

## **RESmart<sup>®</sup> nPAP Data Statistics Software**

# **User Manual**



Solutions in Sleep Therapy™

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## Content

1	Intro	oduction		3			
	1.1	Fund	ction	3			
	1.2	Software Environment					
	1.3	Soft	ware Installation	3			
		1.3.1	Install Software	3			
		1.3.2	Install the USB Driver	5			
	1.4	Intro	oduction to the User Interface	6			
		1.4.1	Shortcut Operation	6			
		1.4.2	Toolbar	7			
		1.4.3	Help Menu	7			
		1.4.4	Quit the Software	8			
2	Soft	ware Op	peration	8			
	2.1	File	Operation	8			
		2.1.1	New Patient Record	8			
		Note: T	his function is not applicable if using an SD card to access user data	8			
		2.1.2	Open Patient Files	15			
		2.1.3	Print and Print View	15			
	2.2	Usir	ng the Software with a Device Connected to the Computer	16			
		2.2.1	Download Data	16			
		2.2.2	User Information	18			
		2.2.3	Clock Synchronization	18			
		2.2.4	Registering a New User	19			
	2.3	Setu	p	20			
		2.3.1	Language	20			
		2.3.2	Log	21			
		2.3.3	Setup	21			
		2.3.4	Email	24			
3	Glos	ssary		26			

## **1** Introduction

## 1.1 Function

The RESmart<sup>®</sup> nPAP Data Statistics Software is designed to be used with a RESmart<sup>®</sup> device. It is intended to download, save, display, and analyze device data and print reports.

Data can be organized into graphs with this software, making it easier and more efficient to analyze patient data.

### **1.2 Software Environment**

Item	Content
Software Language	Chinese, English, French, Russian, German, Italian, Polish, Portuguese, Spanish, Turkish
Operating System	Windows XP Windows 7 Windows 8

## **1.3 Software Installation**

#### 1.3.1 Install Software

Insert the software CD to your disk drive. The Software Installation Wizard will automatically start (figure1-1) and guide you through the installation process.



Figure 1-1

You will see intallation prompts on the left side of the screen. On the right side, you will find a list of software available for installation: RESmart<sup>®</sup> nPAP Data Statistics Software, RESmart<sup>®</sup> iCode, RESmart<sup>®</sup> Control Panel, BMC Tools for Upgrade, and the USB driver.

Select "RESmart<sup>®</sup>" to begin installation of the RESmart<sup>®</sup> nPAP Data Statistics Software (figure 1-2), and follow the on-screen instructions.

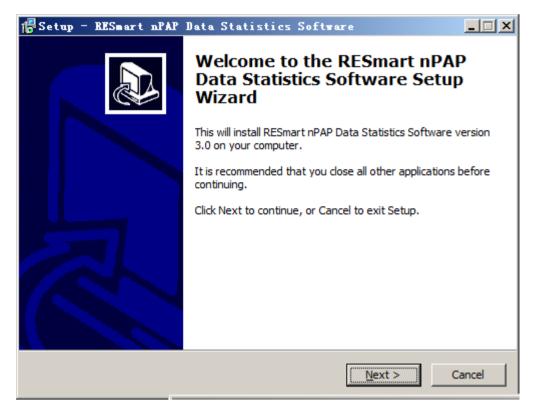


Figure 1-2

Click	Finish	to	quit	the	installer.	The	icon



will appear on the

desktop. Double-click the shortcut icon to run RESmart® nPAP Data Statistics Software.

#### 1.3.2 Install the USB Driver

#### Note: If using an SD card to collect user data, you should skip this section.

Select "Driver for USB" to initiate the USB driver installer. The installation wizard will appear (figure 1-3) and walk you through the installation process with a series of prompts.



Figure 1-2

Once you have completed installation by clicking "Finish" on the installation wizard screen, connect the device to your computer with the USB cable. Right-click the shortcut



icon My Computer on the desktop and select "properties." Click "Device Manager" on the



"Hardware" page to find the

Serial Bus controllers." If <sup>USB-Serial Controller</sup> appears, it suggests the USB driver failed to install properly, and you should reinstall.

## **1.4 Introduction to the User Interface**

#### 1.4.1 Shortcut Operation

#### Note: Not applicable if using an SD card to collect user data.

Connect the device to the computer with the USB cable, and open the software. Shortcut icons allow you to download and save data quickly and easily (figure 1-4). Simply click the "download data" icon to download and save the patient's data.



