

# TAKSTAR® 得胜

## MX1 mini SET

### 直播声卡套装

LIVE BROADCAST SOUND CARD SET



使用手册 User Manual

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## ■ Preface

Thank you for purchasing TAKSTAR MX1 mini SET live broadcast sound card system. Please read the user manual carefully before operation and keep it for reference in future.

If you have any question or suggestion, please contact our local dealer.

## ■ Brief introduction

MX1 Mini Set System is tailored for webcast Karaoke. It consists of sound card, condenser microphone, earphone, stand and accessories. The sound card features built-in Li-ion battery, 9 sound effects and 9 host voice effects, compatible with smart terminals, e.g. cell phone/iPad, compact design, easy operation. The microphone features omni-directional cartridge, high sensitivity, clear and natural sound. The earphone is tailored for monitoring. Ø9.2mm high resolution driver unit reproduces rich sound details. Alloy case is designed for convenient carrying.

## ■ Features

### MX1 mini sound card

- Tailored for webcast/Karaoke, suitable for cell phone/iPad/PC
- Built-in DSP, 9 sound effects switching, easy operation
- Mic HF/LF adjustment for various vocal or mic sound
- Press one button to switch singing mode to chatting mode
- Press one button for autotune, 12 autotunes for accurate and easy singing
- Press one button for ducking function
- Bluetooth function playing music without the trouble of cable connection
- Nine host sound effects to promote funny atmosphere
- Smart noise reducing to shield picking up ambient noise for pure singing
- Li-ion battery, about 7h operation time, charging during operation

## PCM-5580 condenser microphone

- Omni-directional cartridge, high sensitivity, clear and natural sound
- Low output impedance more effectively matching with sound card for high quality recording
- Windscreen foam eliminates pop noise
- 1.5V—5V DC power supply, plug and play

## TS-2260 earphone

- Ø9.2mm high resolution driver unit reproduces rich sound details
- Even and accurate sound, tailored for monitoring
- Ergonomic design, reliable and comfortable wearing

## ■ Product content

MX1 mini sound card	1 pc
PCM-5580 condenser microphone	1 pc
TS-2260 earphone	1 pc
Ear pad (S/M/L)	3 pairs
Stand	1 pc
Mic clip	1 pc
Audio cable (Φ3mm*1.2m)	2 pcs
Type-C data cable(Φ4mm*1.5mm)	1 pc
Mic cable	1 pc
Al alloy case	1 pc
User manual	1 pc

## ■ Application

Cell phone/iPad/PC: Karaoke, webcast, recording  
Suitable for entertainment webcast APP and influencer marketing

## ■ System compatibility

Compatible with iOS/Android/windows

## ■ Specification

### Sound Card Specification

Data Transmission:USB2.0

Sample Rate:48KHz/16bit

Frequency Response:20Hz-20KHz

THD:THD<0.5% 1KHz

Headset Output Power:125mW/32Ω

Headset S/N Ratio:90dB (A-Weighted)

Bluetooth Version:V4.2

Main Chip:DSP

Reverb Mode:Reverb

Autotune:12 kinds of Autotunes

EQ:EQ

Battery Type:Li-ion battery

Battery Capacity: 1000mAh

Charging:USB 5V=700mA

Charging Time:approximate 2.5h

Charging Time:approximate 7h

Audio Connector: headset mic connector  $\Phi$ 3.5mm,  
mic connector  $\Phi$ 3.5mm  
accompaniment connector  $\Phi$ 3.5mm  
cell phone connector  $\Phi$ 3.5mm

Power Supply Connector:Type-C connector

Dimension:111\*65\*12mm(L\*W\*H);

Net Weight:approximate 115g

## Microphone Specification

Cartridge: condenser

Polar Pattern: omni-directional

Frequency Response: 30Hz-20kHz

Sensitivity:  $-36\text{dB} \pm 3\text{dB}$  ( $0\text{dB}=1\text{V}/\text{Pa}$  at 1KHz)

S/N Ratio:  $\geq 57\text{dB}$  (A-Weighted)

Peak SPL: 110dB (THD  $\leq 1\%$  at 1KHz)

Output Impedance:  $2.2\text{K}\Omega \pm 30\%$  (at 1KHz)

