

Asthma Analyzer⁺ MacOS

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Software User Manual

Document No: UMAAPMAC13201EN

Rev. Date: 2025-01-16

Revision: 1

Content

1	Introduction	3
1.1	APP Specification	3
1.2	Abbreviations and Terms	3
1.3	Installation	3
1.4	Uninstallation	3
2	User Interface of AA+	4
2.1	General Buttons	5
2.2	Overview Tab	6
2.3	Data Tab	7
2.3.1	Readings Page	7
2.3.2	PEF Trend Chart Page	8
2.3.3	FEV1 Trend Chart Page	9
2.4	Profile Tab	10
2.5	Settings Tab	11
3	Scenarios of AA+	12
3.1	Region Setting	12
3.2	Synchronize the Date and Time	13
3.3	Create a User Profile	14
3.4	Download Data from the Device	16
3.5	Customize the Traffic Light Settings	18
3.6	Select Another User Profile	20
3.7	Export CSV/ PDF Report.....	21
3.8	Import/ Export Data	22
3.8.1	Import Data	23
3.8.2	Export Data	23
4	User Manual	25

1 Introduction

Asthma Analyzer+ is the asthma data collection APP which is developed by Microlife corporation. It can transfer data from the Peak Flow meter and customize the traffic light settings.

1.1 APP Specification

Support OS	MacOS 13~ 15
Languages	English
Report Type	CSV, PDF
Compatible Devices	PF 200 / PF100
Communication Interface	USB

1.2 Abbreviations and Terms

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

#	Abbreviations	Interpretations
1	PEF	Peak Expiratory Flow, unit: liter/ minute
2	FEV1	Forced expiratory volume over 1 second; unit: liter

1.3 Installation

Select App Store from the Apple menu and the Mac App Store will open. Search the “Asthma Analyzer+” to find the APP. Press install and then the APP will be installed on your MacBook or iMac.

1.4 Uninstallation

Use the Finder to delete apps.
Find the APP and drag it to the Trash.

2 User Interface of AA+

There are three general buttons “A” and four main tabs “B” in the AA+ APP. They are described as below:

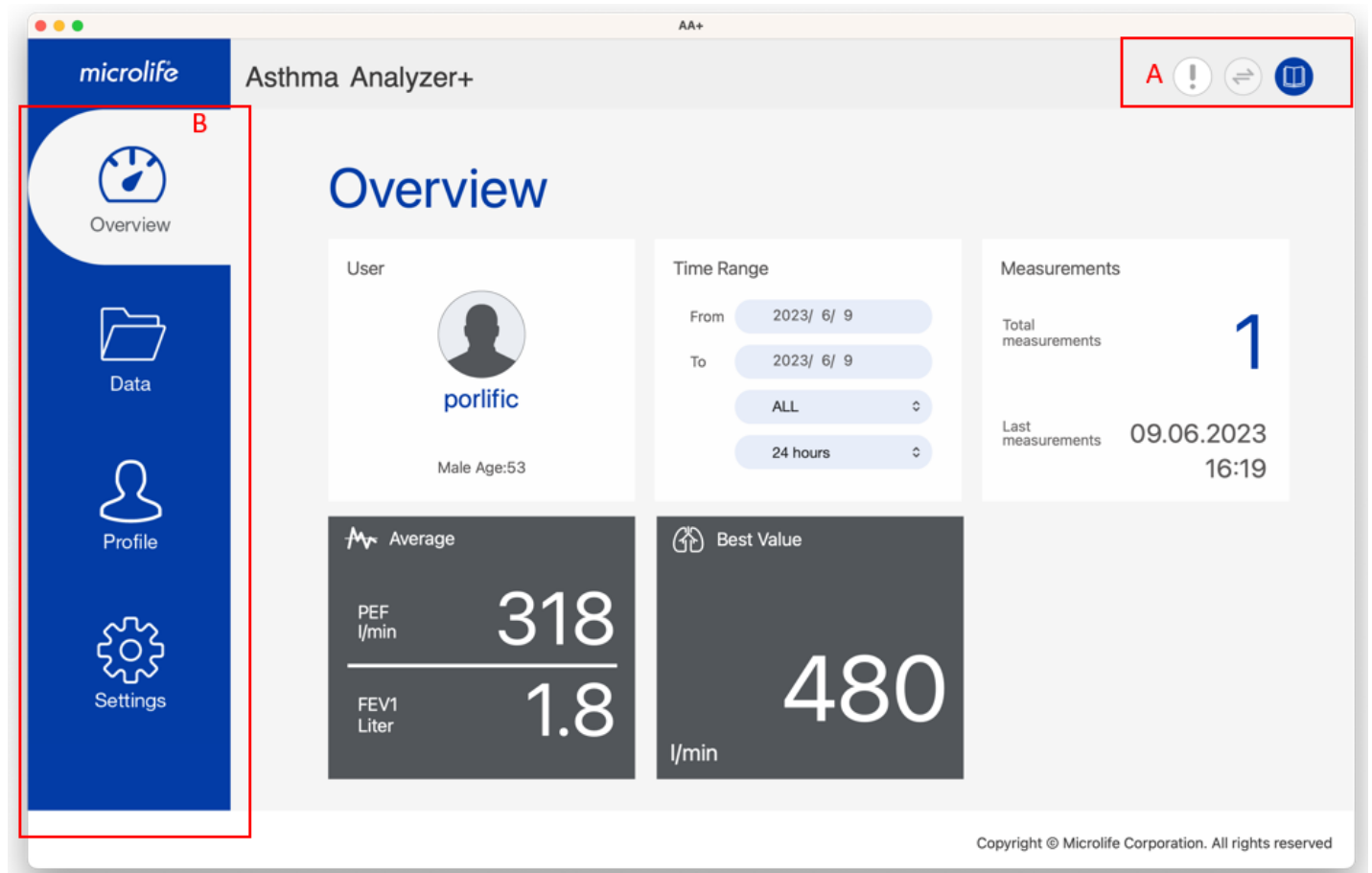


Fig- 1

■ Area A: General Buttons



■ Area B: Tabs

- Overview Tab
- Data Tab
- Profile Tab
- Settings Tab

2.1 General Buttons

There are three buttons on the right upper side and are introduced as below:

Button	Function
Software Version Button. 	When the button is pressed, the software version is shown as below. 
Data Download Button 	When the device is not connected, this button is disabled as below  . When the device is connected, this button will change to be enabled as below  . When the button is pressed, the data of the device will be transferred to the APP.
User Manual Button 	When the button is pressed, it will direct to the user manual download page of the Microlife support website. Note: To connect to the Microlife support website, the internet is needed.

2.2 Overview Tab

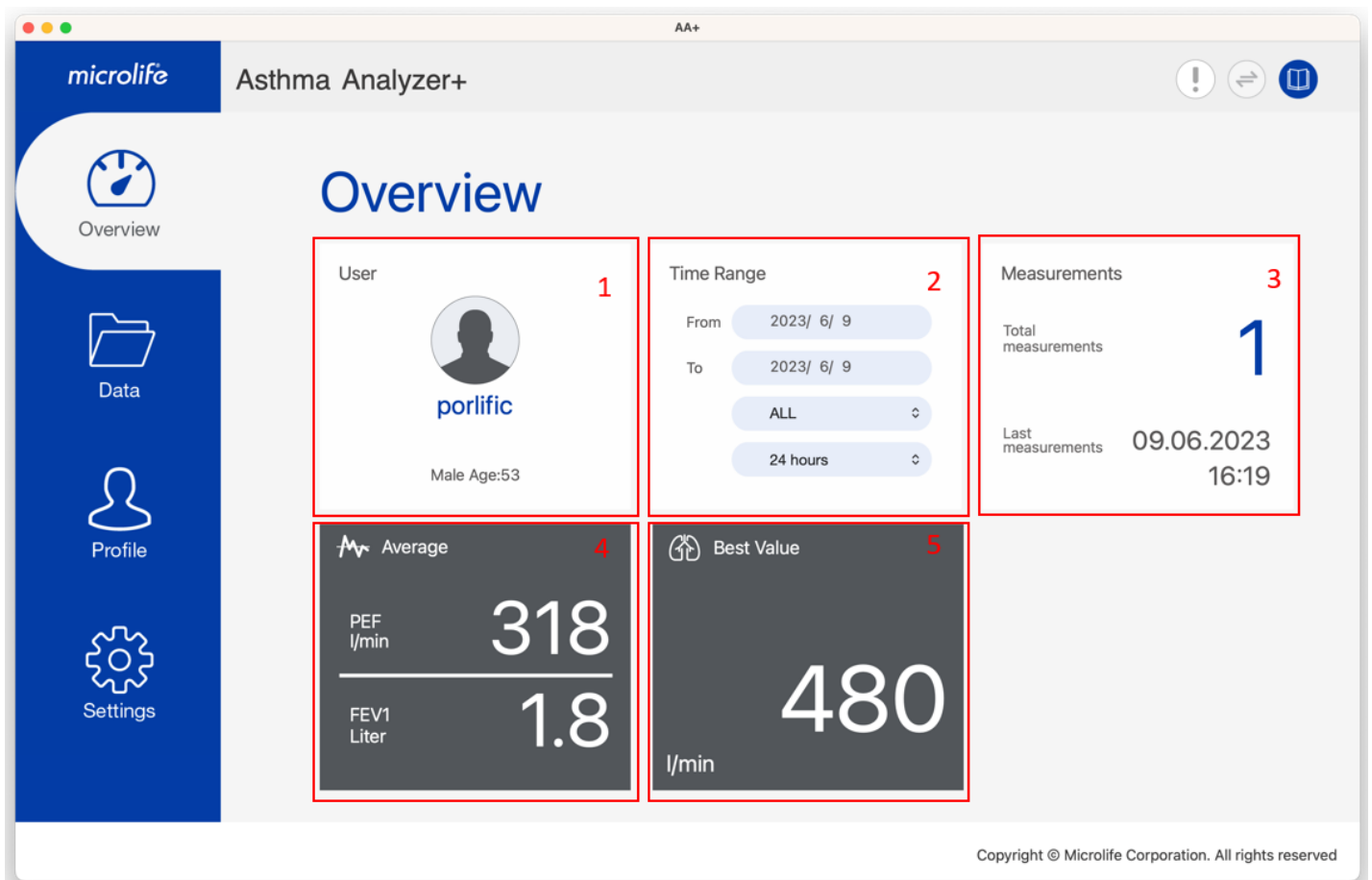


Fig- 2

The below information will be found in the overview tab.

