LightTrip (US) App
User Manual

for use with the
Luna TravelPAP™

CE 0123

REACT
HEALTH

BMC | REACTHEALTH

LightTrip (US) App User Manual V1.0

BMC | REACTHEALTH

1. Software Profile

1.1 Intended Use

The Luna TravelPAP™ system is a CPAP (Continuous Positive Airway Pressure) device designed for the treatment of adult Obstructive Sleep Apnea (OSA) only, either in the hospital or at home. The Luna TravelPAP™ system is for prescription use only. It is a travel CPAP device intended for single-patient use.

The LightTrip (US) App is a mobile application for patients to remotely operate the Luna TravelPAP and transmit, store and display usage and treatment information. It can also receive parameters and device firmware upgrade data from the cloud, and then transmit this data to the device. The LightTrip (US) App also allows healthcare professionals to remotely configure compatible OSA therapy devices. The LightTrip (US) App is for prescription use only.

LightTrip (US) App is designed for the Luna TravelPAP™ device only.

1.2 Operating environment

The LightTrip (US) App is available in Android and iOS versions.

1.2.1 Android version

a) Hardware requirements
CPU: Snapdragon 400 series and above, MT67XX series and above, Kirin 8 series and above and other mainstream chips
Memory: 1 G and above
Hard disk: 16 G and above
Display: 4.0 inches and above, resolution 1136 × 640 and above
Interface: Compatible with BLE, cellular network or WiFi network
b) Operating system software platform: Android 4.3 and above

1.2.2 iOS version

a) Hardware requirements
CPU: A6 and above
Memory: 1 G and above
Hard disk: 16 G and above
Display: 4.0 inches and above, resolution 1136 × 640 and above
Interface: Compatible with BLE, cellular network or WiFi network
b) Operating system software platform: iOS 9.0 and above

1.3 Icon Profile

Icon	Description
	Start/stop icon: click to start or stop ventilation. (Click this icon to connect the LightTrip (US) App via Bluetooth wireless technology to your device.)
	Sleep icon: click to enter the sleep therapy interface.
	Report icon: click to enter the data report interface.
	More icon: click to enter the more functions interface.
	Bluetooth icon: click to enter the Bluetooth management interface.
	Message icon: click to enter the message management interface.
	Setting icon: click to enter the settings interface.
	Accessories setting icon: click to enter the accessories setting interface.
	Fitting Test icon: click to enter mask fitting test interface.
	Report sharing icon: click to share the report.
	Report time selection icon: click to select the time period of a report.
	Return icon: click to return to the previous page.
	Graphics icon: Click to view the Graphs page.

2. Use of Software

2.1 Software Installation

Search LightTrip (US) App (LightTrip) in the Software App Store.
Click to download and install it.

2.2 Bluetooth Management

2.2.1 Connection with Bluetooth wireless technology

Connect the device to a power outlet. Press the Bluetooth button $\ast$ on the device. When the Bluetooth indicator light starts flashing, the device is ready to be connected.

Open the LightTrip (US) App, click Bluetooth icon $\ast$ to start searching for the device. Select the device in the list by the name of the serial number on the nameplate of your device. Click to connect (as shown in Fig. 2-1).

If the connection is successful, the Bluetooth status light on the device will be on.

Note:

The Bluetooth indicator light on the device flashes for 30 seconds, if there is no connection established between the LightTrip (US) App and the device, the device enters an unconnectable state and the Bluetooth indicator light stops flashing.

To activate the Bluetooth connection, press the Bluetooth icon on your device and the light will start flashing. The device can only be connected when the Bluetooth indicator light on your device is flashing.
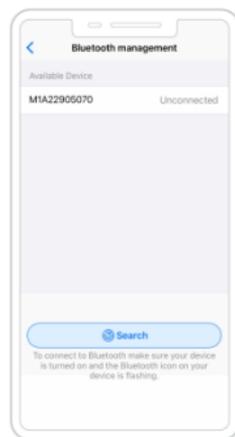

