

TOPSONMED®

INTRODUCTION

SoundSleep Series

CPAP & BPAP



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Part 1

Company Introduction



Company Introduction

TopsonMed was founded in 2017 and headquartered in Shijiazhuang City, Hebei Province, China. We are an emerging and fastgrowing company focusing on the R&D, manufacturing and sale of **sleep and respiratory products, including CPAP/BPAP machines, masks, and accessories.**

We have achieved **CE and ISO certification**, and have also obtained a wide range of medical registrations in many other countries, including **CDSCO, SFDA, ANVISA**, etc.

Our products are currently sold in over 60 countries worldwide across Europe, Middle East, Asia, Latin America and Africa.

TopsonMed is committed to the development and supply of innovative, high-quality and cost-effective products for our customer and partners and being a trustworthy brand in the sleep and respiratory care industry.



R&D, manufacturing,
sales center



60+
countries
and regions

TOPSONMED®

Part 2

Product Overview



Product Range

Sleep Therapy Device



Respiratory Care Device



Full Face Mask
Nasal Mask



The SoundSleep Series homecare ventilators include both sleep therapy devices, designed for patients with sleep apnea, and respiratory care devices, tailored for individuals with COPD and respiratory restriction diseases and hypoventilation.

In addition, we offer self-manufactured full face masks and nasal masks, fully compatible with our devices, as well as most other major brands of CPAP & BPAP device on the market.

Product Model

	Type	Application	Model	Available Modes	Pressure Range	Color
Topson SleepSound Series	Sleep care	Sleep apnea	LC-CPAP	CPAP	4-20cmH ₂ O	White
			LC-APAP	CPAP, Auto	4-20cmH ₂ O	
			LC-BPAP-20A	CPAP, Auto, S, AutoS	4-20cmH ₂ O	Black
			LC-BPAP-25A	CPAP, Auto, S, AutoS	4-25cmH ₂ O	
	Respiratory care	COPD, respiratory restriction diseases and hypoventilation	LC-BPAP-20	CPAP, Auto, S	4-20cmH ₂ O	
			LC-BPAP-25	CPAP, Auto, S	4-25cmH ₂ O	
			LC-BPAP-20T	CPAP, Auto, S, T, S/T	4-20cmH ₂ O	
			LC-BPAP-25T	CPAP, Auto, S, T, S/T	4-25cmH ₂ O	
			LC-BPAP-30T	CPAP, Auto, S, T, S/T	4-30cmH ₂ O	
			LC-BPAP-25T Pro	CPAP, Auto, S, Auto S, T, S/T	4-25cmH ₂ O	
			LC-BPAP-30T Pro	CPAP, Auto, S, Auto S, T, S/T	4-30cmH ₂ O	
			LC-BPAP-25T TVAPS	CPAP, Auto, S, AutoS, T, S/T, PC, TVAPS	4-25cmH ₂ O	
			LC-BPAP-30T TVAPS	CPAP, Auto, S, AutoS, T, S/T, PC, TVAPS	4-30cmH ₂ O	

