.2011	07:00	121	71	61	50	
				03.07.2011	07:03	122	72	62	50	
				Day 3						
				04.07.2011	07.00	121	71	61	50	
				04.07.2011	07:03	122	72	62	50	
				04.07.2011	19.00	121	71	61	50	
				04.07.2011	19:03	122	72	62	50	
				Day 4						
				05.07.2011	07:00	121	71	61	50	
				05.07.2011	07:03	122	72	62	50	
				05.07.2011	19:00	120	70	60	50	
				05.07.2011	19:03	121	71	61	50	
				Day 5						
				06.07.2011	07:00	121	71	61	50	
				06.07.2011	07:03	122	72	62	50	
				06.07.2011	19.00	125	75	65	50	
				06.07.2011	19.03	120	70	60	50	
				Day 6						
				07.07.2011	19:00	120	70	60	50	
				07 07 2011	19.03	121	71	61	50	
				Day 7						
				18 08 2023	29.45	164	60	72	54	
					2.1.40	-04	00		-	

Fig. 43 WatchBP Home report (Diagnostic Mode)

## 3.7 History Readings Management

#### 3.7.1 Delete a Measurement Folder

Step1: Select a patient in the patient list.

Step2: Then the corresponding measurement folder of this patient is shown.

Step3: Select the specific date from the folder area.

Step4: Right click the mouse on the folder, the Delete option will be shown.

Step5: Press the **Delete** button and then the folder will be deleted.

Folder	
WatchBP O3	^
09.05.2018	U
11.05.2018	
09.18.2018	Delete
09.09.2019	
09.11.2019	
09.12.2019	
1	

Fig. 44

## 4 Activate the Device

WatchBP Analyzer provides activation functions for distributor to unlock the settings of the devices.

Step1: Click About button on the upper right on the WatchBP Analyzer.

microlife WatchBP		Bluetooth	About
Device	Patient	O Search	
	Fig. 45		

Step2: Then the corresponding activation option dialog will be shown. Note: Based on the connected device to decide what options are shown.

## 4.1 AFIB / AFIB & Central BP options

The Atrial Fibrillation Detector (AFIB) and Central Blood Pressure unlock options are provided with (1) **WatchBP 03 (model BP3SZ1-1)** and (2) **WatchBP Office (model BP3SK1-3B)**. There are three device models provided:

(1) Standard: standard ABPM

- (2) **AFIB**: standard ABPM with Microlife Atrial Fibrillation Detector
- (3) AFIB & Central BP: standard ABPM with Microlife Atrial Fibrillation Detector and Central Blood Pressure measurement



## 4.2 ABI / PWV & Central BP options

The ankle-brachial index (ABI), brachial-ankle pulse wave velocity (PWV), and

Central Blood Pressure measurement unlock options are provided with WatchBP Office Vascular (model TWIN200 VSR). There are three device models provided:

(1) **Standard**: WatchBP Office Vascular.

- (2) ABI: standard ankle-brachial index (ABI) with WatchBP Office Vascular.
- (3) PWV & Central BP: WatchBP Office Vascular with PWV & Central BP functions.

Туре:			
ABI	Activate	?	
PWV & Central BP	Activate	?	
Please consult Microlife or the local	distributor with the	option "	Activation"
	Okay		
Fi	g. 47		

## 4.3 **Procedure of the Activation**

Activation key is needed to activate the lock features. Users have to contact Microlife or the local distributor to have the activation key. The Activation procedure is described as below.

Step1: Click on the question mark (?) button at the right side of the Activate button.



Step2: Then device information dialog will be shown as below.

Please copy distributor fo Device ID: EB	and transfer t ractivation key B417515EA3	he informatio of the specific	n while con device ID.	tacting Microlif	e or the local
Firmware ver Feature to be	activated: ABI	19.29			
			1	Copy	Close

Fig. 49

Step3: Send the device information to Microlife or the local distributor.

Step4: The vendor will send back the activation key to the qualified users.

Step5: Click the Activate button of the specific option and the below dialog will be displayed.



Fig. 50

Step6: Input the **Activate Key** and press the **Confirm** button. If the key is valid, the activated message dialog will be shown as below. When the dialog is displayed, it means the option is activated successfully.