Fig. 2-1

2.2.2 Maintenance with Bluetooth wireless technology

Click the Bluetooth icon and you can disconnect the current device and select another device to connect (as shown in Fig. 2-2).
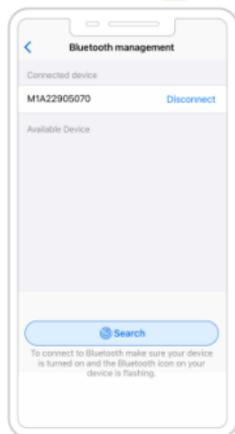
Fig. 2-2

2.3 Sleep Treatment

2.3.1 Device Control

When the device is connected to the LightTrip (US) App, click the start/stop icon to start ventilation. The screen displays the current pressure, ramp time and the operating mode of the device (as shown in Fig. 2-3).

Note:
The app is unable to access the report page and more pages during treatment.

Fig. 2-3

4

2.3.2 Settings

When the device is connected to the LightTrip (US) App, click the settings icon ![Settings] to enter the User Settings page (as shown in Fig. 2-4). Select the setting to be changed. Click the blue value, slide up and down to change the value, and click "OK" to change the setting. Then click "Save" to save the changed settings.

Note:

• If the device is not connected with LightTrip (US) App, click the Settings icon ![Settings], and a pop-up window will appear. Click "OK" to enter the Bluetooth management page.

• If the settings are modified but are not saved, a pop-up window will appear. The pop-up window will allow you to click "OK" to save or click "Cancel" to void the change.
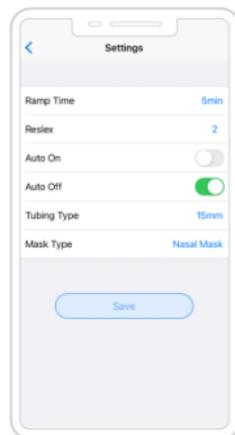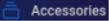

Fig. 2-4

2.3.3 Accessories

When the device is connected to the LightTrip (US) App, click the Accessories setting icon to enter the Accessories settings page, (as shown in Fig. 2-5). Click "Set" to select the reminder cycle. If the actual number of days in use is more than the number of days in the reminder cycle, the actual number of days in use will be shown in orange, otherwise it will be black. If the reminder cycle is set to "Off", the actual number of days in use will be 0.

The actual number of days in use can be reset by clicking "Reset days".

Select the option to be reset by selecting the circle next to the accessory you want to change (as shown in Fig. 2-6), then click "Reset" to set the number of actual days to 0.

Note:
• If the device is not connected to the LightTrip (US) App, click the Accessories setting icon , and a pop-up window will appear. Click "Confirm" to enter the Bluetooth management page.

• If the settings are modified but are not saved, a pop-up window will appear. The pop-up window will allow you to click "OK" to save or click "Cancel" to void the change.
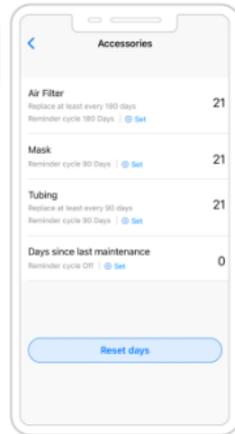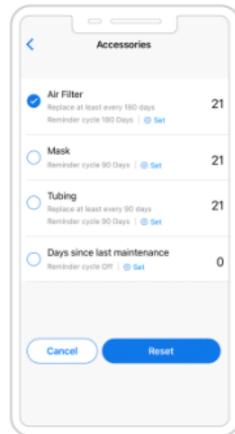

Fig. 2-5

Fig. 2-6

2.3.4 Fitting Test

When the device is connected to the LightTrip (US) App, click the Fitting Test icon
🔵 Fitting Test to enter the Fitting Test page (as shown in Fig. 2-7).

If the screen displays "Testing" (Fig. 2-8), please just wait for some seconds.