Operation Voltage: DC = 3.3/5V

Dimension:  $\Phi 47 \times 188\text{mm}$

Net Weight: approximate 290g

## Headset Specification

Type: dynamic stereo headset

Unit Dia:  $\Phi 9.2\text{mm}$

Unit Impedance:  $18\Omega \pm 15\%$

Frequency Response: 20Hz~20KHz

Sensitivity:  $95 \pm 3\text{dB SPL}$  ( $94\text{dB SPL}=1\text{Pa}$ )

at 1KHz with input=0.126V(1 mW)

Peak Power: 5mW

Rated Power: 3mW

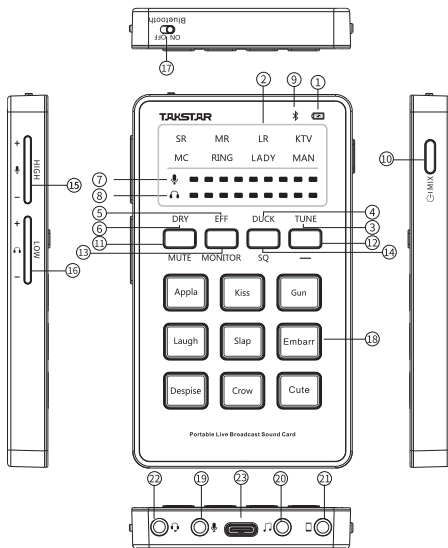
Cable:  $\Phi 2.3\text{mm} \times 2\text{m}$

Connector:  $\Phi 3.5\text{mm}$  three conductor gold plated connector

Net Weight: approximate 13g

Note: the above data is obtained from the test of Takstar laboratory, and Takstar has the final interpretation right!

## ■ Function instruction



- ① Power LED: when the power is off and not charged, the LED lights off. When the power is charged, the LED lights up green. When the power is not sufficient, the LED lights up red. During the charging process, the LED flashes red. When it is fully charged, the LED lights up green.
- ② Sound effect LED: 8 sound effect LEDs. Select one effect, and the relative LED lights up blue.
- ③ Autotune LED: when the autotune is turned on, the LED lights up blue. When off, the LED lights off.
- ④ Ducking LED: when ducking is turned on, the LED lights up blue. When off, the LED lights off.

- ⑤ Sound effect LED: when the sound effect is turned on, the LED lights up blue. When off, the LED lights off.
- ⑥ Original sound LED: when the original sound is turned on, the LED lights up blue. When off, the LED lights off.
- ⑦ Microphone volume/mic HF LED: totally 9 levels, 1-5 level green, 6-7 level orange, 8-9 level red. During webcast, the LED meter changes according to the mic volume level change. Adjust mic volume “+” “/ -”, and LED lights up or off one by one according to the volume level. Adjust mic HF “+” “/ -”, and LED lights up or off one by one according to HF volume level.
- ⑧ Headset volume/mic LF LED: totally 9 levels, 1-5 level green, 6-7 level orange, 8-9 level red. During webcast, the LED meter changes according to the mic volume level change. Adjust headset volume “+” “/ -”, and LED lights up or off one by one according to the volume level. Adjust mic LF “+” “/ -”, and LED lights up or off one by one according to LF volume level.
- ⑨ Bluetooth LED: Display Bluetooth status. When the Bluetooth light is turned on, the LED flashes to wait for matching. When the Bluetooth is successfully matched, the LED keeps lighting up. When the Bluetooth is turned off, the LED lights off.
- ⑩ Power/mix button:
  - a. Keep pressing power/mix button for 2 seconds to turn on/off the sound card, LED light up back and forth.
  - b. When the sound card is turned on, press the power / mix button to turn on/off mix function. When the mix function is turned on, the voice prompt “mix on”. The PC music can be sent to the webcasting platform (that is, the netizens can hear the music played on your computer). When the mix function is turned off, the voice prompt “mix off”, the music played on the computer will not be sent to the computer webcasting platform (that is, the netizens can not hear the music played on your computer).



Note: when using in the free chat mode of the computer live broadcasting platform, please turn off the mix function, otherwise netizens in the webcasting room will hear double sound. In other modes, please turn on the mix function, otherwise the accompaniment played by the computer will not be sent to the webcast room.

⑪ Dry/mute button:

a. The effect has the function of memory and saving. In the state of sound effect and autotune effect status, click the dry sound button to switch to the dry sound effect, and then press dry button again to switch back to sound effect.

b. Press dry/mute button for 2 seconds to turn on/off mute function, and there is relative sound prompt. In on status, the sound prompts “mute”. In off status, the sound prompts “unmute”

⑫ Tune button:

In sound effect or dry sound effect, press tune button to switch to autotune effect. In autotune status, press tune button to switch to 12 autotunes, and there are relative sound prompts. They are respectively: They are respectively: C major, D flat major, D major, E flat major, E major, F major, G flat major, G major, A flat major, A major, B flat major, B major.