Figure 1-3

#### 1.4.2 Toolbar

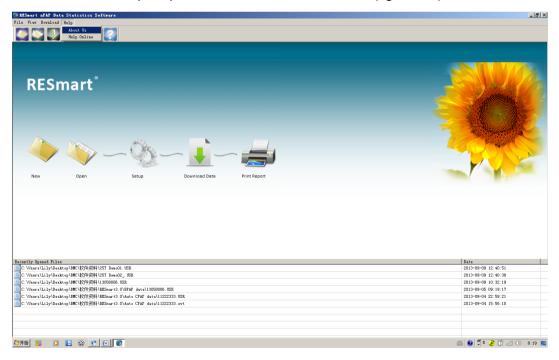
On the toolbar (figure 1-5), you will find icons for (from left to right): new patient folder, open patient folder, data download, system settings, email report, and online help functions.



Figure 1-4

#### 1.4.3 Help Menu

In order to find software version information, select "help" from the toolbar at the top of the screen. In the help drop-down menu, select "About Us" (figure 1-6).



#### Figure 1-5

To access the help feature, select "Help Online" from the "Help" menu in the toolbar. You will be redirected to BMC Medical's main help page, where you can search the full range of help information (figure 1-7).





#### 1.4.4 Quit the Software

To exit the software, click "Exit" under the "File" tab in the toolbar. Alternatively, you can click the "x" icon in the upper right corner.

## 2 Software Operation

### 2.1 File Operation

#### 2.1.1 New Patient Record

#### Note: This function is not applicable if using an SD card to access user data.

Select "new patient archive" from the "File" drop-down menu (figure 2-1).





A dialogue will pop up, asking whether you wish to create a new patient archive (figure 2-2). Select "yes" to create a new patient record.



Figure 2-2

Enter the new patient's information in the appropriate fields (figure 2-3), and select "OK" to access the patient's user data.

Name	Li Hong	* Weight (kg)	52
Gender	Female	Phone	010-63775681
Birthday (YYYY-MM-DI	1981/05/06	Height (cm)	168
Address			2
lote			4
			8

Figure 2-3

A pop-up window will display the number of records available (figure 2-4). Select "Ok" to prompt the record download window.



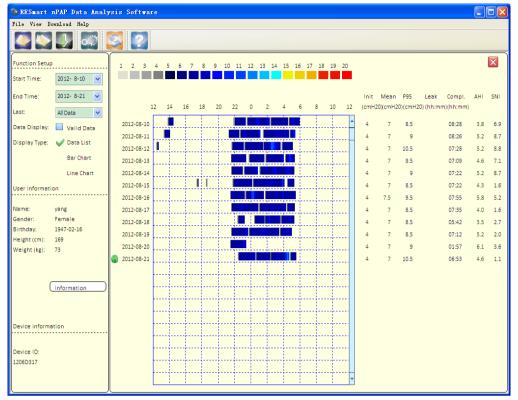


Select "Ok" to download the available records (figure 2-5).

Raw Dat	ta 🛛 🛛
٩	Do you want to download the raw data?
	Yes No

Figure 2-5

A bridge has been built between your computer and the device. Patient information is now registered in the device and saved in your computer. The following main interface displaying patient data is now available (figure 2-6).



RESmart<sup>®</sup> nPAP Data Statistics Software User Manual

Figure 2-6

On the left side of the screen you will find:

Start Time: Select the start time of the displayed record End Time: Select the end time of the displayed record Last: Display the data recorded from last day to recent days Data Display: display valid data

Display Type: You can display data in four ways, including data list, bar chart, line chart, and raw statistics. Click any point on the corresponding graph, and corresponding data will be shown on the right.

Right-click any point on the graph (figure 2-7) to open a drop-down menu. "Select All" displays all treatment data in the chart. "Clear All" clears all treatment data. "List," "Bar Chart," and "Statistics" are alternative ways to choose the display types shown on the left. "P95, Mean Tendency Chart" is the same as "Line Chart." "Delete" eliminates the deleted data from the right of chart. "Restore" restores anew the deleted data to the chart.