Put on your mask and click "Start" (Start) to begin the Mask Fitting Test. If
the screen displays "Please adjust" (Fig. 2-9), adjust the fit of your mask. If the
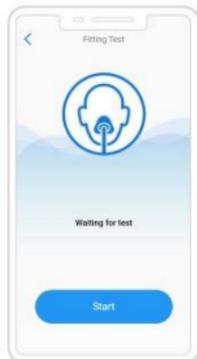screen displays "Great!" (Fig. 2-10), your mask is fitted properly.
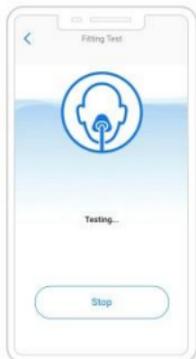
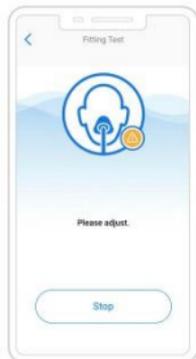| Fig. 2-7	Fig. 2-8	Fig. 2-9	Fig. 2-10

Note:

• If the device is not connected to the LightTrip (US) App when you click the
Fitting Test icon 🔵 Fitting Test, a pop-up window will appear. Click "OK" to enter the
Bluetooth management page.

• If you click the return icon ‹ during the test, the test will stop automatically.

BMC | REACTHEALTH

2.3.5 Firmware Upgrade

When the device is connected to the LightTrip (US) App, it will automatically detect whether a firmware upgrade is required and a pop-up window will appear on the sleep page (as shown in Fig. 2-11).

Click "Confirm" to enter the Firmware Upgrade page. The screen will display the upgrade progress bar(as shown in Fig. 2-12).

After the upgrade is completed, the device will restart and connect to the LightTrip (US) App automatically. A prompt indicating a successful upgrade will pop-up.
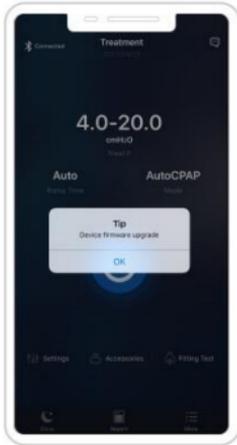

Fig. 2-11   Fig. 2-12

2.3.6 Viewing Messages

Click the Message icon 🖵 in the treatment page, and enter the message interface to view the message list (as shown in Fig. 2-13).

When the message is not read, a red dot is displayed at the front of the message.

Click the message and enter the Message details page to view the message details (as shown in Fig. 2-14).

Slide the message to the left, and the delete button will appear. Click the delete button to delete the message.

Fig. 2-13   Fig. 2-14

Note:
• A maximum of 50 messages can be displayed.

2.4 Report

2.4.1 Report View

Click the Report icon in the bottom navigation bar to enter the Report page, (as shown in Fig. 2-15 to Fig. 2-17).

When the device is connected to the LightTrip (US) App, this page will automatically send you a pop-up alert if there is new data available.

Click the ⌣ button on the right side of Week button, a pop-up selection button will appear for the date selected.
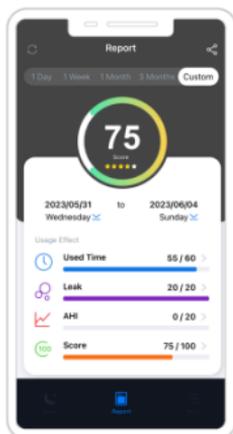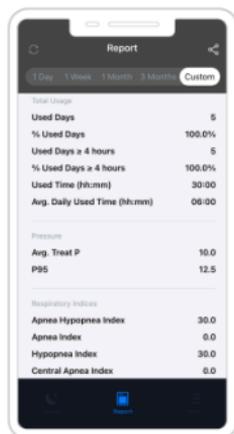

Fig. 2-15   Fig. 2-16   Fig. 2-17

2.4.2 Graph View

At the Report page (shown in Fig. 2-15), click the effects option right button ❯ on the report to view the graphs page (as shown in Fig. 2-18 to Fig. 2-21).
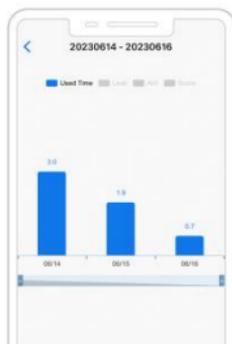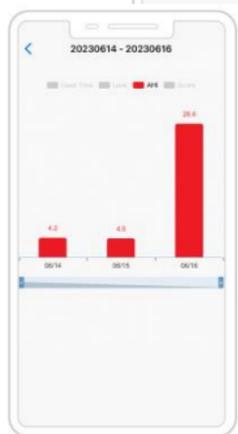
Fig. 2-18

Fig. 2-19

Fig. 2-20

Fig. 2-21

2.4.3 Report Sharing

On the Report page (as shown in Fig. 2-15), click the report sharing icon ⊰, to share your report.