## WatchBP Analyzer



## Appendix A: Error Code List

CODE	NOTE	Potential cause and remedy
1	Pill record	
2	device power on	
3	device power off	
4	Low battery	
5	Empty battery	
6	Re-try measurement	
7	Measurement manually terminated	
8	Manual measurement	
Er 1	Signal too weak	The pulse signals on the cuff are too weak. Reposition the cuff and repeat the measurement.
Er 2	Error signal	During the measurement, error signals were detected by the cuff, caused by e.g. movement or muscle tension. Repeat the measurement, keeping your arm still.
Er 3	No pressure in the cuff	An adequate pressure cannot be generated in the cuff. A leak may have occurred. Replace the cuff if necessary. Repeat the measurement.
Er 5	Abnormal result	The measuring signals are inaccurate, and no result can therefore be displayed. Read through the checklist for performing reliable measurements and then repeat the measurement.
Er 11	Signal too weak during central blood pressure measurement	The pulse signals on the cuff are too weak. Re-position the cuff and repeat the measurement.
Er 12	Error signal during central blood pressure measurement	During the measurement, error signals were detected by the cuff, caused by e.g. movement or muscle tension. Repeat the measurement, keeping your arm still
Er 13	Cuff pressure errors during central blood pressure measurement	An adequate pressure cannot be generated in the cuff. A leak may have occurred. Check if the cuff is correctly connected and is not too loose. Replace the batteries if necessary. Repeat the measurement
Er 15	Abnormal central blood pressure reading	The measuring signals are inaccurate and no result can therefore be displayed. Read through the checklist for performing reliable measurements and then repeat the measurement.
Er 21	Error signal during collecting pulse wave signals	Check if the cuff is correctly connected and is not too loose. Replace the blood pressure cuff if necessary. Repeat the measurement.
Er 23	Cuff pressure errors during collecting pulse wave signals	Check if the cuff is correctly connected and is not too loose. Replace the blood pressure cuff if necessary. Repeat the measurement.
Er 25	Abnormal result of baPWV reading	Check if the cuff is correctly connected and is not too loose. Replace the blood pressure cuff if necessary. Repeat the measurement.
Er F	The device has gone into "single fault condition"	Re-position the cuff and repeat the measurement. Replace the batteries if necessary. If the error persists, contact Microlife or local distributor
Er A	Flash memory error	Possible hardware fault. Try again. If the error persists, contact Microlife or local distributor
н	Pulse or cuff pressure too high	The pressure in the cuff is too high (over 299 mmHg) OR the pulse is too high (over 239 beats per minute). Relax for 5 minutes and repeat the measurement.
LO	Pulse too low	The pulse is too low (less than 30 beats per minute). Repeat the measurement.

Note: The CODE is shown at measurement list on Measurement Tab, PDF and Excel report. The NOTE (the message provided by the software) is shown on Analyzer.

## Appendix B: SW Error Messages

#	Error/ Alert Message	Potential cause
1	Not supported	[USB Connection] The connected device is not supported by the WatchBP Analyzer
2	Connection Timeout	[USB Connection] The connection time out.
3	Connect_Error! Please try again	[USB Connection] During the device connection, some expected errors are occurred.
4	Passkey not match. Please press and hold the MODE button of the device for 7 seconds to enter Bluetooth mode, press and hold start/Stop button for 5 seconds to reset the connection. Enter Bluetooth pair mode again and then click 'Connect' button of the Analyzer	[BT Connection] If the BT pairing is removed in the WatchBP Office devices.
5	Passkey not match. Please press and hold the MODE button of the device for 7 seconds to enter Bluetooth mode, and press the Start/Stop button for 5 seconds to reset the connection. Then press the MODE button to clear the connection. Enter Bluetooth pair mode again and click the 'Connect' button of the Analyzer.	[BT Connection] If the BT pairing is removed in the WatchBP Office vascular devices.
6	Passkey not match. Please press and hold the Start/Stop button of the device for 5 seconds to reset the connection. Enter Bluetooth pair mode again and then click 'Connect' button of the Analyzer.	[BT Connection] If the BT pairing is removed in the WatchBP O3 devices.
7	Opps!The Bluetooth is turned off. Please go to the setting page to turn on the Bluetooth first.	[BT Connection] The BT setting of the PC is not turned on.

## **Appendix C: Contact Information**

The contact information can be found on the equipment labeling:

#### Europe / Middle-East

Asia

/ Africa MicrolifeAG Espenstrasse 1399443 Widnau, Switzerland Tel. +41 71 727 7000 Fax. +41 71 727 7011 Email:watchbp@microlife.ch www.watchbp.com

Microlife Corporation 9F., No.431, Ruiguang Rd., Neihu Dist., Taipei City 114, Taiwan, China Tel. +886 2 8797 1288 Fax +886 2 8797 1283 Email: <u>watchbp@microlife.com.tw</u> www.watchbp.com

The authorized representative for Microlife Cooperation in Europe is:

#### North / Central / South

America Microlife USA, Inc. 1617 Gulf to Bay Blvd 2nd Floor, Suite A Clearwater, FL 33755, USA Tel. +1 727 442 5353 Fax +1 727 442 5377 Email: msa@microlifeusa.com www.watchbp.com

Microlife UAB P. Lukšio g. 32 08222 Vilnius, Lithuania