(1)Area 1: User basic information area

The username, gender, age can be found at this area.

(2)Area2: Time Range area

This area shows the period of the measurements. Users can customize the day period and time period to filter the readings to be displayed in the overview tab.

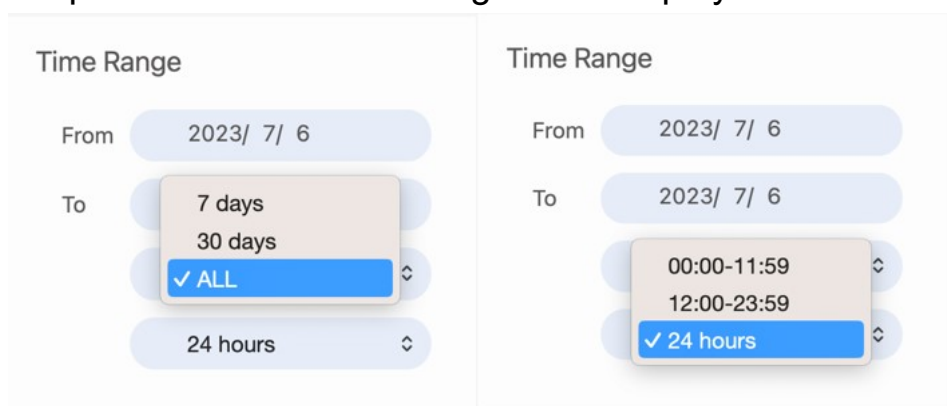


Fig- 3

(3) Area3: Measurements area

This area presents the total number of measurements and the latest measurement time of the selected time range.

(4)Area4: Peak Flow Value Average Area

This area displays the average of PEF and FEV1.

(5)Area5: Best Value Area

This area shows the best value setting of the APP.

Note:

1. The APP uses maximum PEF value as the default Best Value when the APP is executed first time.
2. If users had ever programed the best value to the device, the best value will be changed as the best value setting.

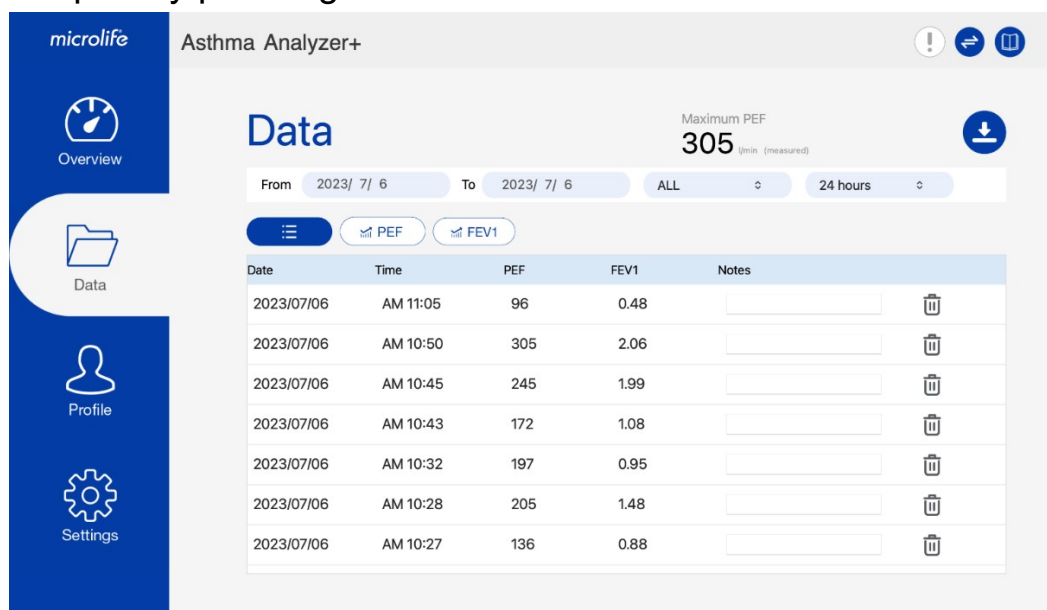
2.3 Data Tab

Users can review the readings, the corresponding PEV / FEV1 trend chart or export the report at Data tab. In addition, there are three sub- pages in this tab. These are described as follows:

2.3.1 Readings Page

This page is the default page shown in the data tab. Users can also press the

 button to switch to this page as below. In addition, user can also export the CSV or PDF report by pressing the  button.



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Fig- 4
7

Note:

Only the measurement data within the selected date & time range will be displayed in the list view.

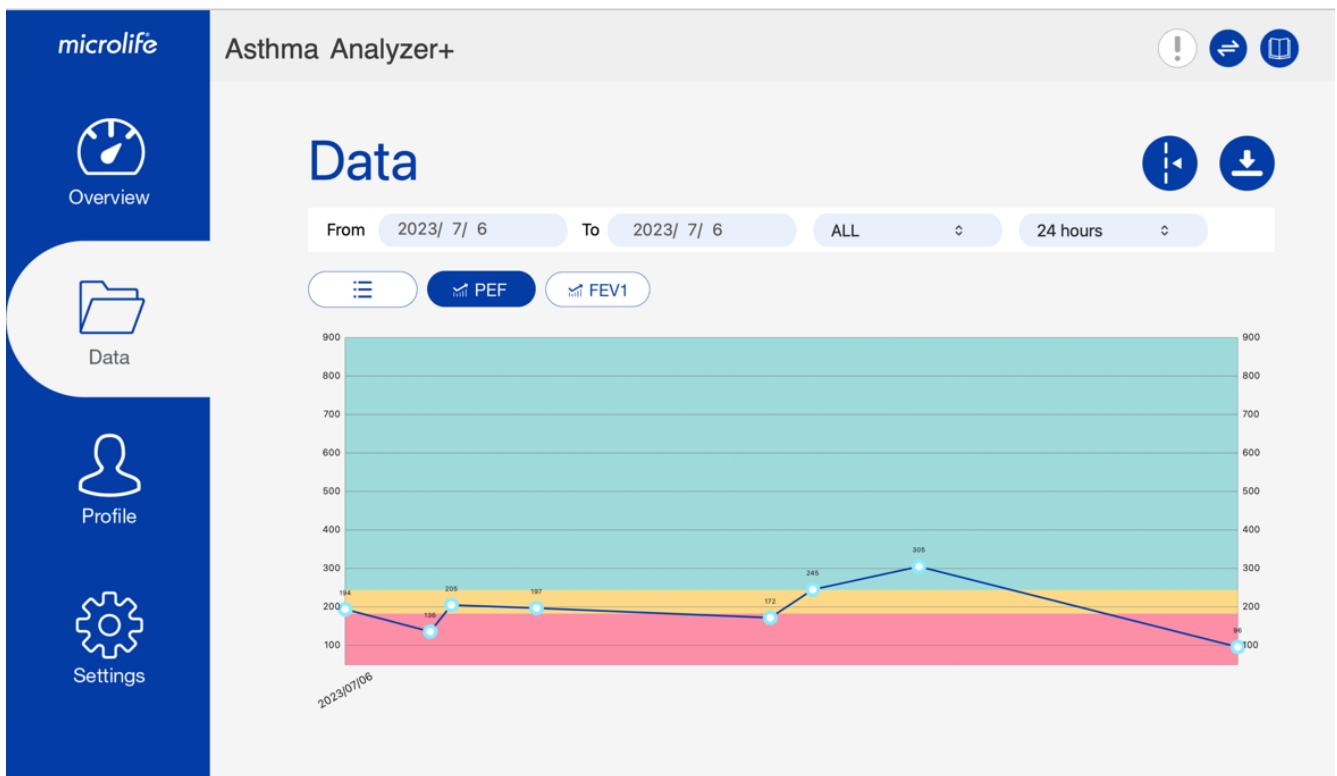
On this page, users can create a comment or edit the comment under the “Notes” column. If users want to delete the reading, they can press  button to delete it. Once the button is pressed, the message as below will be shown.



Fig- 5

2.3.2 PEF Trend Chart Page

Users can press the  button to switch to this page to review the PEF trend chart as below.

Fig- 6
8

There are three colors in the PEF trend chart. The meaning of traffic light indicator colors is explained below.

(1) Green Zone : OK

If your measurement is in the green zone, your condition appears to be under control. Continue your treatment plan.

(2) Yellow Zone : Caution

If your measurement is in the yellow zone, measure more frequently and follow your treatment plan.

(3) Red Zone : Danger

If your measurement is in the red zone, your condition is serious. Act as discussed with your physician or seek emergency medical treatment.

On this page, when the device is connected, users could press the  button to customize the traffic light settings.