2.5 More

In the More page ☰ More, you can set up and view more information(as shown in Fig. 2-22).

Fig. 2-22

2.5.1 Upload Sleep Data

The default setting in the LightTrip (US) App will automatically upload sleep data to the cloud platform. Turn this setting off in the More page if you do not want data automatically uploaded to the cloud platform (as shown in Fig. 2-23).
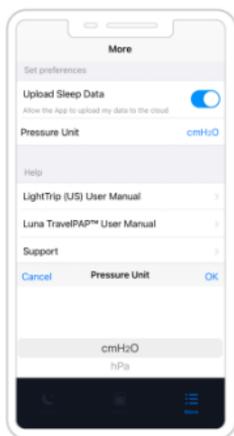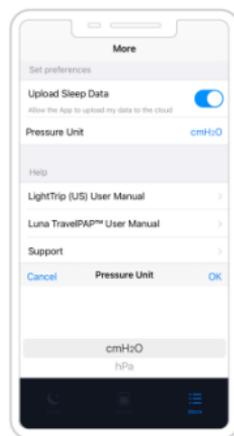

Fig. 2-23   Fig. 2-24

2.5.2 Pressure Unit of Measure

Click the "Pressure Unit" and the selection box will pop-up from the bottom of the screen (as shown in Fig. 2-24).
Select the pressure unit (cmH$_2$O or hPa) and click "OK". Your pressure setting will then be displayed according to the unit selected.

13

2.5.3 Help

2.5.3.1 App Instructions

Click the "LightTrip (US) App User Manual" to enter into the App user manual (as shown in Fig. 2-25).

LightTrip (US) App
User Manual

for use with the
Luna TravelPAP™

CE0123

Fig. 2-25

Luna TravelPAP™
User Manual

Auto CPAP System

Fig. 2-26

2.5.3.2 Device Instructions

Click the "Luna TravelPAP™ User Manual" to enter into the device user manual(as shown in Fig. 2-26).

2.5.3.3 Support

Click "Support" to enter the Support page (as shown in Fig. 2-27).
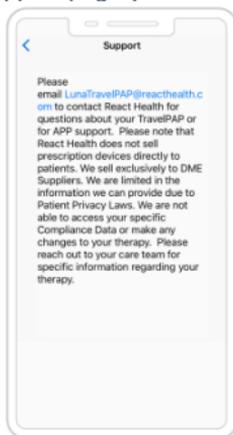
Fig. 2-27

2.5.3.4 Instructional Videos

Select the type of mask you will be wearing with the device to access several operational videos (as shown in Fig. 2-28 and 2-29).

1) Connect the power and tubing.
2) Put on your mask.
3) Connect the mask and tubing.
View the different videos by sliding the screen to the left.

Fig. 2-28

Fig. 2-29

2.5.4 About

2.5.4.1 About App

Click "About App" to enter the About App page (as shown in Fig. 2-30). Click "Terms of Use" to view the Terms of Use (as shown in Fig. 2-31). Click "Privacy Policy" to view the Privacy Policy (as shown in Fig. 2-32).

Fig. 2-30

Fig. 2-31

Fig. 2-32

2.5.4.2 About Device

Click "About Device" to enter the About Device page (as shown in Fig. 2-33).