Product Appearance

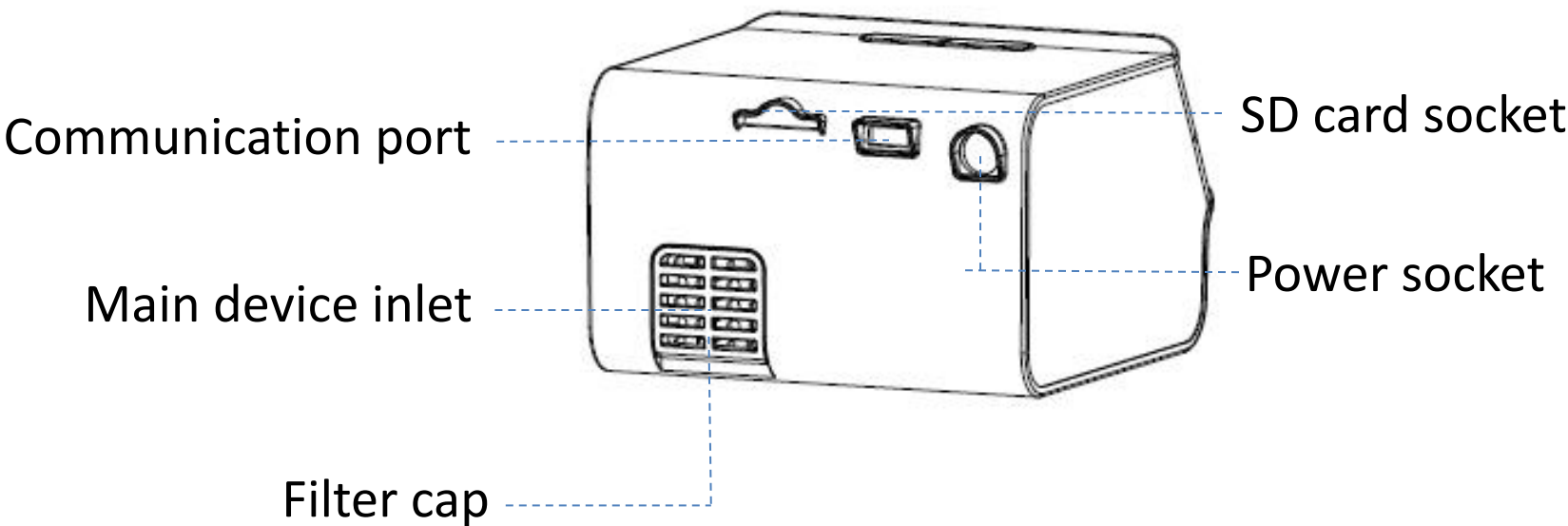
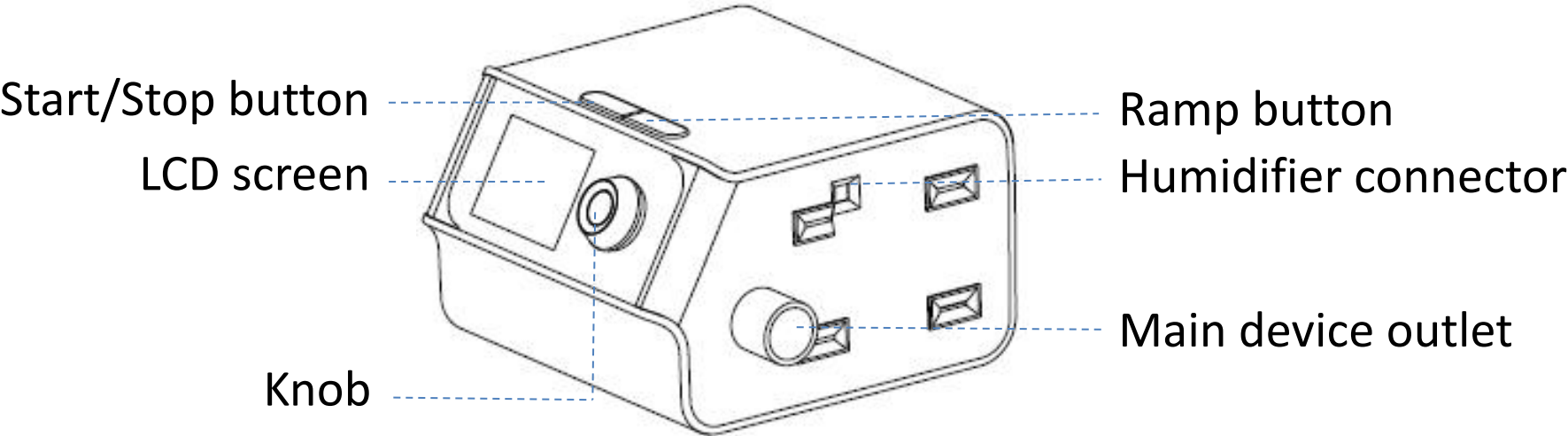
The SoundSleep homecare ventilator consists of two main components: the main device and the humidifier.

These components work together to provide effective therapy while maintaining user comfort.

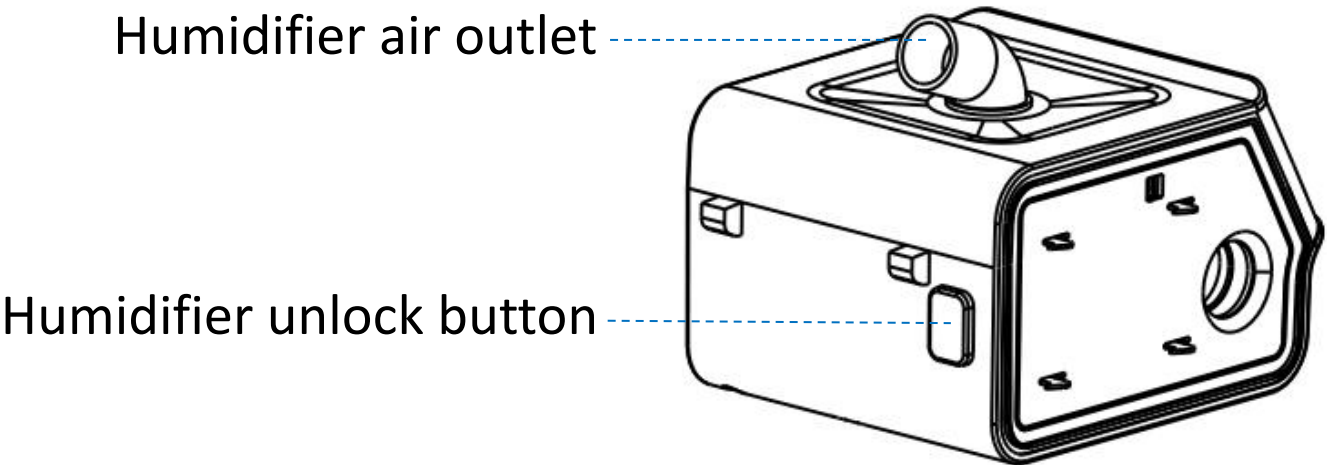
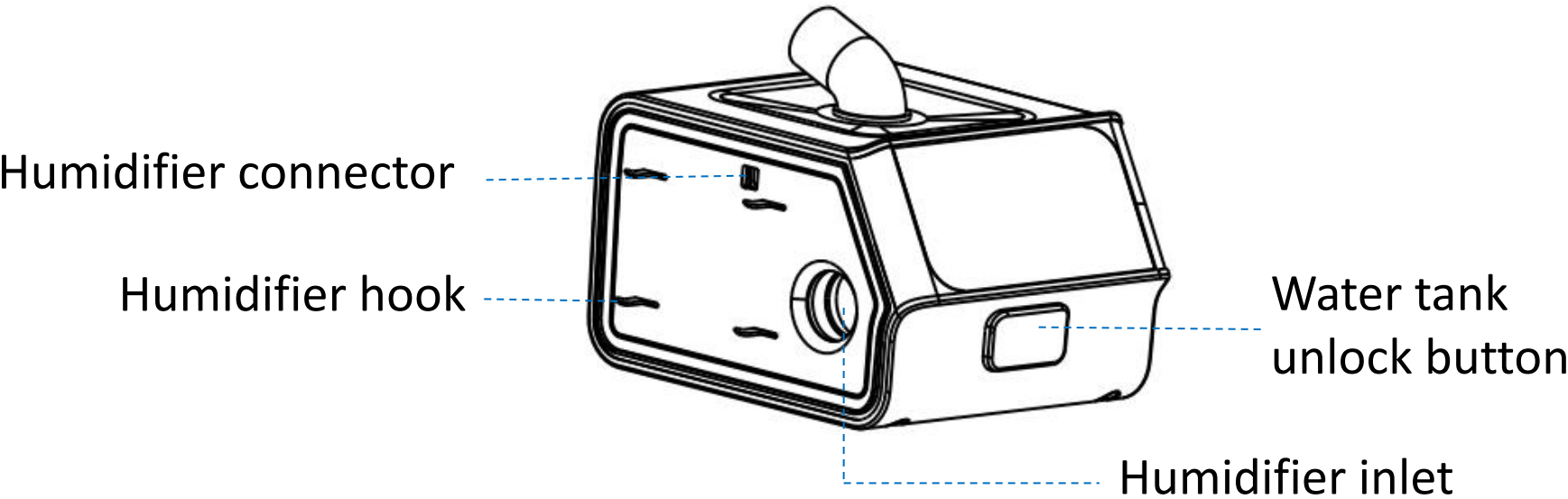