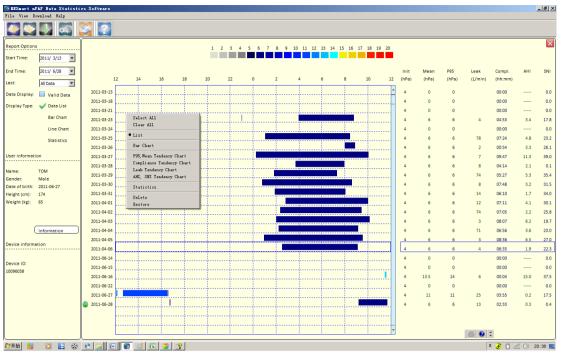


Figure 2-7

On the left you will also find User Information, designed to display patient information. Click "detailed information" for more detailed patient information.

Device Information displays basic device information.

On the right side of the screen, you will find the Pressure Diagram. As the key above the diagram shows, pressure values are expressed by a color gradiant. Each color is pegged to a numerical value where 1 = 1 cmH2O (figure 2-8).

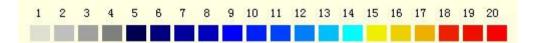


Figure 2-8

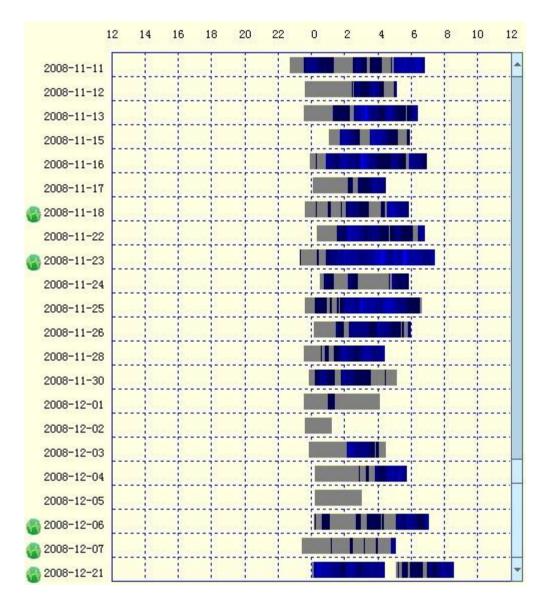
At the far right of the screen you will find the data list (figure 2-9). It includes the parameters of initial pressure, mean pressure, therapy pressure, leak, use time, AHI, and SNI.

Init (cmH2O)	Mean (cmH2O)	P95 (cmH20)	Leak (L/min)	Compl. (hh:mm)	AHI	SNI
4	6.5	8.5		05:14	0.1	8.9
4	6	8		03:07	0.0	11.9
4	6	8		06:02	0.0	7.5
4	5.5	7.5		06:43	0.7	1.1
4	5.5	7.5		06:25	1.8	2.1
4	5.5	7.5		08:03	0.7	5.7
4	4.5	6.5		05:30	0.5	3.8
4	5.5	8		06:52	1.0	2.7
4	5.5	7.5		04:50	0.8	4.1
4	6	8		07:00	0.5	8.6
4	5	7		04:20	0.6	2.4
4	5	7.5		06:15	0.4	1.3
4	5.5	7.5		06:30	0.7	6.5
4	6.5	8.5		08:06	0.7	1.4
4	5	6		05:20	0.3	5.5
4	6	8		07:00	0.4	5.7
4	5.5	6.5		05:47	0.6	2.0
4	5.5	7.5		04:48	0.8	5.5
4	5	6.5		05:17	0.7	1.3
4	4.5	5		04:31	0.6	1.9
4	4	4		01:35	1.2	0.3
4	5	7.5		04:35	0.4	4.3

Figure 2-9

On the pressure diagram, you will find the dates on the left (figure 2-10). The symbol indicates that the waveform of raw data is available for that date.

Note: Raw waveform is available only before midnight of the following day. At that time the data is erased when the device is turned on.