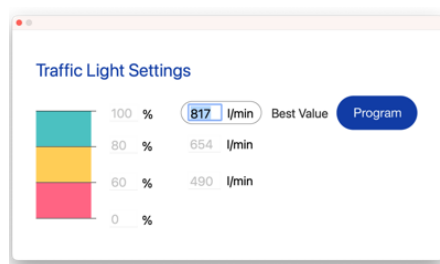
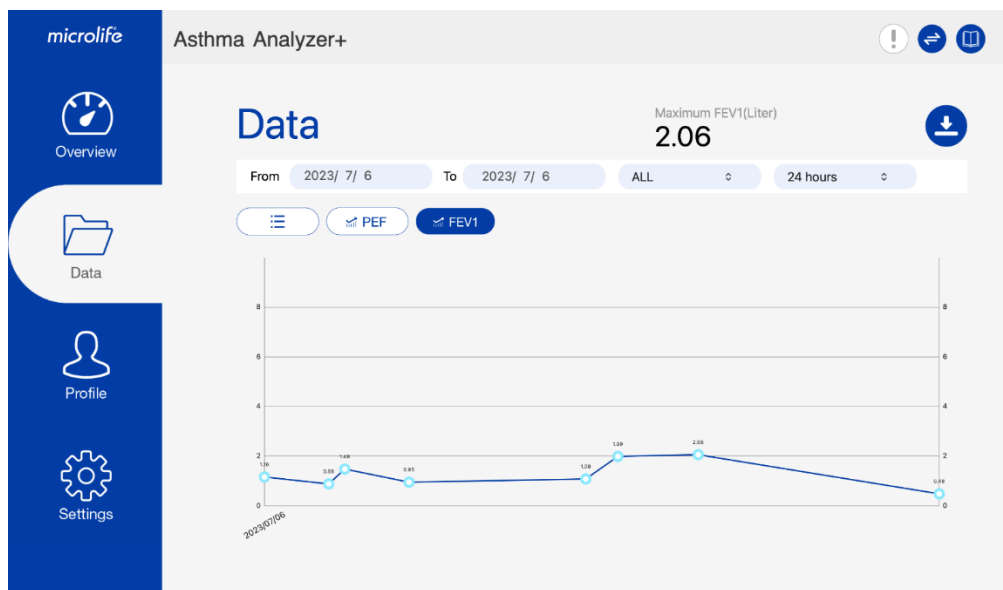


Fig- 7

2.3.3 FEV1 Trend Chart Page



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Fig- 8

2.4 Profile Tab

Users need to create their user profile at the profile tab when using the APP for the first time.

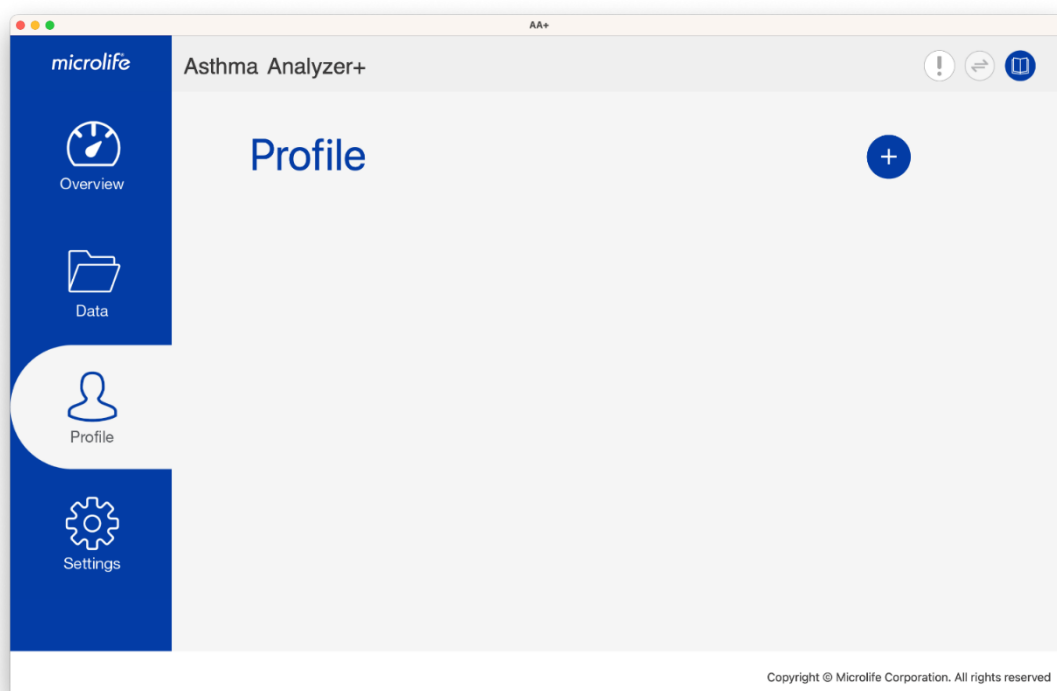
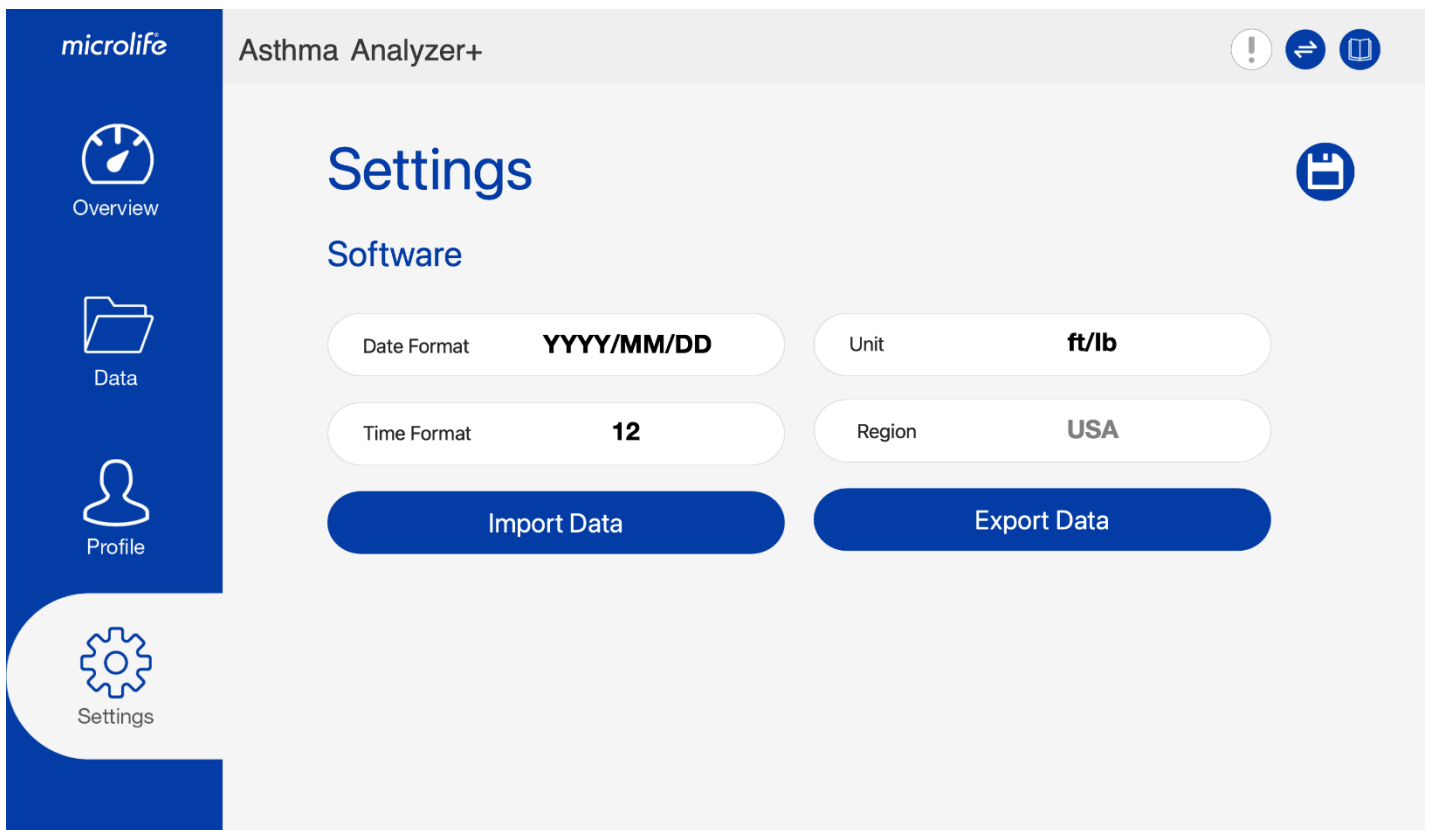


Fig- 9

Note: Refer to section 3.3 for details about creating a user profile.

2.5 Settings Tab



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Fig- 10

The below fields can be configured at the Settings tab:

(1) Unit 、 (2) Date Format 、 (3) Time Format

Users can also “Import Data” or “Export Data” at the Settings tab.

3 Scenarios of AA+

3.1 Region Setting

Step1: Users have to select the region when the program is executed first time. If you are located in the USA and using Microlife peak flow meter available in the USA, please select “USA”; if you are located in countries other than USA and using Microlife peak flow meter available in countries other than USA, please select “Others”.

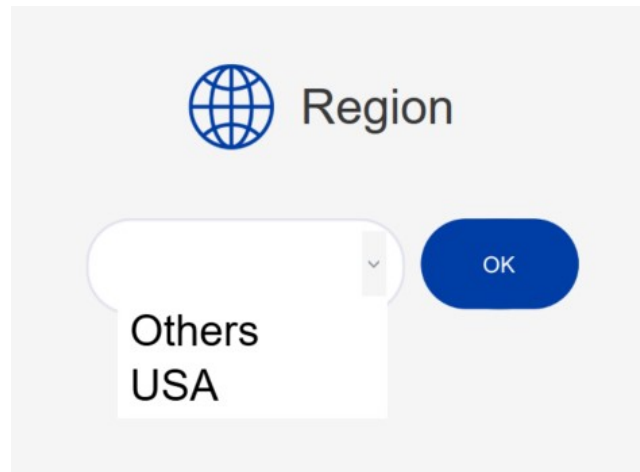


Fig- 11

Step2: When the region setting is done, the profile page will be shown.