⑬ Effect/monitor button:

a. Press this button to switch 8 sound effects.

b. Press this button for 2 seconds to turn on/off the monitoring function. The factory setting is that the monitoring function is turned on. Turning off the monitoring function is suitable for online chatting and some special applications. When it is on, the sound prompts “monitor on”. The headset can monitor the microphone sound, When it is off, the sound prompts “monitor off”. The headset can not monitor the microphone sound.

- ⑭ Duck/SQ button
  - a. Press this button to turn on/off the duck function. When on, the background music volume decreases.
  - b. Press this button for 2 seconds to turn on/off squelch function, and there is sound prompt “Squelch on”. It shields the picking up of ambient noise to make the singing purer. When squelch is off, there is sound prompts “Squelch off”, the microphone goes back to the normal picking up status.
- ⑮ Microphone vol/mic HF button:
  - a. Totally 9 microphone volume levels. Press + to increase the microphone volume, and meanwhile the volume meter goes up, and vice versa.
  - b. Totally 9 microphone HF levels. Press + to increase the microphone HF volume, and meanwhile the volume meter goes up, and vice versa.
- ⑯ Headset vol/mic LF button:
  - a. Totally 9 headset volume levels. Press + to increase the headset volume, and meanwhile the volume meter goes up, and vice versa.
  - b. Totally 9 mic LF levels. Press + to increase the mic LF volume, and meanwhile the volume meter goes up, and vice versa.
- ⑰ Bluetooth switch: set it to ON to turn on the Bluetooth and OFF to turn off it. Please refer to the Bluetooth matching section for the matching method.
- ⑱ Host sound effect: totally 9 host sound effects, they are: applause, kiss, machine gun, laugh, slap, embarrassment, despise, crow, cute. Each effect button has LED. When this effect is on, the LED flashes continuously. When this effect is off, the LED keeps lighting up. When the effect is on, press this button again to stop this effect.

- ⑲ Microphone connector: linking with microphone of  $\Phi 3.5\text{mm}$  connector and providing 3.3V voltage, compatible with dynamic microphone and condenser microphone without power supply.
- ⑳ Accompaniment connector: linking with external audio source via audio cable to play accompaniment.
- ㉑ Cell phone connector: linking with cell phone or iPad of webcast or Karaoke via audio cable.
- ㉒ Headset connector: it is compatible with headset of 3 or 4 conductor plug.
- ㉓ Type-C connector: it charges the sound card via USB data cable. Furthermore, MX1 mini has built-in digital chip, supporting OTG function. It can realize no loss digital transmission by connecting USB data cable with computer or cell phone, and the system identifies sound card automatically, plug and play. Please refer to the operation section for the details.

## ■ Operation instruction

### A. Download software

1. Download webcast or recording APP from cell phone/PC APP market.
2. Or download APP from webpage. Please pay attention to the right version for cell phone or PC.

### B. Cell phone webcast / Karaoke

1. Connect headset with  $\Phi 3.5\text{mm}$  headset connector of the sound card.
2. Two ways to connect sound card with cell phone: one is to analogue signal connection way via  $\Phi 3.5\text{mm}$  connector, the other is digital signal connection way via Type-C connector. The digital way has better recording quality and clearer sound, higher fidelity.

① Connect the cell phone  $\Phi 3.5\text{mm}$  headset connector with the cell phone connector of the sound card via audio cable. If the cell phone has no headset connector, use OTG cable for the connection (buy OTG adapter additionally).

② Connect sound card Type-C connector with cell phone data connector via data cable. iPhone needs the relative accessories. Android cell phone needs USB to Type-C adapter (buy the adapter additionally).

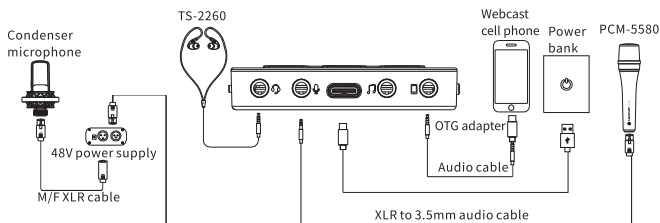
3. Connect the microphone with the mic connector of sound card. If you need 48V condenser mic, connect the mic with phantom power, and then with the mic connector of sound card.