Note:
• Connection to the device via Bluetooth
wireless technology is required to see the data.
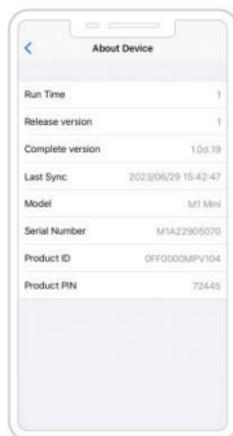
Fig. 2-33

2.5.4.3 About React Health

Click "About React Health" to enter the React Health page (as shown in Fig. 2-34).
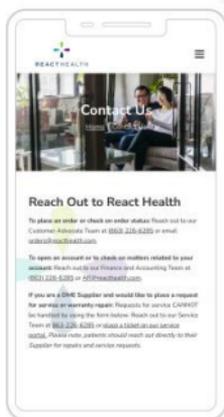
Fig. 2-34

2.5.4.4 About Luna TravelPAP™

Click "About Luna TravelPAP™" to enter the Luna TravelPAP™ page (as shown in Fig. 2-35).

Fig. 2-35

2.5.4.5 Contact Us

Click "Contact Us" to enter the Contact Us page on the official website of React Health (as shown in Fig. 2-36).
Click the input box to enter your questions or comments (as shown in Fig. 2-37).

Fig. 2-36   Fig. 2-37

3. Options in the Patient Menu and Corresponding Descriptions

3.1 Treatment settings

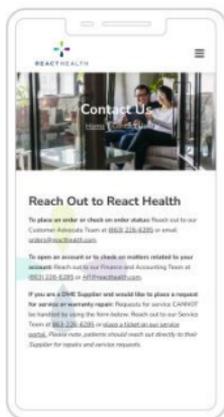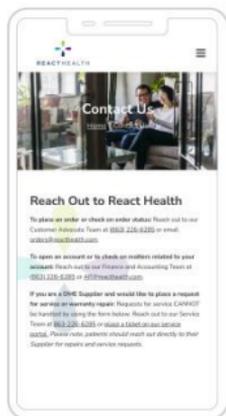| Option	Range	Description
Ramp Time	0 to 60 minutes/ Auto	In order to increase comfort and help the patient fall asleep easily, the pressure can increase gradually when the Ramp feature is enabled. The ramp time during which the initial pressure rises to the prescribed treatment pressure- can be adjusted. The time increases or decreases in five minutes increments. The LightTrip (US) App displays a real-time countdown of the remaining ramp time in minutes.
Reslex	Off, 1/2/3	This feature enables the device to automatically reduce the treatment pressure when the patient exhales, to make the user more comfortable. The higher the numbering is, the more pressure the device reduces. "Off" means this feature is disabled.
Auto on	On/Off	If this function is turned on, the device will automatically start delivering air under preset pressure after the patient puts on a breathing mask and takes several deep breaths. Click to select "On" or "Off".
Auto off	On/Off	If this function is turned on, the device will automatically stop delivering air and shut down after the patient takes off the breathing mask. Click to select "On" or "Off".
Tubing Type	22 mm/ 15 mm	There are two types of tubing available. Click to select "22 mm"or"15 mm".
Mask Type	Full Face/ Nasal/ Pillows/ Other	There are three mask types available; Full Face (Full-Face Mask), Nasal (Nasal Mask), and Pillow (Nasal Pillows Mask). The patient can choose other suitable masks as well. When selecting any mask other than the above three types of REACT HEALTH masks, the patient can identify the mask as other.

3.2 Accessories settings

Option	Range	Description
Air Filter	Off/7 days/14 days/21 days/30 days/60 days/90 days/180 days	Set the air filter reminder cycle, it will remind the user once the cycle is over.
Mask	Off/30 days to 720 days	Set the mask reminder cycle, it will remind the user once the cycle is over. The setting increment is 30 days.
Tubing	Off/30 days to 720 days	Set the tubing reminder cycle, it will remind the user once the cycle is over. The setting increment is 30 days.
Days since last maintenance	Off/180 days/360 days	Set the cleaning and maintenance remind cycle, it will remind the user once the cycle is over.

Note:

Replace the Air Filter at least every 180 days and the Tubing at least every 90 days.

3.3 Introduction of "Report"

You can select to view the usage reports generated on a certain day or a certain period according to your needs. You can use shortcut keys to quickly query or customize the time query.