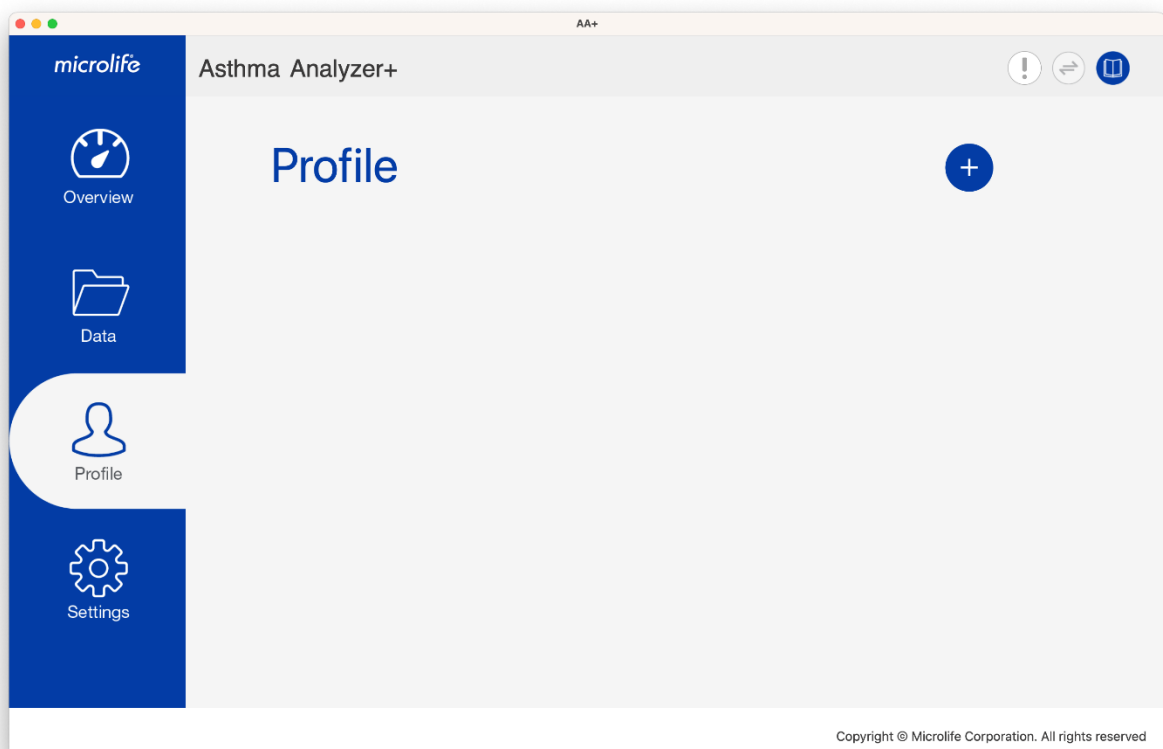


Fig- 12

3.2 Synchronize the Date and Time

Before using the device, users need to set the date and time of the device first. The easiest way to set the date and time is users can synchronize it via APP.

Step1: Connect the device to the APP:

Connect the device to the computer. Once the device connection is ready, the



button will be enabled.

Step2: Press  button, APP will check the date & time between the APP and device first. If the date and time conflicts, the below dialog will be displayed.

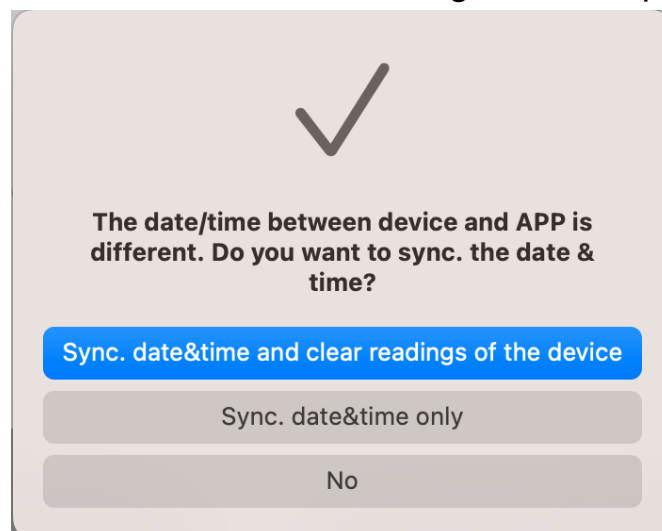


Fig- 13

3.3 Create a User Profile

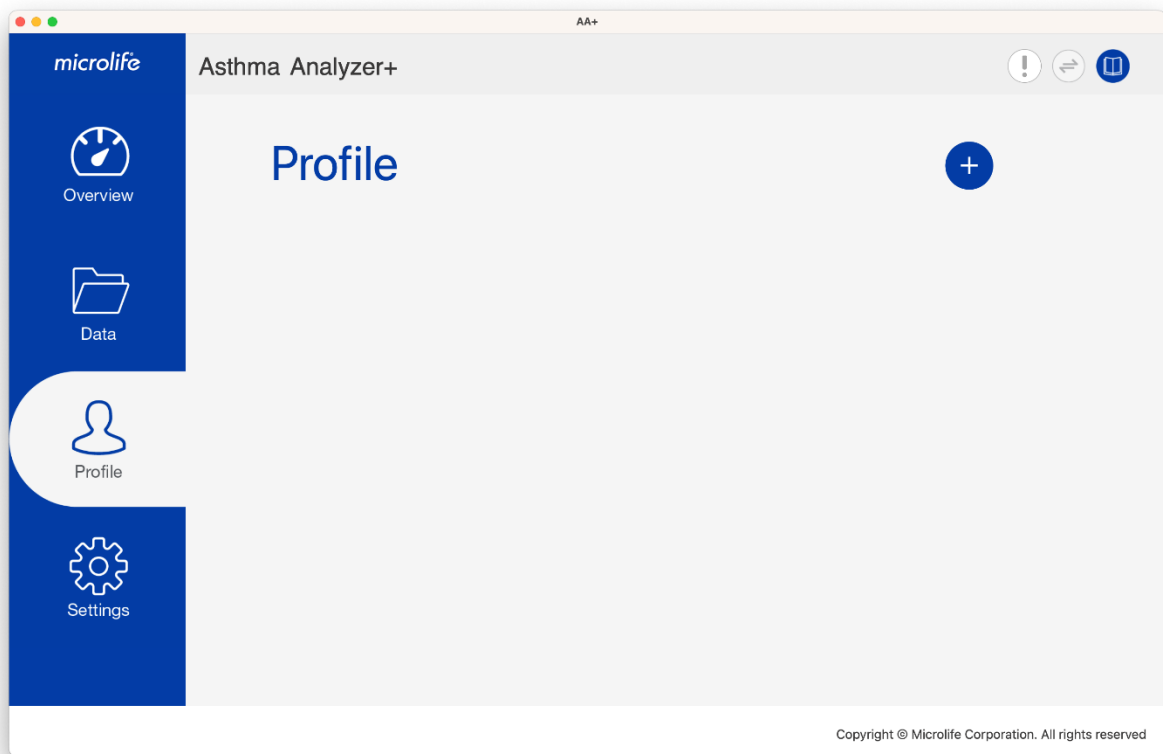


Fig- 14

Step1: Press the  button to create the user profile. And then the below dialog will be displayed.

Note: Users have to create the user profile before they start to transfer the data from the device.

Step2: Input the Email and press the “OK” button to save.

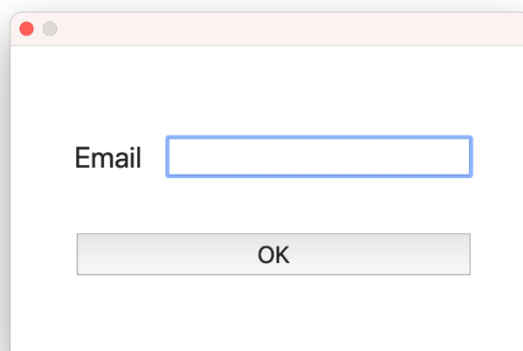


Fig- 15

Step3: Then the below page will be displayed. User can input the basic information at this page.

The screenshot displays the 'Profile' page of the Asthma Analyzer+ application on a MacOS. The interface features a blue sidebar on the left with icons for 'Overview', 'Data', 'Profile', and 'Settings'. The main content area is titled 'Profile' and contains several input fields for user information. The fields are as follows:

Field	Value
Email	Default@gmail.com
Name	Default Name
Gender	Male
Date of birth	1990/ 2/21
Height	160 cm
Weight	60.0 kg

In the top right corner of the main area, there are three circular buttons: a plus sign (+), a person icon, and a document icon. The document icon is highlighted, indicating it is the button to press to save the profile. The footer of the application window states: 'Copyright © Microlife Corporation. All rights reserved'.

Fig- 16

Step4: Press the  button to save the user profile.

Note: AA+ allows multi-users usage. Users can repeat step1 to step6 to create another user profile.

3.4 Download Data from the Device

Step1: Connect the device to the computer. Once the device connection is ready, the  button will be enabled. Users can press this button at any tab to download the readings.

Before downloading the data, APP will check the date & time between the APP and device, if the date and time conflicts, the below dialog will be displayed. Users need to synchronize the date and time first.