Note: if you need to charge the sound card during operation, it is recommended to use power bank to charge it. If you use adapter to charge, it leads to noise.

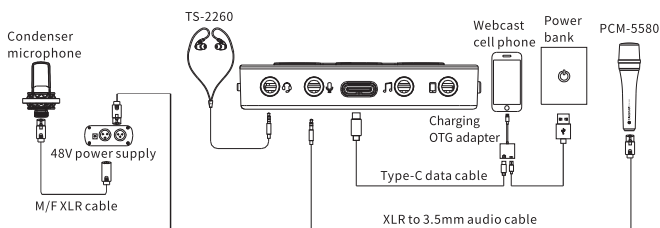
4. Turn on the sound card, and turn on cell phone Karaoke or webcast APP for Karaoke or webcast.

Note: it is recommended to use iPhone accessories or supplied Type-C adapter, otherwise you will have the compatibility problem.

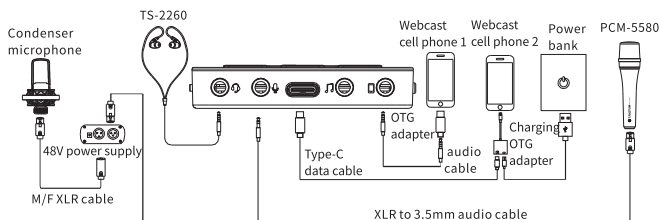
## Φ3.5mm connection diagram



## OTG connection diagram



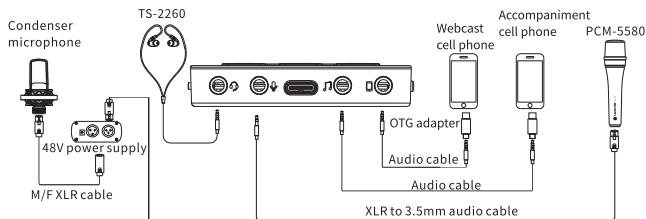
## Dual cell phone webcast diagram



## C. Connecting with accompaniment cell phone

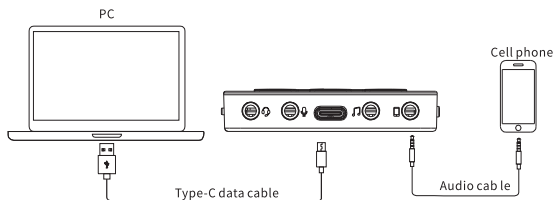
The sound card has accompaniment connector to link with another cell phone to play accompaniment to solve the problem that some cell phones have no accompaniment connector or are inconvenient to play a accompaniment.

1. Connect relative equipment according to the way of cell phone Karaoke.
2. Connect accompaniment cell phone with the accompaniment connector of sound card via audio cable.
3. Turn on the sound card, and turn on the webcast APP. Use the accompaniment cell phone to play accompaniment for you webcast.

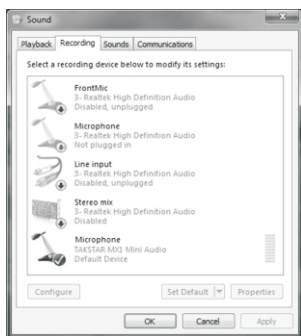


## D. PC and cell phone webcast simultaneously

1. Connect relative equipment according to the way of cell phone Karaoke.
2. Use Type-C data cable to connect the sound card with PC. The PC will identify the sound card and install the driver.

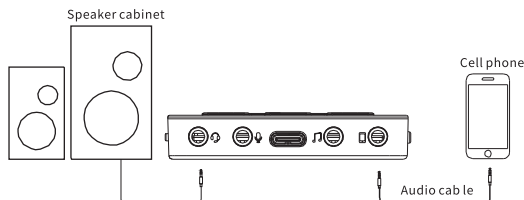


4. Set “TAKSTAR MX1 mini Audio” as the default equipment.
5. Turn on the PC and cell phone live broadcast software for PC and cell phone webcast simultaneously.



## E. Speaker cabinet Karaoke

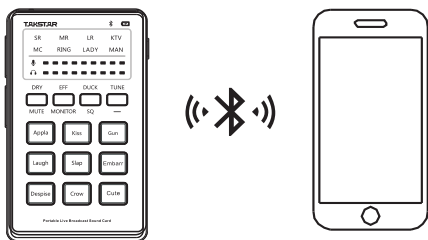
The connection of speaker cabinet Karaoke is the same as that of the cell phone webcast. Just change the headphone to the active speaker cabinet. Note: to avoid feedback, it is recommended to use dynamic microphone or headphone microphone but not condenser microphone. Furthermore, keep the microphone cartridge against the active speaker cabinet and keep to a proper distance, and decrease the microphone volume and speaker volume.