Statistical trend charts (figure 2-11) are accessible by double-clicking any point recorded on the pressure diagram. Available statistical trend charts include:

- Pressure (cmH2O) trend chart
- Leak level trend chart
- Apnea/hypopnea trend chart
- Flow level trend chart
- Tidal volume (mL)

#### Respiration Rate (BPM)

Zoom:       Yessue: 20/2         Side the Modes       100 <t< th=""><th>N 🛄 🗠</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	N 🛄 🗠									
iiide the Mouse       iiide the Mouse       iiide the Mouse         jare       iiide the Mouse       iiide the Mouse       iiide the Mouse         jare       iiide the Mouse       iiide the Mouse       iiide the Mouse         jare       iiide the Mouse       iiide the Mouse       iiide the Mouse         jare       iiide the Mouse       iiide the Mouse       iiide the Mouse         jare       iiide the Mouse       iiide the Mouse       iiide the Mouse         jare       iiide the Mouse       iiide the Mouse       iiide the Mouse         jare       iiide the Mouse       iiide the Mouse       iiide the Mouse         jare       iiide the Mouse       iiide the Mouse       iiide the Mouse         jare       iiide Mouse	Q	12:00	13:00	EPAP:14:00	IPAP:	16:00	17:00	18:00	Time:20:00 Pressure:1 19:00	0 <b>/12</b> 20:00
Date 1200-06-01 Thursday Leek (Umin) 1200 1300 1400 1500 1600 1700 1800 1900 1200 1000 1300 1400 1500 1600 1700 1800 1900 1200 1000 120130 1400 1500 1600 1700 1800 1900 1200 120030 120130 1600 1700 1800 1900 1200 120030 120130 120130 120230 120230 12030 12030 1200 120030 120130 120130 120230 120230 12030 12030 1200 1120030 120030 120130 120230 120230 12030 12030 1200 1120030 120030 120130 120230 120230 12030 12030 1200 1120030 120030 120130 120230 120230 12030 120130 120230 12030 1200 1120030 1400 1500 1500 1700 1800 100 1700 1800 1000 1200 1120030 120030 120130 120230 120230 120130 120230 12030 12030 1200 1120030 120030 120130 120230 120230 120130 120130 120230 12030 12030 1200 11200 1120130 1200 120130 120230 120130 1	Mouse	15								F
Lesk (//min)         13.00         14.00         15.00         16.00         17.00         18.00         19.00           100         0	11 Thursday	5								
and monitoring       import       impor		Leak (L/min)	18-00	14:00	15-00	16:00	17-00	18-00	Leak:0	20:00
te of oliving 2013-06-15 ight (m: 186 ight (m: 186 ight (m: 186 ight (m: 186 isher Vessure (nPa): 130000120030120030120100112013012020012013012030120300120330 120000120030120030120130120200120301203	lijie	160	15.00	14.00	15.00	10.00		10.00	15.00	
Hight (rg): 123       123         av Parameter II:       12 00         12 0000       13:00         hill       12:00:00         12 00:00       12:00:30         12:00:00       12:00:30         12:00:00       12:00:30         12:00:00       12:00:30         12:00:00       12:00:30         12:00:00       12:00:30         12:00:00       12:00:30         12:00:00       12:00:30         12:00:00       12:00:30         12:00:00       12:00:30         12:00:00       12:00:30         12:00:00       12:00:30         12:00:00       12:00:30         12:00:00       12:00:30         12:00:00       12:00:30         12:00:00       12:00:30         12:00:00       12:00:30         12:00       12:00:30         12:00       12:00:30         12:00       12:00         12:00       12:00         12:00       12:00         12:00       12:00         12:00       12:00         12:00       12:00         12:00       12:00         12:00       12:00	pirth: 2013-08-15	40								
ow Parameter       12.02       13.00       14.00       15.00       16.00       17.00       18.00       15.00         it::       1.8       1.8       1.8       1.9       1.2       1.9       1.9	kg): 123									
wice Setup Information 18 No: 18 Descure (InPa):         Flow 12 00 00         12 00 30         12 01 30         12 02 30         12 02 30         12 03 30           1 Tidal Volume (mi) 1 2000         13 00         14 40         15 00         16 00         17 200         18 00         15 00		12:00	a (sec) A 13:00	pnea: H	15:00	16:00	17:00	18:00	19:00	20:00
No:         Flow         12:05:00         12:00:00         12:0		40								
Tissenso         Flow           12 00 00         12 00 30         12 01 00         12 02 10         12 02 20         12 02 30         12 03 30           14 Pressure (PA):         Image: State Sta		10 0								
Tidal Volume (mi) 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 Tidal Volume:	13058006		12:00:30	12:01:00	12:01:30	12:02:00	12:02:30	12:03:00	12:03:30	12:04:
Tidal Volume (mi)         13:00         14:00         15:00         16:00         17:00         18:00         19:00           2000         1000         1000         1000         1000         1000         1000										
12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00		•								
2000		Tidal Volume (m	1)						Tidal Volu	ne:
		000	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00
1500 1000 500	1	000								

Figure 2-11

On the left side of the statistical trend charts, you will find a zoom feature, the date, the patient's information, the parameter being charted, and the basic device information.