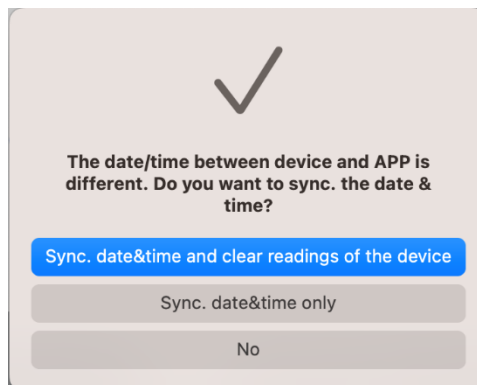


Fig-17

Step2: When  the button is pressed, the message box as below will be shown. Users can select which user profile to be transferred.

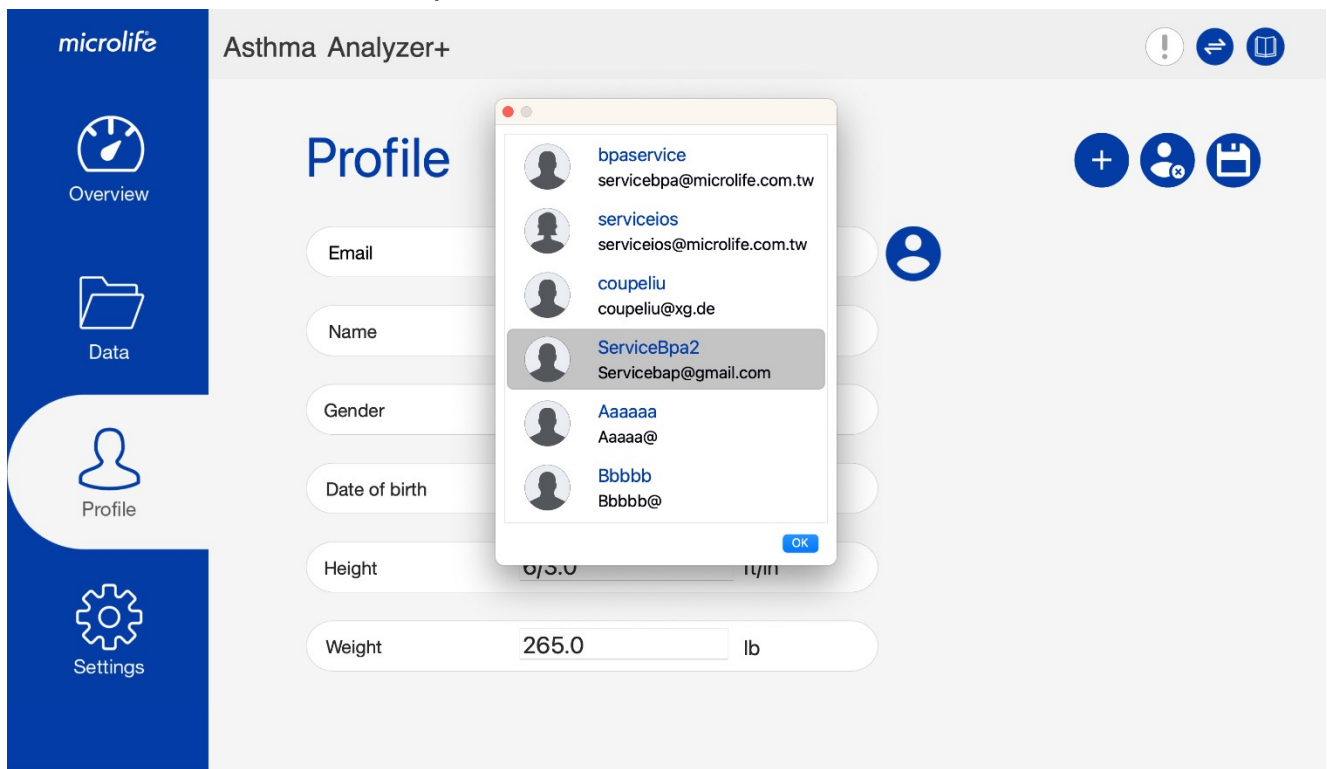


Fig-18

Note:

(1) If there is only one user profile created, only one user profile is displayed. If there are multiple user profiles created, all of the user profiles will be shown.

(2) Always connect the device to the PC directly to ensure correct connection for data transfer.

Step3: Select a user profile and then press the “ok” to download data from the device.

Step4: When the data download is done, the dialog will be displayed. Press the “OK” button and then users can start to review their latest readings at the readings page of Data Tab.

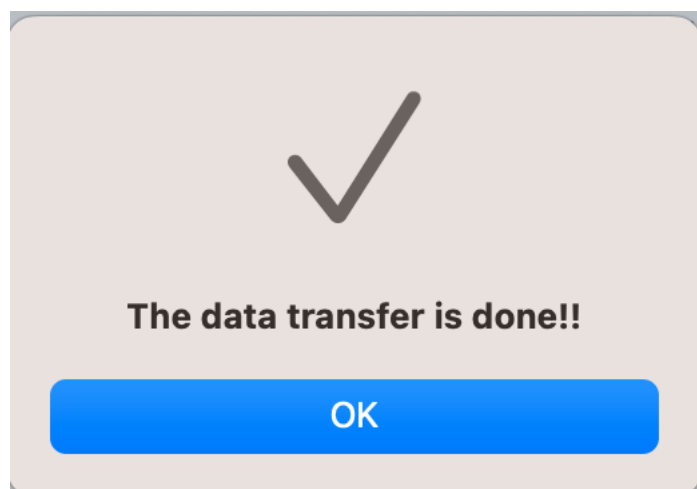


Fig-19

Step5:

If the maximum PEF value transferred from the device is larger than the current best value of APP, App will update the best value as the retrieved maximum PEF value and then clear the data of the device automatically.

Note:

If users had ever customized the traffic light settings, the message box as below will be shown to confirm with users. If the “Yes” button is pressed, the traffic light settings of the device will be modified and then the memory of the device will be cleared. If the “No” button is pressed, the traffic light settings will not be changed. But the memory of the device will still be cleared.

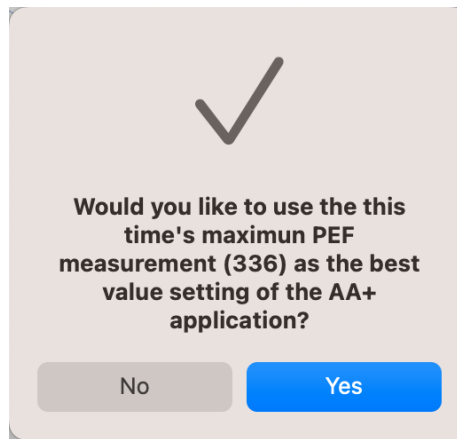


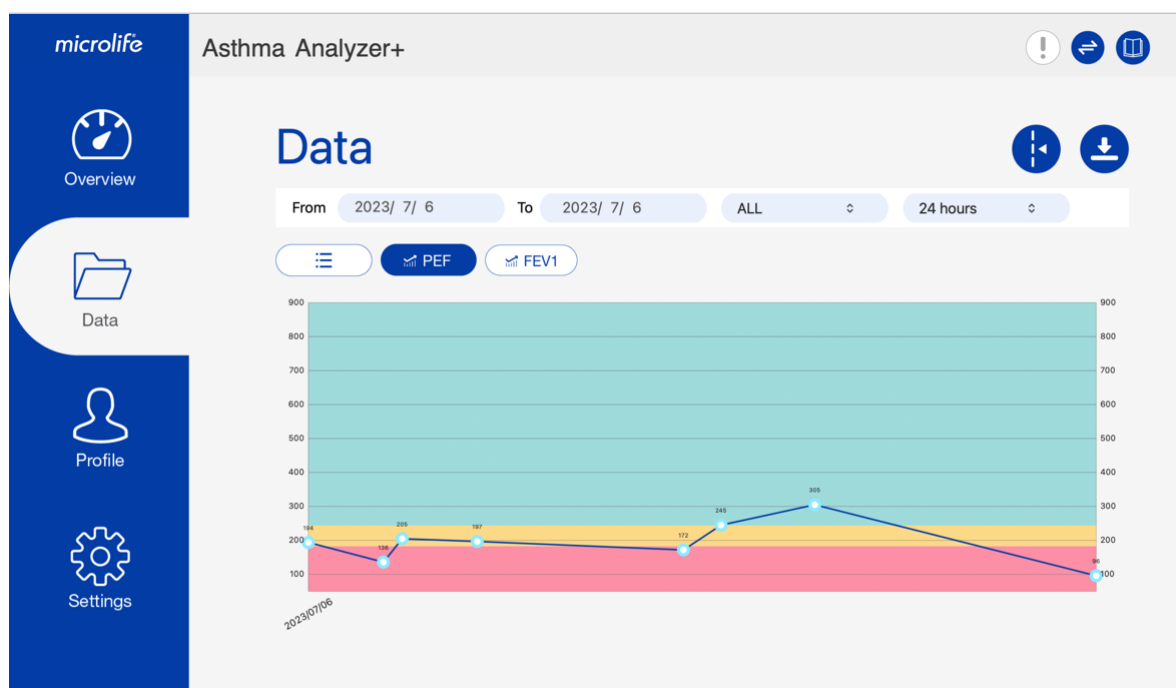
Fig-20

3.5 Customize the Traffic Light Settings

The AA+ can set area limits, create a treatment plan and modify the traffic light zone settings.

Note: Modifying the traffic light settings should only be done under direction of a physician (or other licensed health care practitioner). If you would like to use this feature, determine your customized zones with your doctor and program them on traffic light settings page.