## F. Bluetooth matching

If it is the first time to used Bluetooth, you need to match the Bluetooth according to the steps as below:

1. Set the Bluetooth switch to ON, and the relative LED flashes, and there is sound prompt “Bluetooth on, waiting for matching” .
2. Enter into the “Settings” menu of the cell phone, and find the Bluetooth function option, and turn on the blue function of the cell phone. When it searches “TAKSTAR MX1 mini”, click “TAKSTAR MX1 mini” to connect. When the sound card voice prompts “Bluetooth connected”, at the same time, the Bluetooth LED lights up again. This means that the Bluetooth connection is successful.
3. The next time you turn on sound card, if you have already matched the Bluetooth, and the Bluetooth is set to the “on” position, it will automatically connect back to the last used Bluetooth device, and there is sound prompt “Bluetooth connected”;
4. Set the Bluetooth switch to OFF, and its LED lights off, and there is sound prompt “Bluetooth off”. If the cell phone disconnects with Bluetooth, there is sound prompt “Bluetooth disconnected”. The LED turns to flashing status.



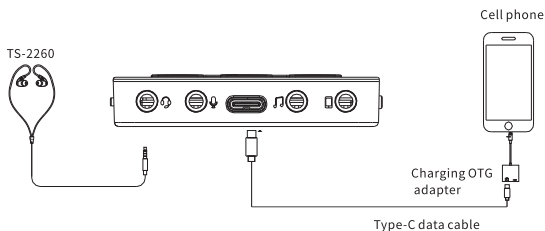


## G. OTG compatible mode

MX1 mini sound card can be directly connected with iPad and iPhone via USB to realize HD lossless recording, live broadcast, music appreciation and other operations.

If the iOS system version is too low, incompatibility may occur, depending on the iOS system version. We strongly recommend to buy the original iPad/iPhone camera kit. If the rear panel of the iPad and iPhone is equipped with a protective enclosure, the plug of the camera kit may be loose or in poor contact. If this problem occurs, please remove the protective enclosure. If the sound card is not compatible with the connected iPad or iPhone device, the iPad or iPhone will detect an incompatible USB device and display “unusable device ---- the connected USB device is not supported”. In a later version of iOS, the device name is displayed after the connection. Or due to different iOS versions, some APPs may not be able to use or it may only record to one channel sound.

Note: MX1 mini sound card can also be compatible with some Android cell phones through USB. There are too many Android cell phone brands and system versions in the market. That the models can be compatible depends on the actual application. You can test by yourself. It is inconvenient for us to recommend.

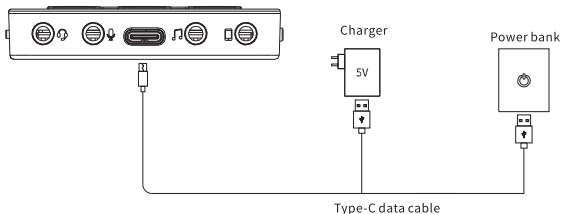


## H. Charging instruction

1. The sound card can be connected with power bank or PC USB or power adapter for charging.
2. Turn on the power switch of the sound card. If the power LED is not on, it means the sound card has no power supply. If the power LED does not light up red, it means the sound card has no sufficient power and needs to be charged in time.
3. During charging, that the power LED flashes red, this means the sound card is being charged. After being fully charged, the power LED keeps lighting up green. Use 5V DC to charge, below 700mA current. It takes about 2h to charge fully. After charging fully, please stop charging to avoid over-charging.

Note: for the first time operation, it is recommended to fully charge the battery first. It can be charged during operation or in the off state. If it will not be used for a long time, charge the sound card once every half a year to avoid over discharge of the battery, which will affect the battery performance.

Note: select the adapter specification: DC = 5V 1A; 5V = 1.5A; 5V = 2A.



## ■ Trouble shooting

### **A.LED does not light up after the sound card is turned on.**

1. Check if the sound card has sufficient power. Try to recharge it and then use it.

### **B.No sound when playing music**

1. Check if the sound card has been connected well. Reconnect and then try it.
2. Check if the headphone has connected well. Reconnect and then try it.
3. Check if the cell phone has played sound normally, or exit the software, turn on it to play again and check the result.