Product Appearance

✓ Main device



✓ Humidifier



Product Configuration

No.	Component	Qty	Remark
1	Main device	1	Included
2	Humidifier	1	Optional
3	Power cord	1	Included
4	Power adapter	1	Included
5	Fitler	1	Included
6	SD card	1	Included
7	Tube	1	Included
8	Mask	1	Optional
9	User manual	1	Included
10	Carrying case	1	Included
11	Quick guide	1	Included
12	Certification	1	Included

Part 3

Product Advantages



Design Features

Compact and Lightweight Design

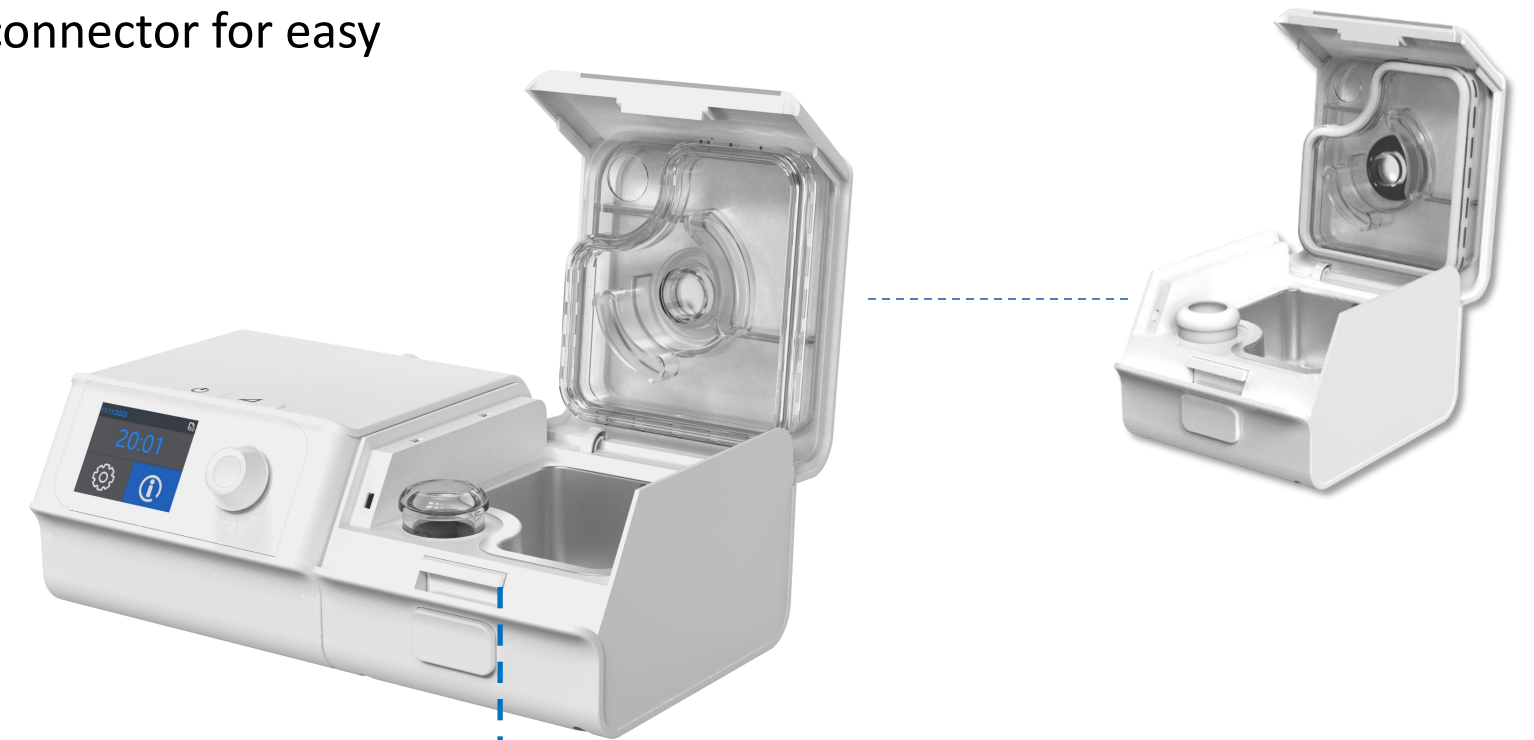
Blending easily into any home setting.