Step1: After downloading the data, users could switch to the PEF Trend Chart page on the Data tab.



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Fig-21
18

Step2: Press the  button, then the traffic light settings dialog will be shown as below.

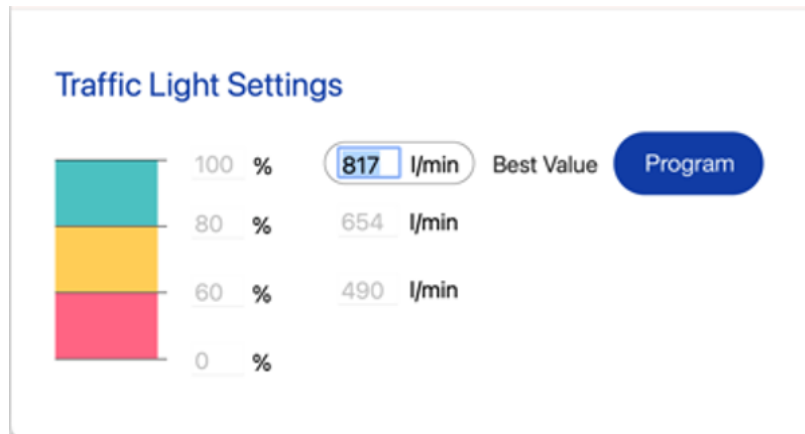


Fig-22

Step3: Based on physician's direction, input the target in the Best Value field. Once the value is input, the corresponding yellow zone and red zone will be changed automatically.

Step4: Press the  button to program the best value setting to the device. Then the message below will be displayed.

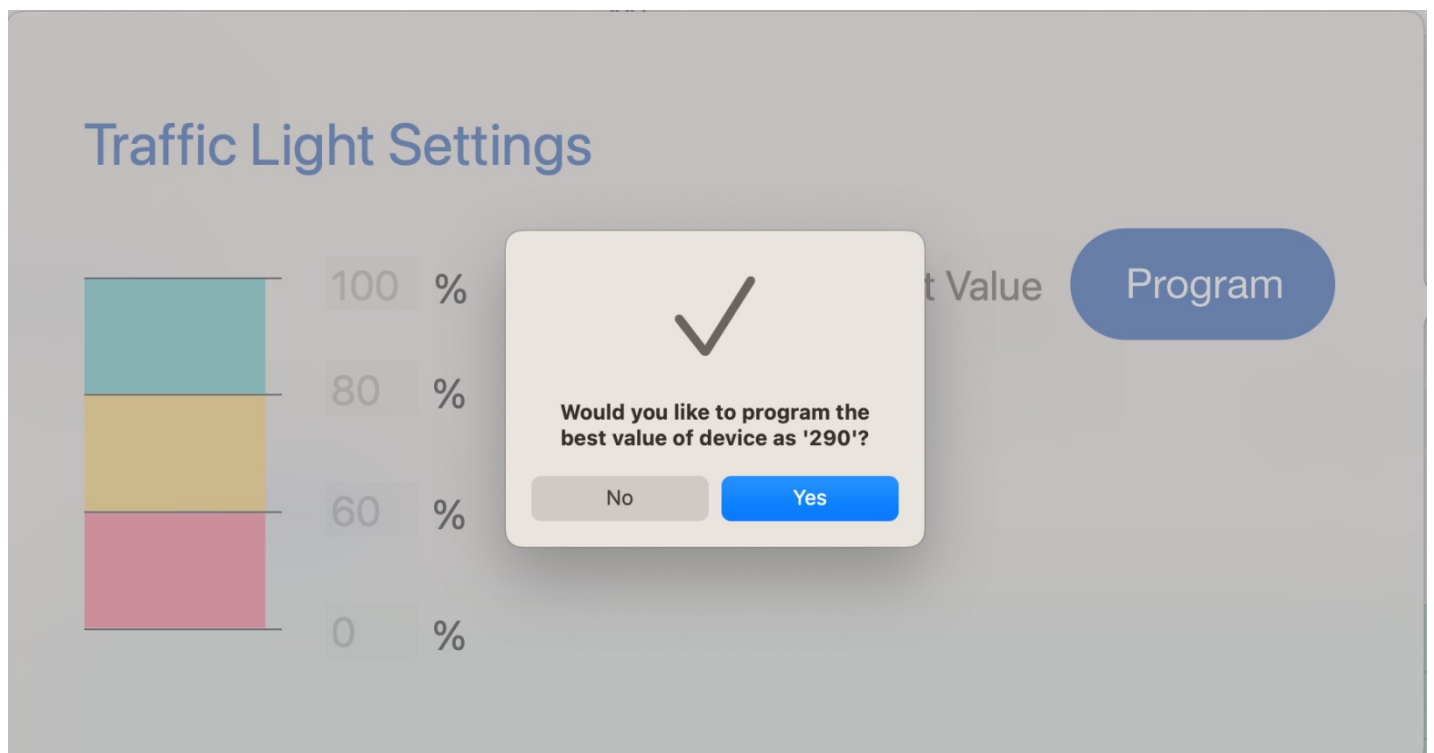


Fig-23

Step5: Once the programming is successful, the message below will be shown.

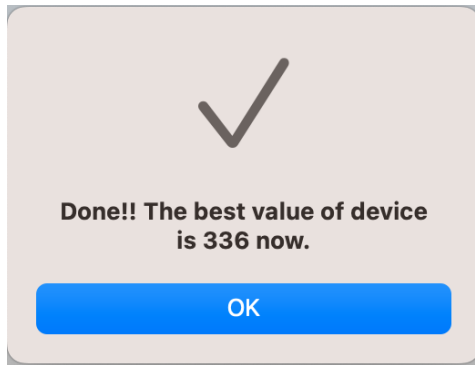


Fig-24

Note: After programming the best value to the device, the corresponding traffic light of the trend chart will also be changed. In addition, if the Traffic Light Settings dialog still there, it's normal. Users can know the yellow zone and red zone's setting via the traffic light settings dialog.

3.6 Select Another User Profile

The AA+ program allows users to create multiple user profiles. If users would like to review another user's readings, they can switch to the corresponding profile.

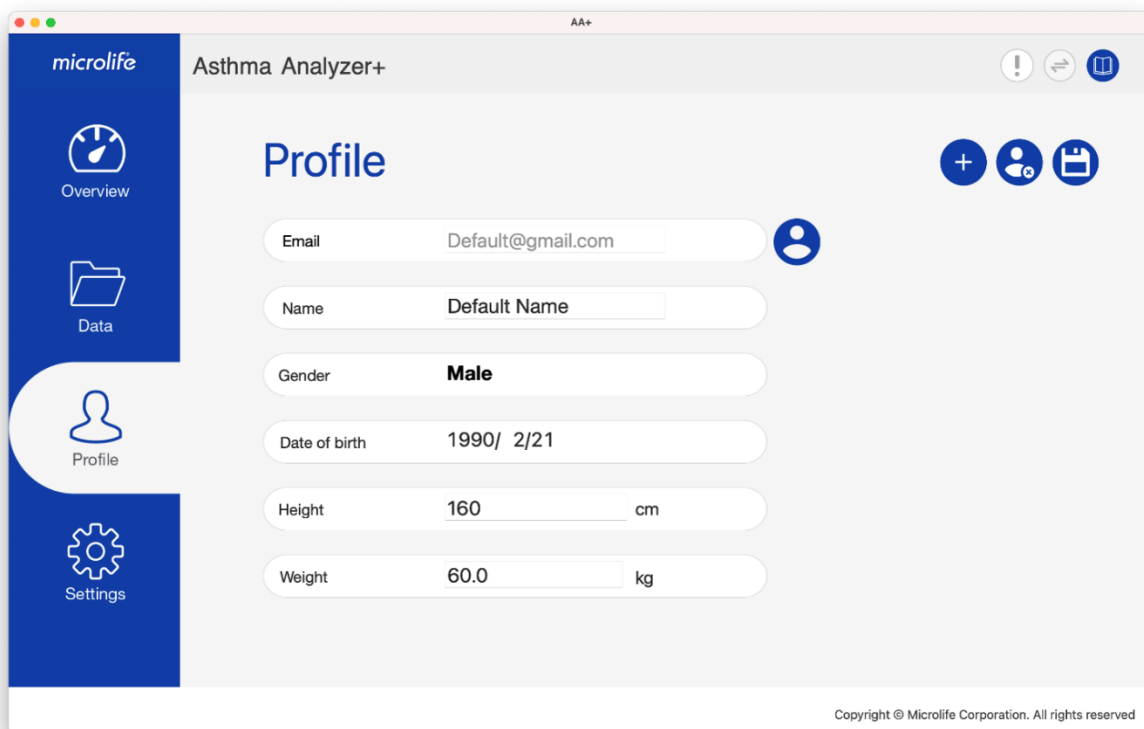


Fig-25

Step1: Press the  button and then the users list will be shown as below. Then users can select the specific user and press the "OK" button to manipulate continuously.

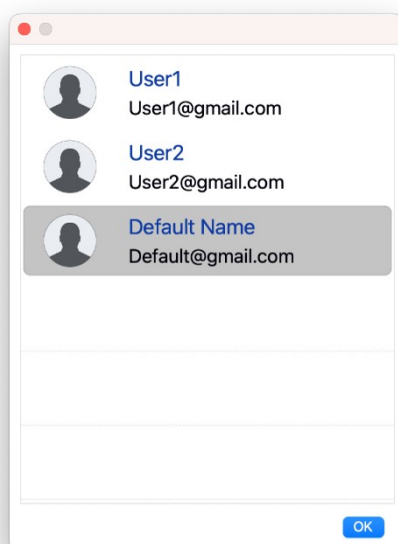


Fig-26

3.7 Export CSV/ PDF Report

The AA+ program can export CSV or PDF report. Users can export it and take to the physicians.