### **C. Microphone or headset mic has no sound**

1. Check if the sound card has been connected well. Reconnect and then try it.
2. Check if the volume of sound card microphone or earphone mic is set too low, and adjust the volume of microphone to see if it returns to normal status.
3. Check if the monitoring function of the sound card is turned off. Turn on it please.

### **D. The recording sound has no effect**

1. Check if the sound card has been connected with cell phone or PC well. Reconnect and then try it.
2. Check if the recording cell phone is wrongly connected with the accompaniment connector of the sound card. Reconnect the cable with the cell phone connector of the sound card and then check the result.

### **E.The microphone sound can not be recorded or the recorded sound volume is too low.**

1. Check if the sound card has been connected with cell phone or PC well. Reconnect and then try it.
2. Check if the mic volume of the recording software is set to too low level. Adjust it and then check the result.

## **F. The headset has feedback**

1. Check if the mic or headset mic has been connected well.  
Reconnect and then try it.
2. If the cell phone has monitoring function, please turn off the monitoring function of APP.

## **G. PC webcast has two sound**

1. In free chatting mode, the mixing function will send your counterpart voice to you and then to the platform. This leads to two voices in the platform. Please disable the mixing function in free chatting mode.

## **H. Cell phone webcast has two sound**

1. Some cell phones APPs have no turning off function for monitoring, This leads to two mic monitoring voices during webcast. If so, set the cell phone volume to minimum level.

## **■ Safety instructio**

To avoid electric shock, over temperature, catching fire, explosion, mechanical risk and hurt or property loss caused by improper use, please read the following items carefully before operation:


1. Adjust the volume to proper level during operation. Do not operate at high volume level to avoid hearing loss.
2. If abnormal phenomenon (smoke, abnormal smell) happens, please turn off the power switch and disconnect the power plug with power socket, and send the product to local dealer for maintenance.
3. The product and accessories should be put in dry and ventilated place rather than humid or dusty environment. Prevent the product from fire, liquid, rain, water, over-colliding, throwing, vibrating, vent hole covered to avoid function destroyed.

- 4.The product shall not be subject to water drops or splashes, and items containing liquid such as vases shall not be placed on the product.
- 5.When cleaning the equipment, use soft dry cloth, do not use paint thinner, solvent, cleaning solution or cloth soaked with chemicals.
- 6.Please abide by safety rules during operation. Do not use the product in the place prohibited by regulation or law to avoid accident.
- 7.Do not disassemble or repair the product by yourself to avoid hurt. If you have question or need service, please contact the local dealer.
- 8.Only use the accessories designated by the supplier.

## ■ The meaning of Icon

### Bluetooth®

This symbol indicates that the product has passed the BQB certification of Bluetooth SIG company, namely Bluetooth certification. The product meets the requirements of BQB certification.

 According to the test results of RL2004 / 108 / EG and European Low Voltage Directive RL2006/95/EG, this product conforms to the limit values stipulated in the directive of the European Community on the integration of the laws of the member states on electromagnetic compatibility



This symbol indicates that according to the WEEE Directive (2012 / 19 / EU) and national laws, this product should not be disposed of with your household garbage, and should be handed over to the authorized recycling station of electricity and electricity equipment (WEEE) for recycling, because this type of waste will have potential harmful substances, which may have negative impact on the environment and health products. At the same time, when you handle this product correctly, it will help to effectively help the use of natural resources. For more information on where you can place your waste recycling equipment, please contact your local city office, Waste Management Bureau or household waste treatment service department.

## ■ About this user manual

For more information, please visit our website:  
<https://www.takstar.com/>. Takstar reserves the final interpretation right!

## 产品服务保证书

姓名：\_\_\_\_\_ 电话：\_\_\_\_\_ 地址：\_\_\_\_\_

商品：\_\_\_\_\_ 型号：\_\_\_\_\_ 购买日期：\_\_\_\_\_ 年 \_\_\_\_\_ 月 \_\_\_\_\_ 日

维修记录栏 (由维修员填写)	维修员签名	日期

### 注意事项：

1. 本单为保修凭证，请用户妥善保管，如有遗失，恕不保修或退换。
2. 保修期限制：购买之日起十二个月内。
3. 除了不可抗力事件损坏外，由本公司负责，免费维修。
4. 如属保管不善或使用不当造成的损坏，维修点将酌情收费。
5. 擅自拆卸维修者，不予保修。
6. 以上保修条款仅限于中国市场适用（不含港澳台地区）。









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