Simple Start/Stop button
One-touch Ramp Function



Rotatable tube connector

Upward-facing tube connector for easy connection.



2.4" Color Display

With ergonomic tilt for better visibility

Light & Dark theme modes available

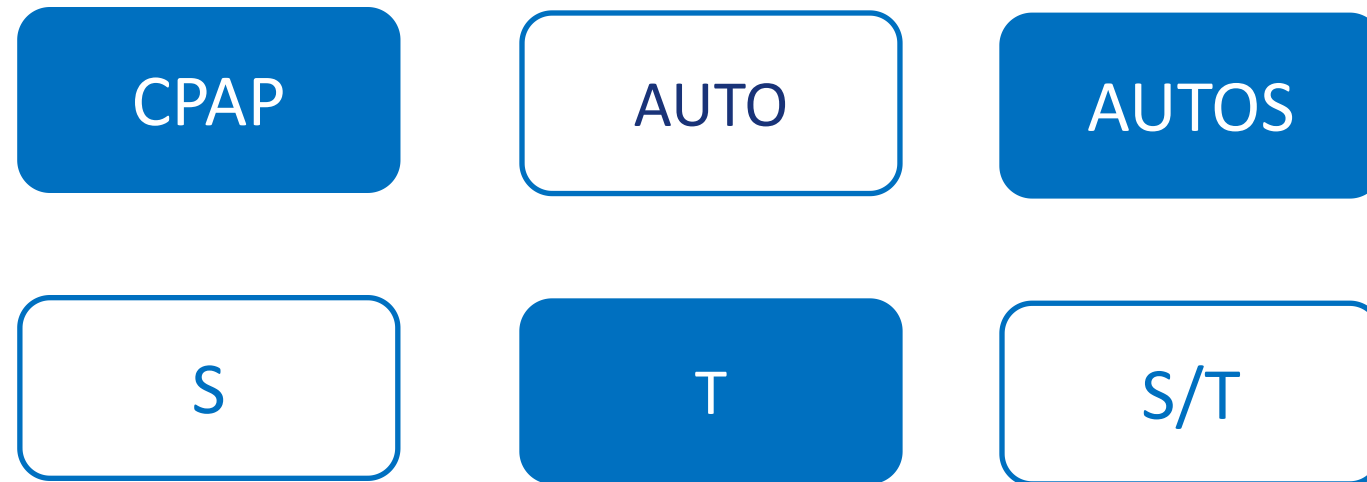
Seperated Humidifier

One-touch water chamber opening, easy refilling. Reduces risk of water leakage due to incorrect filling.

Easy to clean, designed for simple maintenance and longer service life.

Hospital-grade Mode

✓ Basic modes



✓ Hospital-grade modes



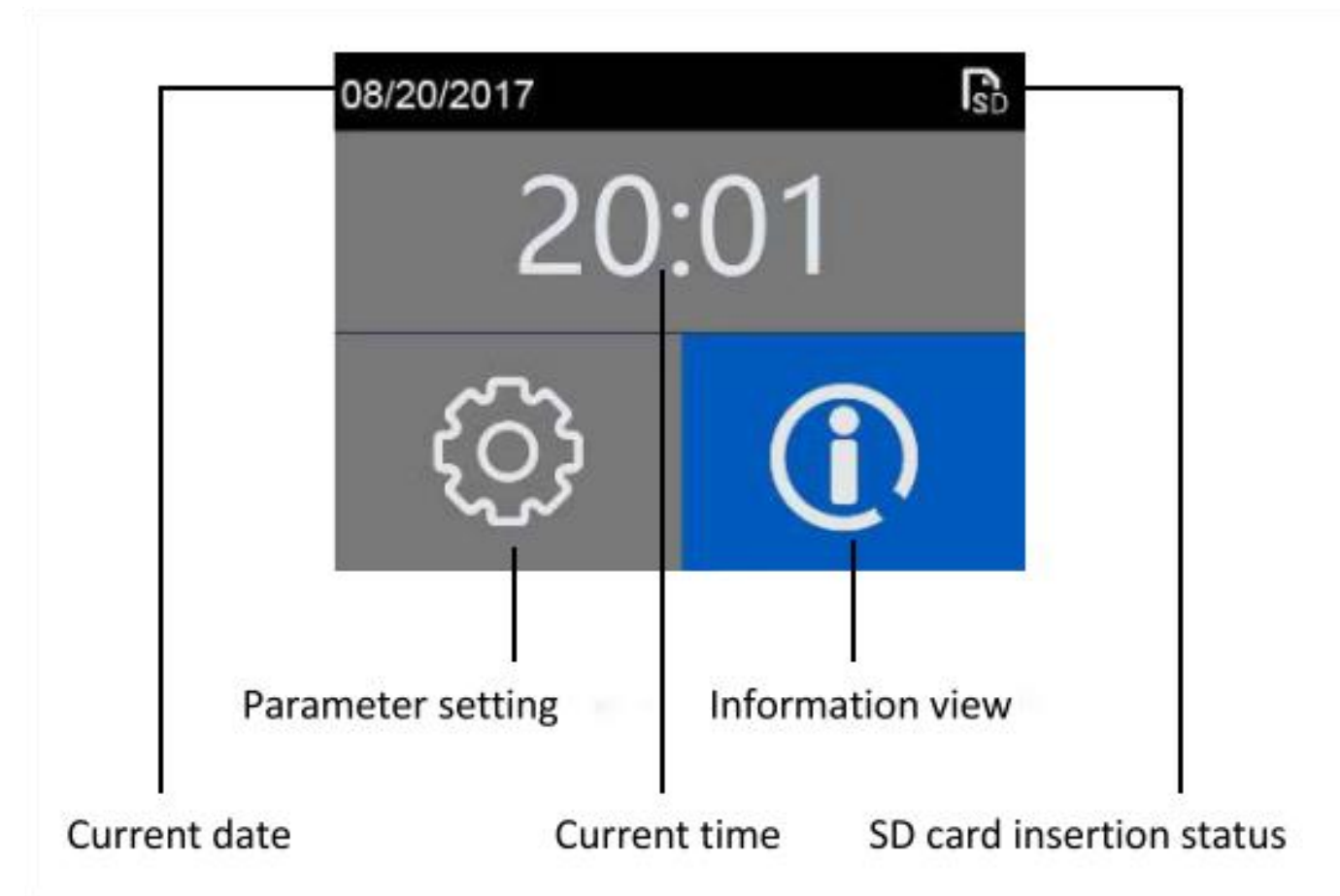
- ⦿ **PC mode** is mainly used for patients with rapid respiratory rate, low tidal volume, and hypoxemia.
- ⦿ **TVAPS mode** is primarily designed for treating patients with chronic alveolar hypoventilation, such as those with COPD, neuromuscular diseases, or obesity hypoventilation syndrome.