Step1: Decide the data period in the Data tab first.

Data

Maximum PEF
305 l/min (measured)

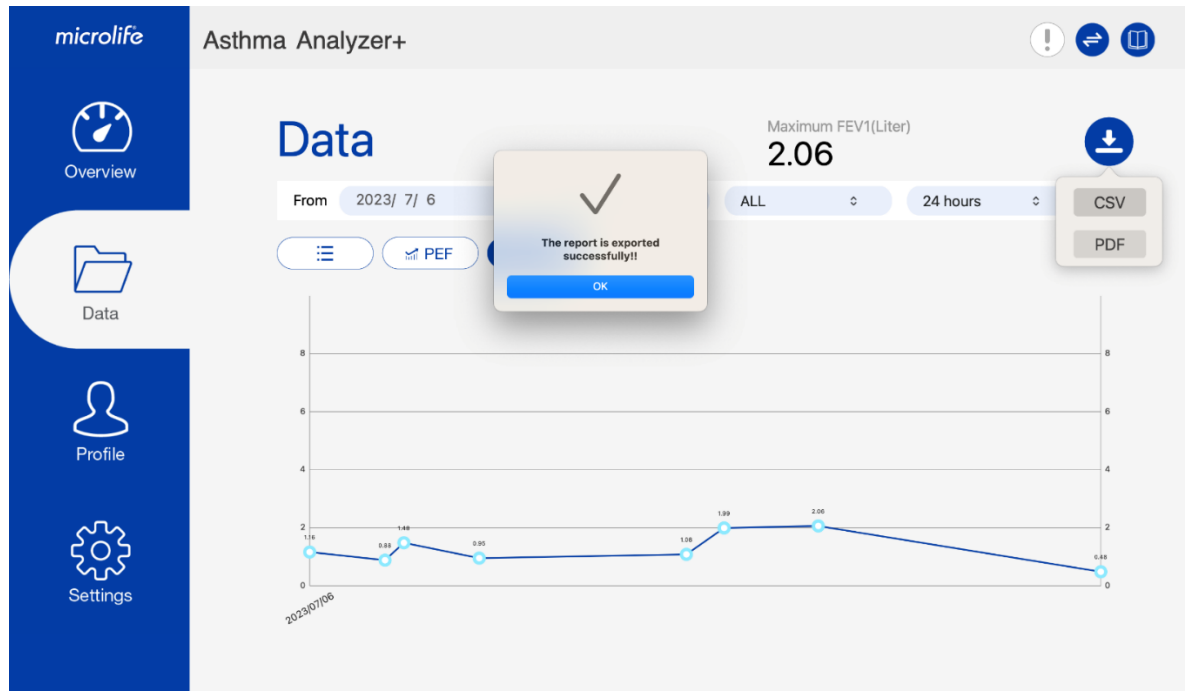
From 2023/ 7/ 6 To 2023/ 7/ 6 ALL 24 hours

PEF FEV1

Date	Time	PEF	FEV1	Notes	
2023/07/06	AM 11:05	96	0.48		
2023/07/06	AM 10:50	305	2.06		
2023/07/06	AM 10:45	245	1.99		
2023/07/06	AM 10:43	172	1.08		
2023/07/06	AM 10:32	197	0.95		
2023/07/06	AM 10:28	205	1.48		
2023/07/06	AM 10:27	136	0.88		

Fig-27
21

Step2: Press the  button and select which format to be exported. Once the report export is done, the message box will be shown up as below.

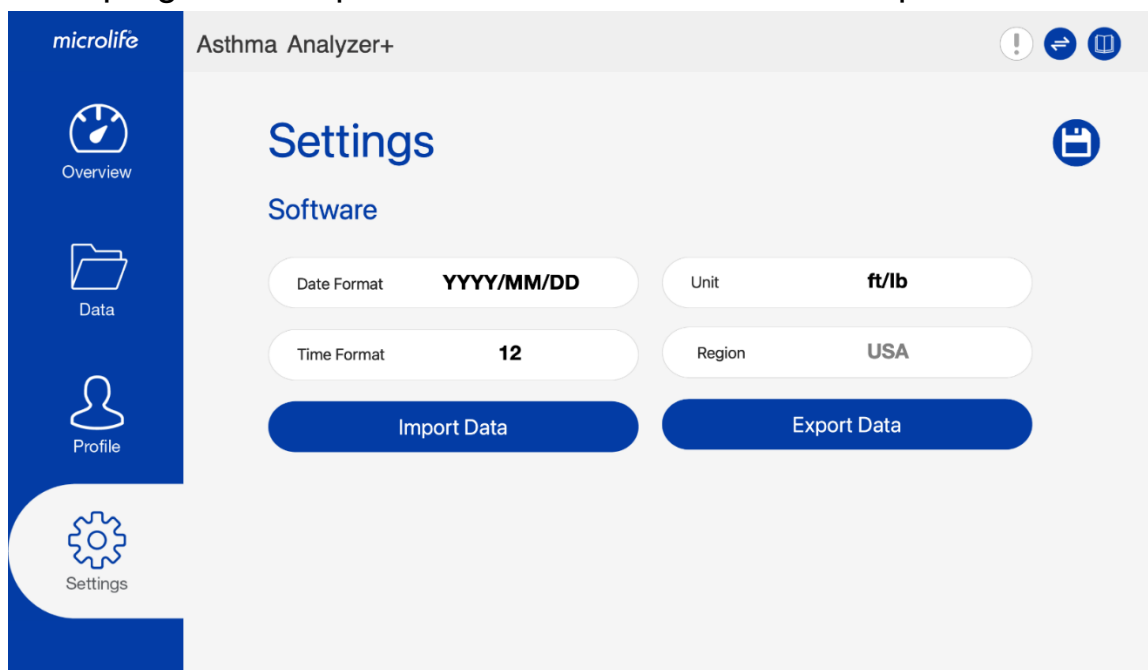


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Fig-28

3.8 Import/ Export Data

The AA+ program provides data import/export functions. Users can import the data from the AA+ program or export data to clinics or another computer.



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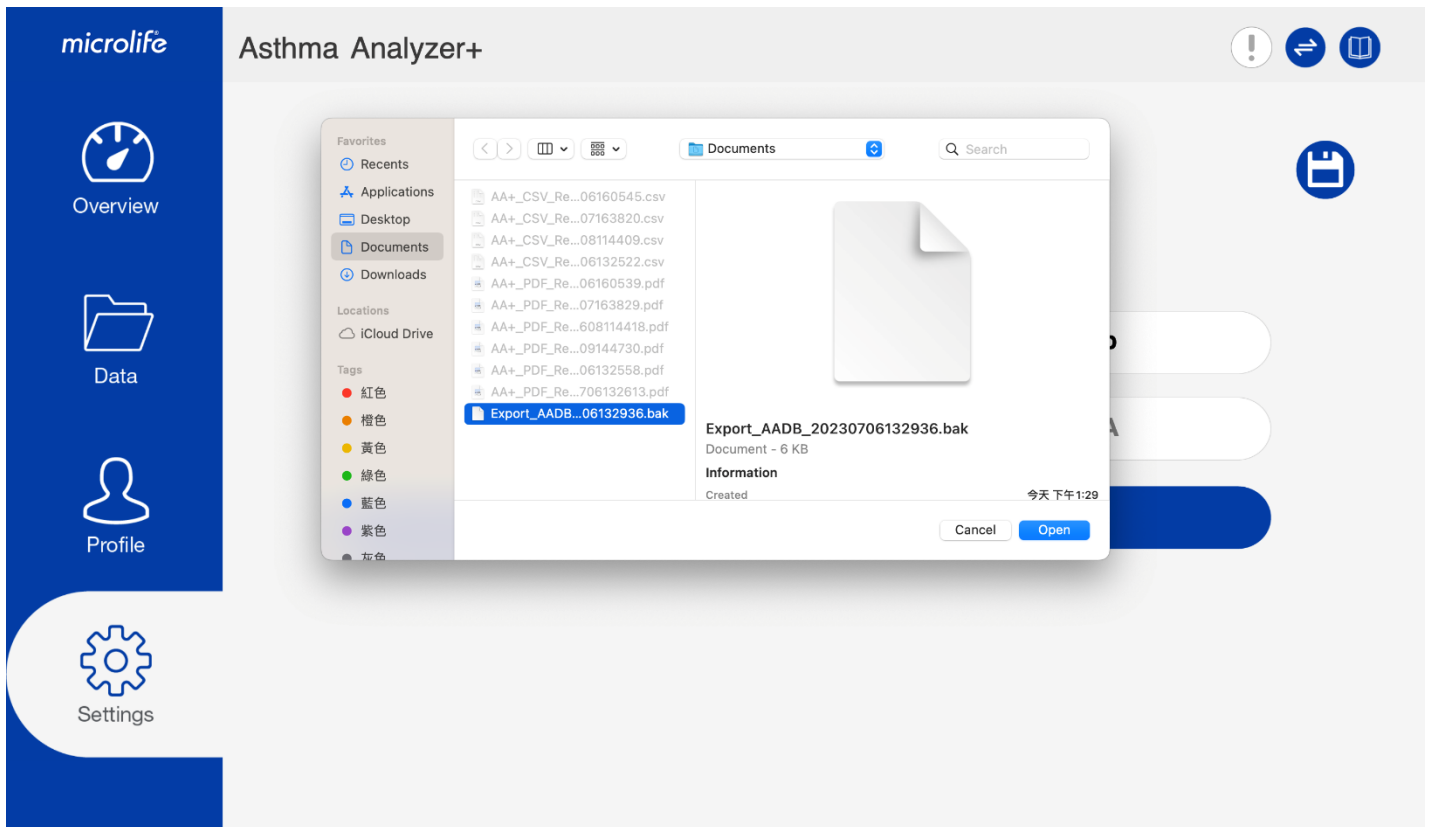
Fig-29

3.8.1 Import Data

Step1: Switch to Settings Tab.