You may read the synchronous data by moving the cursor over any point in the trend chart.

The scroll bar at the bottom of the screen allows you to view detailed trend data over long periods of times.

#### 2.1.2 Open Patient Files

Select "Open patient archive" from the "File" menu at the top left corner of the screen. Select the required patient file from the dialog box that opens and click "Open."

Click in the top right corner to return to home screen at any time.

#### 2.1.3 Print and Print View

In the "File" drop-down menu at the top left corner of the screen, you will find print setup, print preview, and print features.

You can also print the statistical trend waveform charts. To do so, select "Waveform Print

Setup" in the "File" drop-down menu at the top left corner of the screen. In the dialog box that appears, select the waveform charts you wish to print and select "OK" (figure 2-12).

Setting <b>T</b> aveView		×
CTX10096058		
✓ Pressure	✓ Leak	
Apnea/Hypopnea	Flow	
	OK Cancel	_

Figure 2-12

## 2.2 Using the Software with a Device Connected to the

#### Computer

Note: This section is not applicable, if using an SD card to collect user data.

#### 2.2.1 Download Data

Note: Before beginning the download, confirm that "Automatic connection" is selected in "Settings."

Connect the device to the computer with the USB cable and turn the device on.

Download the patient data by either clicking "download data" in the "Download" menu or clicking the "download" shortcut directly.

A dialog box will pop up asking you to create a new patient archive. Follow the steps reviewed earlier in Section 2.1.1 for setting up a new patient file.

If this box does not appear, the software failed to match the device with the computer. Make sure the device is on and properly connected to the computer. If there still is no match, disconnect the device and reinstall the USB driver.

Once you have successfully set up the new patient file, the software will store the patient information in the device (figure 2-13).

Writing data in the device						
Writing data in the device32/435						

Figure 2-13

Once complete, you will see the prompt below (figure 2-14).



Figure 2-14

Click "OK" to access data from the device (Figure 2-15).

Updating Treat Records						
Updating Treat Records2/32						

Figure 2-15

A dialog box will appear telling you the total number of records available for download (figure 2-16).





Click "OK" to prompt the download window to appear (figure 2-17).



Figure 2-17

Click "Yes" to download the patient data. The pressure graph will appear when the download is complete (figure 2-18).

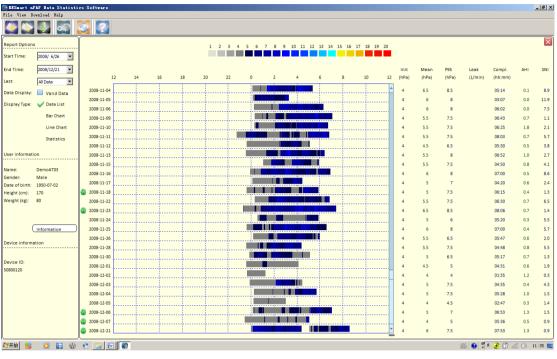


Figure 2-18

#### 2.2.2 User Information

Access user information in the "Download" menu at the top of the screen. Here, you can pull up dialog boxes containing "User Information" (patient information) and "Device time" (the date-time setting on the device).

#### 2.2.3 Clock Synchronization

#### Note: This function is not applicable if using SD card to collect user data.

This function is used to correct an incorrect time setting on a device. Select "Clock Synchronization" under the "Download" menu at the top of the screen. Synchronization is complete when the dialog box pictured in figure 2-19 appears. Click "OK" to return to the home screen.

Data Synchronization succeeded
ОК

Figure 2-19

#### 2.2.4 Registering a New User

#### Note: This section is not applicable if using SD card to collect user data.

Register a new patient by selecting "User Register" in the "Download" menu at the top of the screen. A dialog box (figure 2-20) will appear, allowing you to fill in or modify the patient's information. Click "Ok" when finished.

Lodifying (	Confirmation		
Name	Li Hong	* Weight (kg)	52
Gender	Female	Phone	010-63775681
Birthday (YYYY-MM-DD)	1981/05/06	Height (cm)	168
Address			^
			<u>~</u>
Note			
		Ok	Cancel

Figure 2-20

You will be prompted to confirm that you wish to make changes to the patient information (figure 2-21). Click "OK" to confirm.