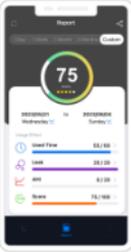| Prompt Message	Range	Description
Score	0 to 100	According to the usage data of the selected time period, the usage effect is calculated with different weights.
Using effect:		
Used time	0 to 60/60	The score is calculated according to the user's usage in the selected time period. The "0 to 60" part represents the score of usage time, with the full score of 60.
Leak	0 to 20/20	The score is calculated according to the air leakage in the selected period time. The "0 to 20" part represents the score of air leakage, with a full score of 20.
AHI	0 to 20/20	The score is calculated according to the number of AHI occurrences in the selected period. The "0 to 20" part represents the score of AHI index, with a full score of 20.

For the above data, you can also click to view the column chart of each item to analyze the trend of single use effect.

In addition to the above data, the report also contains detailed statistics on usage, pressure, respiratory index and air leakage.

3.4 Usage score of LightTrip (US) App

After each treatment, the LightTrip (US) App will provide a Usage Score (for CPAP and AutoCPAP mode only) and a Usage Summary on the screen for the user to get a quick understanding of their usage for the recent day (from 12:00 noon of previous day to 12:00 noon of the day).
The total score is 100 points, with the below breakdown:

Total score	Status	Display
≥75	Good	
55-74	Acceptable	
≤54	Needs improvement	
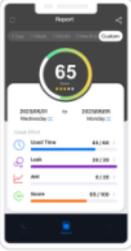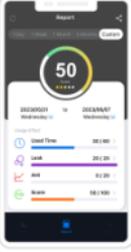
Used time (60 points)

The score increases as the user continues to receive treatment. Initially, the score begins at 5 points for the first 60 minutes and then increases by 5 points for every subsequent 30 minutes of treatment, with a maximum possible score of 60 points.

Used time (min)	Used time ≥390 (6.5 hrs)	360 (6 hrs)≤ Used time < 390 (6.5 hrs)	330 (5.5 hrs)≤ Used time < 360 (6 hrs)	300 (5 hrs)≤ Used time < 330 (5.5 hrs)	270 (4.5 hrs)≤ Used time < 300 (5 hrs)	240 (4 hrs)≤ Used time < 270 (4.5 hrs)	210 (3.5 hrs) ≤Used time < 240 (4 hrs)
Score	60	55	50	45	40	35	30

Used time (min)	180 (3 hrs)≤ Used time < 210 (3.5 hrs)	150 (2.5 hrs)≤ Used time < 180 (3 hrs)	120 (2 hrs)≤ Used time < 150 (2.5 hrs)	90 (1.5 hrs) ≤ Used time < 120 (2 hrs)	60 (1 hr) ≤ Used time < 90 (1.5 hrs)	0≤Used time < 60 (1 hr)	
Score	25	20	15	10	5	0	

Mask seal (20 points)

If the user is wearing the mask well without extra leakage during treatment, then the user can score up to 20 points. If the average leakage is less than 10 L/min, it scores 20 points, and 5 points will be deducted for every 5 L/min increase in leakage.

Leak (L/min)	Leak<10	10≤Leak < 15	15≤Leak < 20	20≤Leak < 25	Leak≥25
Score	20	15	10	5	0

Respiratory events (20 points)

The fewer the respiratory events (apneas and hypopneas), the higher the score.

If AHI is less than 5, it scores 20 points, when AHI ≥ 5 and for every 5 increases in AHI, 4 points is deducted.

AHI	AHI<5	5≤AHI < 10	10≤AHI < 15	15≤AHI < 20	20≤AHI < 25	AHI≥25
Score	20	16	12	8	4	0

3.5 Introduction of "More"

Option	Description
Upload sleep data	Users can choose whether or not to upload sleep data to the cloud platform. If "Upload sleep data" is selected, the device will automatically upload sleep data to the cloud platform.
Pressure Unit	Users can choose a pressure measurement unit, "hPa" or "cmH$_2$O". The default setting is "cmH$_2$O".

Users can find information, controls, reports and more on the Luna TravelPAP™ in the LightTrip (US) App User Manual. The LightTrip (US) App Manual can be found in the LightTrip (US) App in the More section.

LightTrip (US) App User Manual V1.0

Issue date: 10/08/2023