User-Friendly Standby Interface

Upon powering on, the device displays the standby interface (shown below).

Users can easily navigate menus, adjust parameters, or access therapy data by rotating and pressing the control knob.

The interface also displays SD card insertion status.



Real-time Therapy Data

From the standby interface, pressing the Start/Stop button activates the treatment mode (Fig. 1).

The knob allows navigation to: detailed therapy data (Fig. 2), or the Flow/Pressure Dual Waveform Interface (Fig. 3) displaying real-time airflow and pressure curves for monitoring.

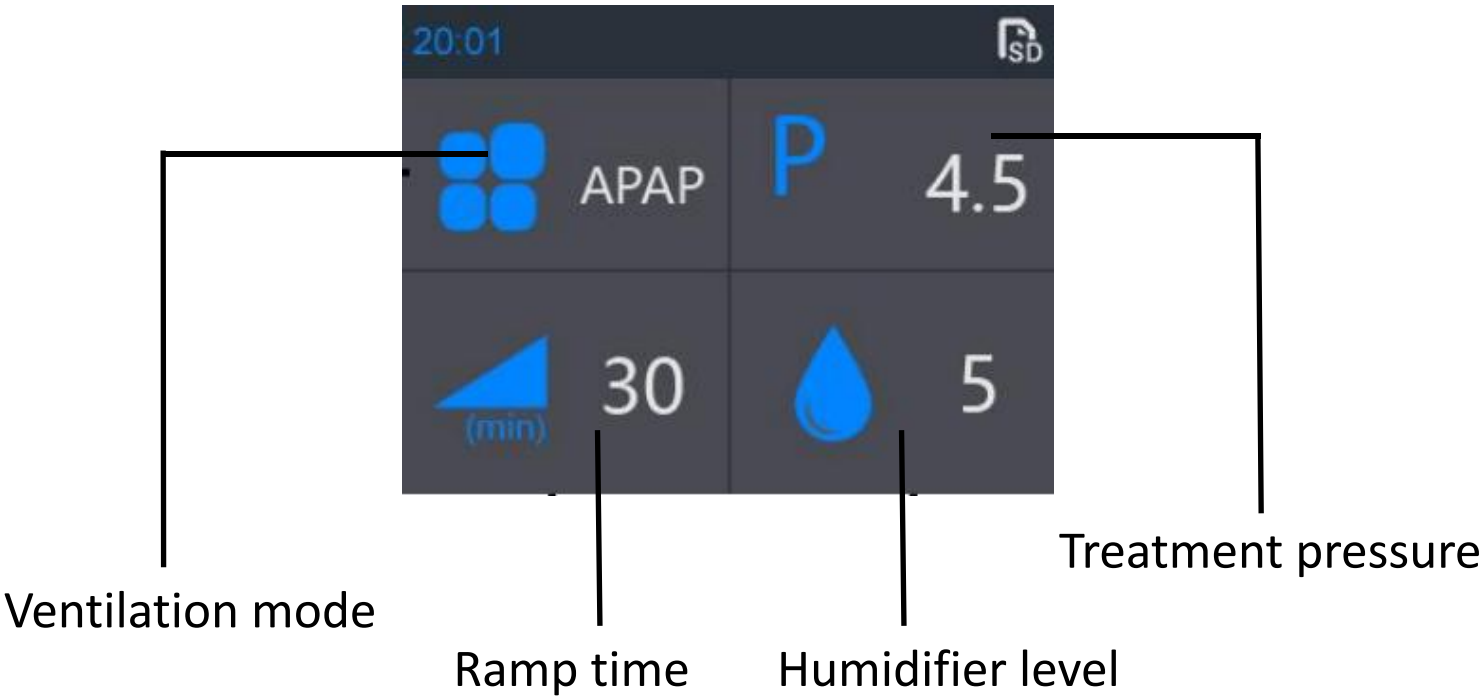


Fig. 1

Treatment 2/3				SD
Leak	0	RR	15	
MV	7.5	Vt	3	
Ti	1.0s	IPAP	8.0	
I:E	1:4	EPAP	4.0	
%Spont trigger		75%		