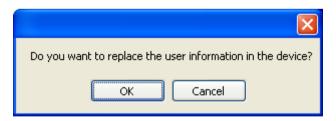


Figure 2-21

You will see a window displaying an information update progress bar (figure 2-22), followed by a confirmation dialog box (figure 2-23).



Figure 2-22

Click "OK" to complete the process.



Figure 2-23

## 2.3 Setup

#### 2.3.1 Language

In the "View" menu at the top of the screen, move your cursor over "Language" to view the language options and select English (figure 2-24).

	lownload Help																		
Langu Log	rage ▶ 中文 ▶ ✓ English																		
Setup		ий 🔜																	_
epo Ensil						1 2	3 4 5 6	7 8	9 10 11	12 13 14	15 16	17 18 19	20						
art Time:	2008/ Español																		
core rinne.	Polski																		
nd Time:	2008/ Português												Init	Mean	P95	Leak	Compl.	AHI	SN
ist:	Al De Türk		12 14	16	18	20	22 0	2	4	6	8	10	12 (hPa)	(hPa)	(hPa)	(L/min)	(hh:mm)		
ata Display;	Valid Data	2008-07-31											<b>^</b> 4	7	8.5		03:57	1.5	6.
		2008-08-01											4	6.5	8		03:22	0.8	8.
isplay Type:	🥪 Data List	2008-08-02											4	5.5	8		05:13	0.5	6.
	Bar Chart	2008-08-03											4	6	7.5		05:58	0.3	8.
	Line Chart	2008-08-04											4	6.5	8.5		06:52	2.1	3.
	Statistics	2008-08-05											4	6	7.5		04:01	1.2	3.
	ototistics	2008-08-07											4	5.5	7.5		03:56	0.5	3
er informat		2008-08-08											4	5.5	7.5		05:32	0.0	6
		2008-08-09											4	6	8		04:18	0.9	9
ame:	DemoAT03	2008-08-10											4	5.5	7.5		04:25	0.9	4
ender: ate of birth:	Male 1950-07-02	2008-08-11											4	5	6.5		05:43	0.6	3
eight (cm):	170	2008-08-12											4	4.5	5.5		02:24	0.4	3
eight (kg):	80	2008-08-13											4	4.5	6.5		04:35	0.6	1
		2008-08-14											4	6	7.5		03:04	0.9	8
		2008-08-15											4	6	8		05:10	0.3	7
1	Information	2008-08-16											4	5	6.5		04:46	0.6	3
		2008-08-17											4	5	7		03:09	0.9	2
evice inform		2008-08-18											4	5.5	7.5		05:50	0.8	4
		2008-08-19											4	5	6.5		03:48	0.2	4
vice ID:		2008-08-20											4	5.5	7.5		06:20	0.7	2
800120		2008-08-21											4	4.5	6		03:53	0.0	5
		2008-08-22											4	4.5	6		04:49	0.2	3
		2008-08-23											4	5	7.5		05:53	0.3	4
		2008-08-24											4	4.5	7		05:23	0.3	3
		2008-08-26											4	4.5	5.5		03:13	0.6	2
		2008-08-27											4	5.5	7.5		04:56	0.4	e
		2008-08-28											<b>v</b>	4	4		02:42	0.0	2

Figure 2-24

#### 2.3.2 Log

The software offers an operation log (figure 2-25). You can access the log in the "View" menu at the top of the screen. Search the log by entering parameters into the appropriate date fields and clicking "Search."

Log Search						×
Operation Date Start Date	<ul> <li>Operation Type</li> <li>End Date</li> </ul>	Unlimited	•	Search		
Operation Time	Operation Type		Operation	Content		
					Exit	

Figure 2-25

#### 2.3.3 Setup

In the "View" menu at the top of the screen, choose "Setup" to access the setup function. There are 6 setup modules provided: System Setup, File Parameter Setup, Parameter Display Setup, Custom Setup, Device Setup, and Waveform Setup.

System Setup (figure 2-26):

Sy	stem Setup				×
	System Setup - Serial Port		Y	Timeout	
	Baud Rate	115200	BPS	Custom Baud Rate	Auto Connect
					Ok Cancel



Serial Port: Serial number of system Baud rate: Rate of data transmitted Auto Connect: Auto Connect Method Time Out: Delayed time **File Parameters Setup** (figure 2-27): you can select the save location by clicking "Browse."