Step2: Press the “Import Data” button.

Step3: Select the specific import file and then import it.



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Fig-30

Step4: Press “Open” and then data will be imported. Once the data import is done, the below message will be displayed.

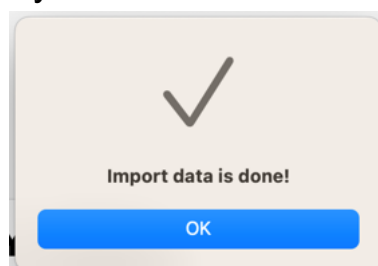


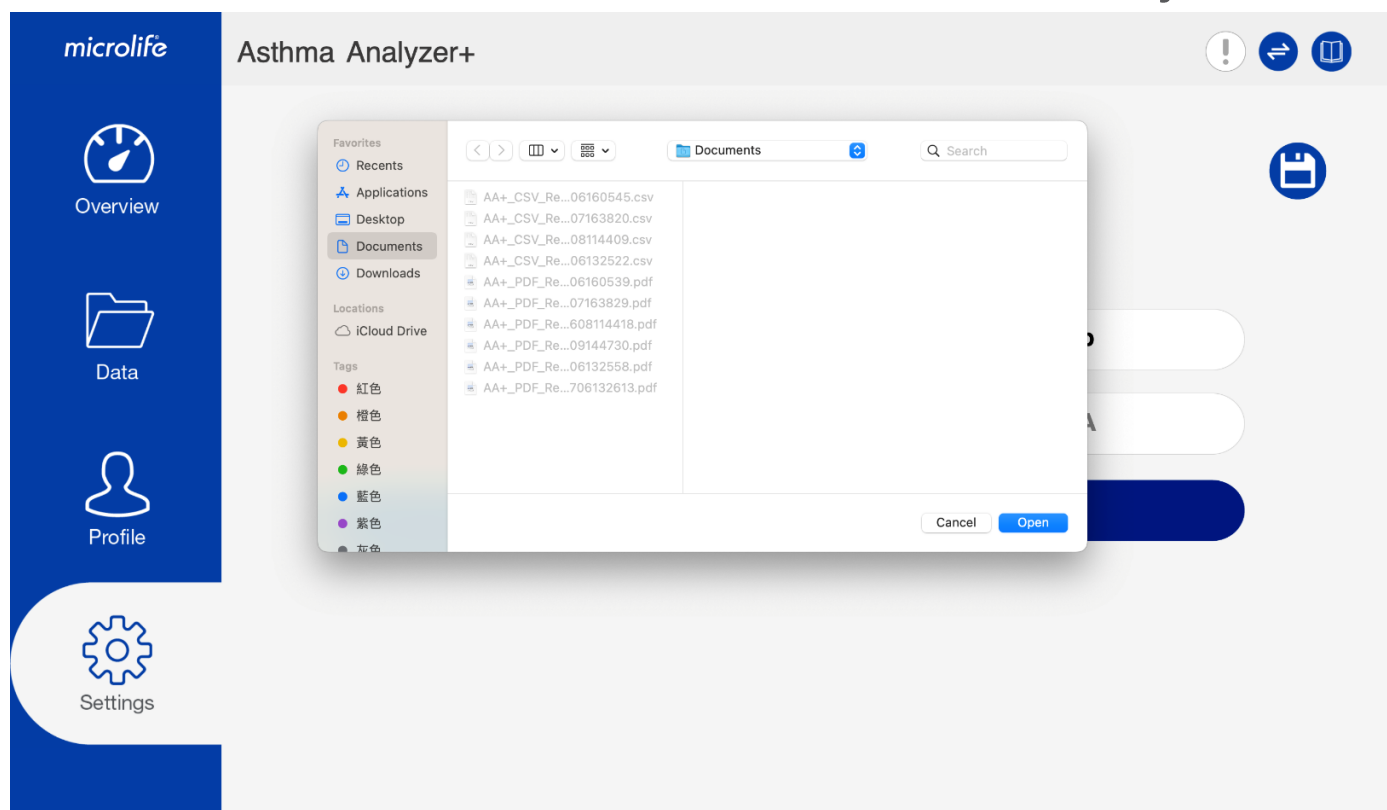
Fig- 31

3.8.2 Export Data

Step1: Switch to Settings Tab.

Step2: Press the “Export Data” button.

Step3: Select the data save path and then export it.



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Fig- 32

Step4: Press “Open” and then data will be exported. Once the data export is done, the below message will be shown.

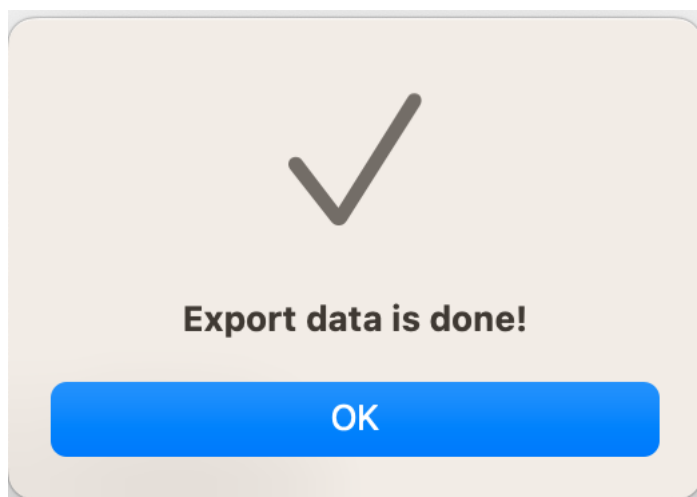


Fig- 33

4 User Manual

Users can press  to open the webpage to download the user manual of AA+ APP.

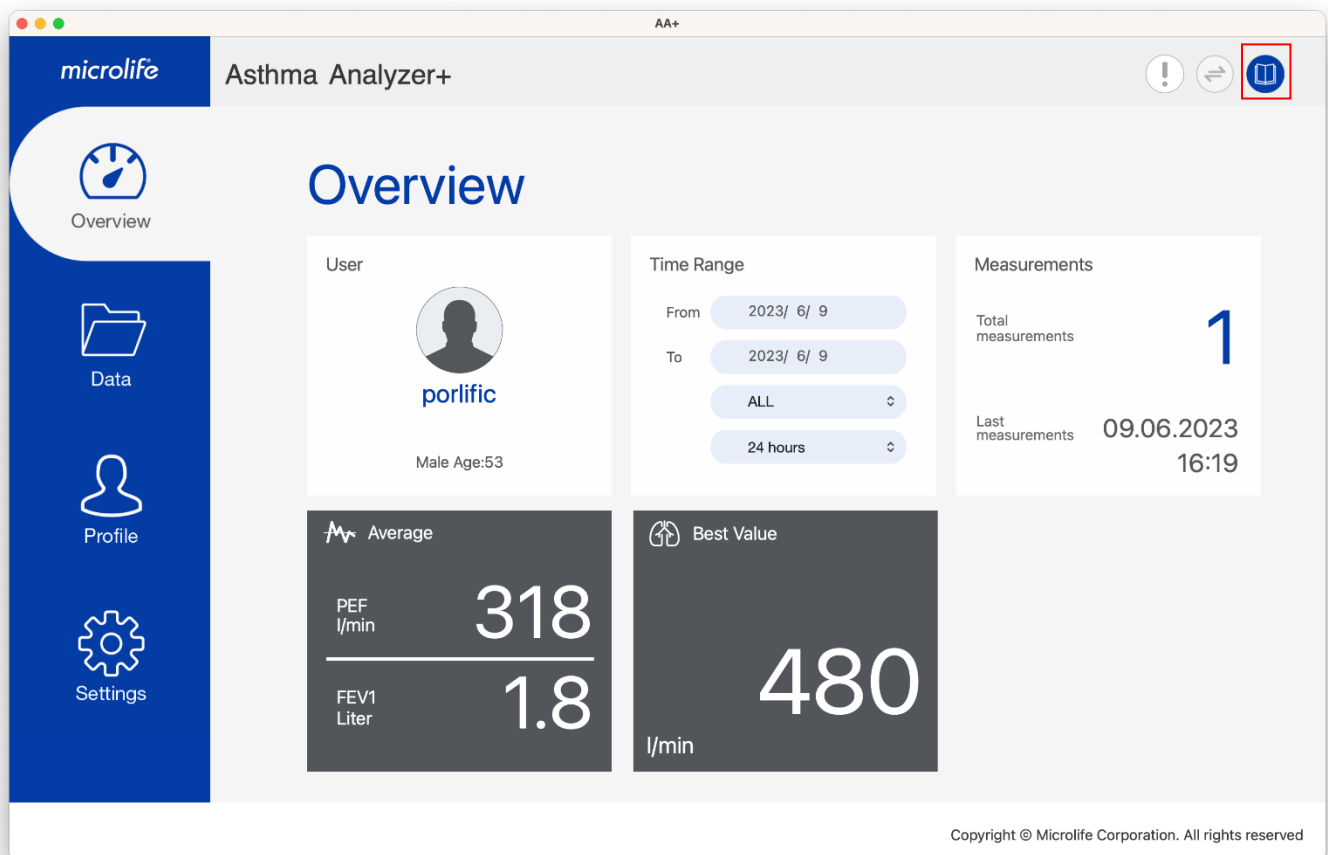


Fig- 34