Fig. 2

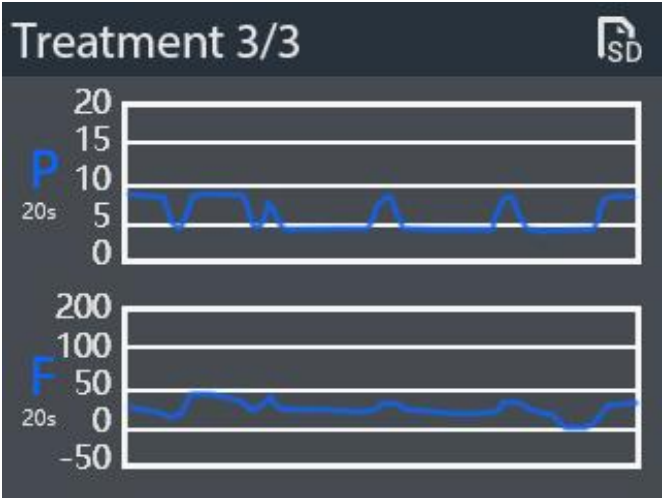


Fig. 3

Multilevel Respiratory Event Detection



The device can detect different flow limitation events and respond accordingly to prevent airway from collapsing in the beginning.



The device can identify different frequencies of snoring and hyponea events accurately and adjust properly according to its severity.



The device can detect the apnea event (OSA or CSA) and adjust the pressure flexibly.

Comfort Features



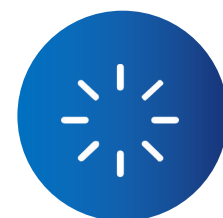
Pre-heating

When enabled, the pre-heating function initiates a 20-minute warm-up upon pressing the start button, after which the device automatically switches to therapy mode. This enhances initial comfort and helps minimize condensation and dryness.



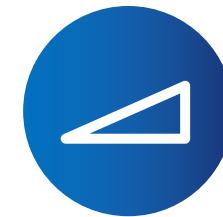
Auto ON/OFF

The device automatically starts when it detects breathing and stops when the mask is removed. Both features can be turned on or off by the user. Default settings: Auto ON – ON, Auto OFF – OFF.



IPAP/EPAP Sensitive

Available in BPAP-S, BPAP-AutoS, and BPAP-ST modes, this feature enables the device to respond more precisely to the patient's breathing effort, enhancing synchrony and overall comfort.



Auto Ramp

To promote more comfortable and natural sleep, the device gradually increases pressure from the initial level to the prescribed therapy level. The rise time is adjustable from 0 to 60 minutes in 5-minute increments, with a default of 30 minutes.



EPFlex

Available in CPAP and APAP modes, the EPFlex feature reduces pressure during exhalation, providing a more comfortable breathing.



Adjustable Humidification

The humidifier offers OFF and levels 1–5 to accommodate various environmental conditions. Users can make adjustments through the settings menu or by simply rotating the knob on the device interface.

Performance Features



Auto Leak Compensation

Advanced flow sensors and a unique acquisition unit detect even minimal airflow. The patented SAF algorithm precisely calculates real-time leaks, ensuring accurate leak compensation to maintain the required tidal volume delivery.



Altitude Compensation

Built-in sensors and intelligent algorithms detect ambient pressure changes to provide altitude compensation. This ensures accurate pressure delivery across varying altitudes, maintaining therapeutic efficacy.

Multiple Ways to Access Therapy Data

The system provides multiple data access options: (1) direct on-device viewing, (2) SD card data analysis via TopScan software, or (3) wireless access through the companion app.

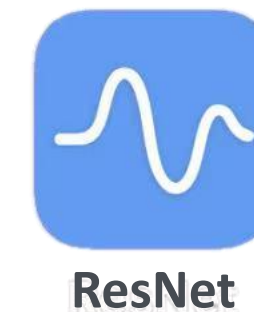
These integrated solutions facilitate both real-time monitoring and comprehensive therapy evaluation.



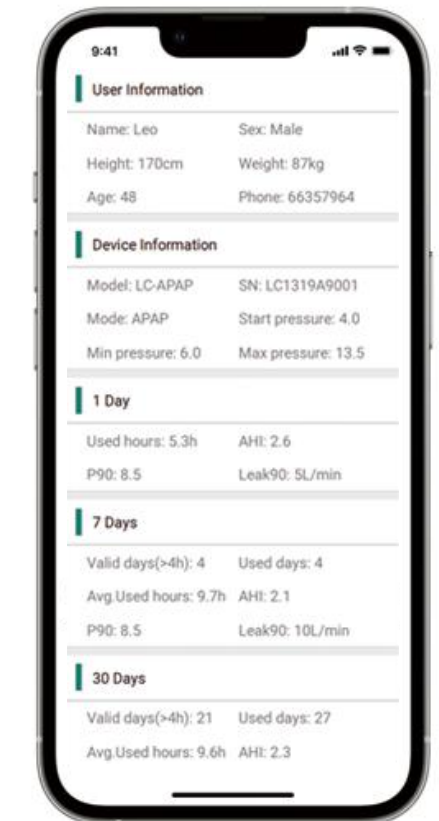
✓ directly on device



✓ TopScan software



✓ Mobile App: ResNet



TopScan Software and ResNet APP can be downloaded from www.topsonmed.com--Support--Download Center

For Clinical Use – Treatment Parameters

To access the treatment parameter settings, simultaneously press and hold both the knob and Ramp button for 3 seconds.