File Parameters Setup		×
Storage Path		
C: \Users\Lily\Documents\RESmart\Files\	Browse	
Note: The initial directory is where files are stored by default, do not change	Ok	

Figure 2-27

Parameter Display Setup (figure 2-28):

Parameter Display Setup	×
Hide Deleted Records Information O Hide Show	
	Ok

Figure 2-28

Select to hide or show deleted records.

#### Custom Function Setup (figure 2-29):

Custom Function Setup		×
Do you want to display scrolbars?		
<ul> <li>Display</li> </ul>	O Do not display	
Unit Conversion		
(in Pa)	C (cmH20)	
		Ok

Figure 2-29

Select to hide or display scrollbars, and select the conversion unit used in the software.

**Device setup** (figures 2-30 and 2-31): Here you can calibrate the treatment settings of the RESmart<sup>®</sup> device.

Dev	rice Setting				×
	Mode Setup General Set	up			_,
	Mode	S 💌	Init P/ Init EPAP	4.0	
	EPAP	10.0	IPAP	12.0	
	Manual P	0.0	Rise Time	1	
	I Sens.	5	E Sens.	5	
			ОК	Cancel	

Note: This feature is compatible only with devices with SD card capability.

Figure 2-30

RESmart <sup>®</sup> nPAP Da	ta Statistics	Software	User	Manual
------------------------------	---------------	----------	------	--------

Mode Setup General			
Ramp	0	Heater	1
Altitude	1	RESlex	2
Auto On	Enable	Auto Off	Enable
Delay Off	Enable	iCode	Enable
Unit	hPa 💌	BackLight	ON 💌
Leak Alert	Enable		

Figure 2-31

Waveform Setup (figure 2-32):

SettingTaveView		×
CTX50800120		
Pressure	🔽 Leak	
Apnea/Hypopnea	Flow	
	ОК	Cancel

Figure 2-32

Calibrate which waveform charts display.

#### 2.3.4 Email

In the "View" menu at the top of the screen, select "Email" and "Send Emails" to open the email interface (figure 2-33).

Set the default mail cli	ent 2
Mail client	SM
O System default	RESmart mail client
□ Set as Default	
	OK Cancel

Figure 2-33

By choosing system default, your email will be sent by operating system default mailbox. If you select RESmart mail client, your email will be sent by the RESmart mailbox (figure 2-34).

Email		×
Config Name		
Username		
Password		
Host	smtp.bmc-medical.com   Port 25	Save
То	·	
Subject		
Body		<u>^</u>
Attachment		
Attachment		
		Add
1	Send	

Figure 2-34

Set the parameters of the RESmart<sup>®</sup> mailbox by entering the username (the sender's email address), password (the corresponding password), host (the email server address),

and port (will match the email server). Click "Save" or, alternatively, it will save after successfully sending an e-mail. Add attachment files by clicking "Add".

## 3 Glossary

Terms	Explanation
Snore	Snore is the sound resulting from obstructed air movement, created when
	a breath of air passes through a narrowed airway.
Sleep apnea	Apnea during sleep in which airflow decreases by 90% the normal level for
	at least 10 seconds.
Hypopnea	Airflow decreases by more than 50%, accompanied by an associated
	decrease in oxygen saturation by more than 4%.
Obstructive Sleep Apnea	A condition in which an adult patient experiences at least 30 apnea events
Syndrome (OSA)	of a minimum 10 second interval between breaths during a 7 hour period
	of sleep. Or, a condition in which a patient has AHI > 5.
Apnea Index (AI)	The average number of apnea events per hour, calculated by dividing the
	number of events during the sleep period by the number of hours of sleep.
Hypopnea index (HI)	The average number of hypopnea events per hour, calculated by dividing
	the number of hypopnea events during the sleep period by the number of
	hours of sleep.
Apnea-Hypopnea Index	The average number of apnea-hypopnea events per hour, calculated by
(AHI)	dividing the number of apnea-hypopnea events during the sleep period by
	the number of hours of sleep.
Snore Index (SI)	The average number of snores per hour, calculated by dividing the number
	of snores during the sleep period by the number of hours of sleep.
Continuous Positive Airway	Therapy to maintain an open airway for OSA patients via the delivery of
Pressure	continuous positive pressure from a flow generator to the patient's airway
	through tubing and a mask.