Mode	APAP
Star pressure	4.0
Min pressure	7.0
Max pressure	12.0

Pressure unit	cmH2O
EPFlex	3
EPFlex time	Full time
Alam settings	...

Examples for Mode and Parameters Setting

Leak	OFF
Patient disconnect	OFF
Apnoea	OFF
Low MV	OFF

Low MV	OFF
Hight pressure	OFF
Hight Res.Rate	OFF
Back	

Examples for Alarms Setting

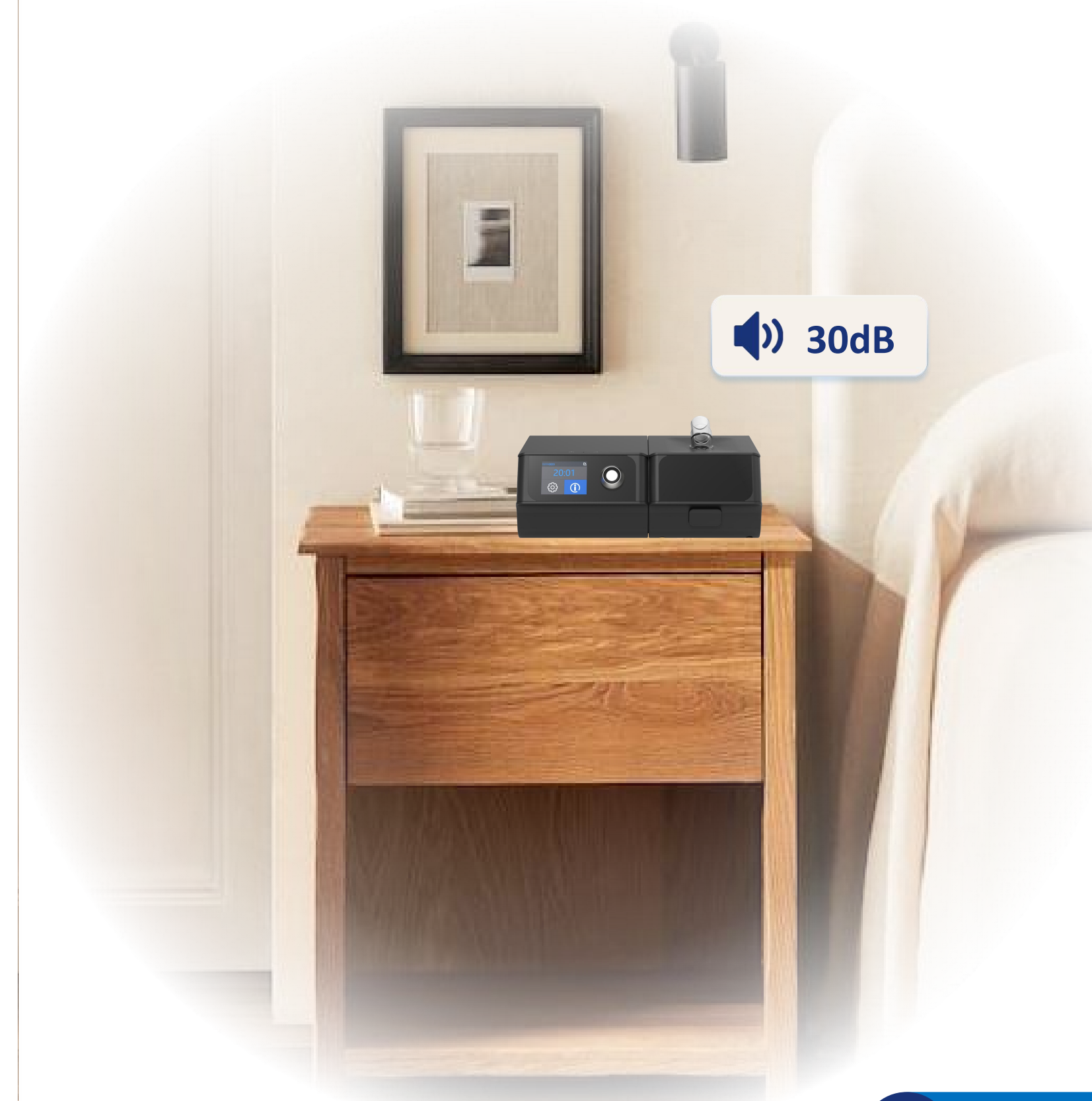
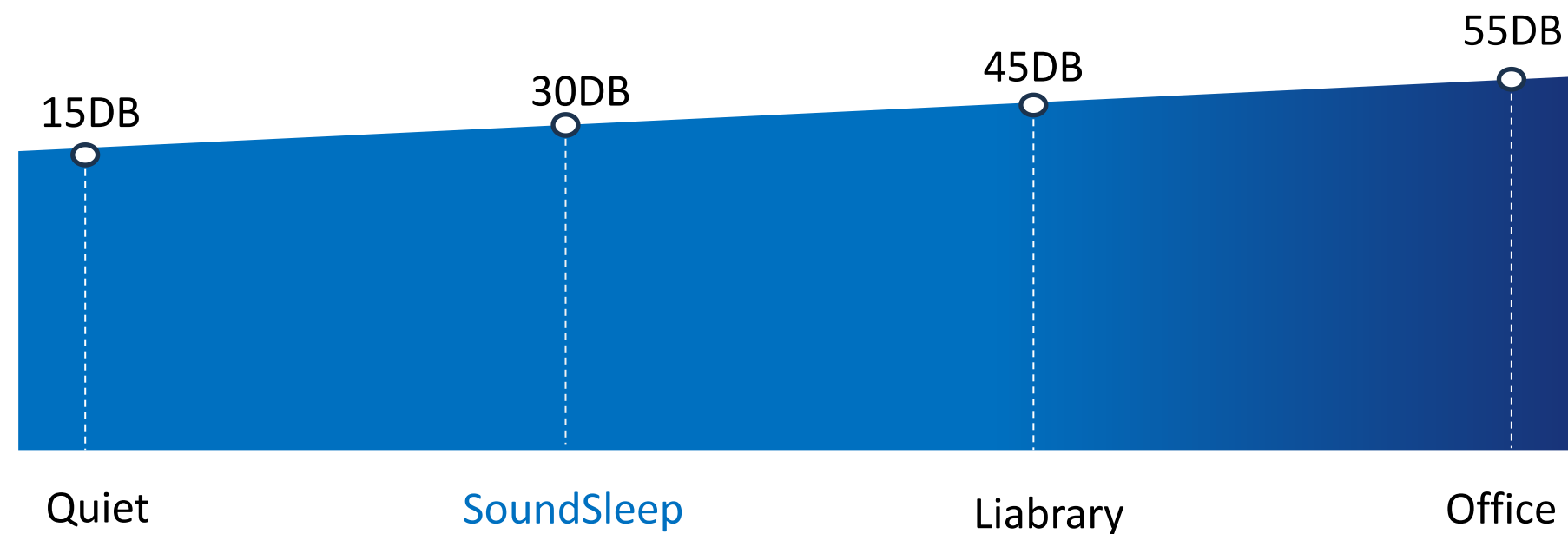
Treatment Parameters

Start Pressure	I sensitive	Rise time(ms)
Treat Pressure	E sensitive	Fall time(ms)
Max Pressure	Back RR	Res.Rate
Min Pressure	EPFlex	Start EPAP
IPAP	EPFlex time	Max Ti(s)
Min IPAP	Leak Alert	Min Ti(s)
Max IPAP		Ti(s)
EPAP		

Quiet Performance

Five-Layer Noise Reduction for Undisturbed Sleep

Advanced multi-stage noise control minimizes operating noise, ensuring a peaceful and restful night.



Comprehensive Alarms

High priority

Device failure

Patient disconnect

Sleep apnea

Medium priority

Low BPM

High pressure

High Res. Rate

Leakage

Low priority

Reinsert SD card

SD card storage full

SD card missing

Reset time

Filter change

Warranty & Technical Support

- ✓ Long warranty: 3 years for main unit, 1 year for humidifier, 90 days for mask

Long warranty: 3-years warranty makes client

- ✓ Free spare parts: 2% spare parts value automatically included with every order
- ✓ Hassle-free replacement: Immediate replacement for any defective unit within the first year
- ✓ Cutting-edge online training: Helping your service staff become certified product experts
- ✓ Detailed maintenance videos: Demonstrating expert techniques used at our factory

Part 4

Operation Introduction



Operation Guide

✓ Installation

- Connect humidifier to device → Fill water tank with distilled water → Connect tube and mask → Connecting power line

✓ Parameter setting

- From standby interface, access settings menu
- Rotate knob to highlight target parameter and press to select
- Rotate knob to adjust parameter value, then press to confirm
- Select "Back" and press knob to return to standby interface

✓ Start treatment

- Securely position mask on patient
- Press Start/Stop button  to start therapy

✓ Stop treatment

- Press Start/Stop button , or remove mask to activate Auto-OFF function
- Disconnect power adapter

Cleaning and maintenance

✓ Daily cleaning

- **Mask & headgear:** Follow manufacturer's instructions in User Manual
- **Water tank:** Remove tank from device → Fill with clean water (add mild detergent/vinegar if needed) → Soak 15 minutes → → Discard solution, gently rinse and wipe → Repeat steps 2-3 times → Air-dry completely.  **CAUTION:** Never submerge heating plate

✓ Weekly cleaning

- **Shell:** Power off and wipe exterior surfaces with soft, damp cloth
- **Tube:** Disconnect from device → Wash with warm water and mild detergent → Rinse thoroughly under running water → Put in shaded, ventilated area to air-dry for ≥30 minutes → Verify complete dryness before reconnection

✓ Filter replacement

- The filter should be replaced once every 6 months at least. (Poor air quality may shorten its lifespan. Replace filter if damaged or cracked.)

 **CAUTION:** The filter can only be replaced and cannot be cleaned.

Software Download Guidelines

Visit Website

Open your browser and enter <https://www.topsonmed.com/html/web/en/service/download/index.html> for downloading.

Enter Password

Click the download button under [ResNet] & [TopScan], input the password "topsonmed" to download the software.

TOPSONMED®

+ Thank You

For Your Attention

www.topsonmed.com

