TAKSTAR® 得胜




# PM6 | 话筒放大器
Microphone Preamp

使用手册 | User Manual

## ■ 前言

尊敬的用户：

感谢您选购得胜PM6话筒放大器，为了您能够更好地了解使用本产品，建议您在使用前仔细阅读本说明书。

若存在有疑问或者您有宝贵的建议，可通过拨打得胜官方服务热线400 6828 333或微信扫描二维码关注得胜官方公众号与我们联系。

## ■ 产品特性

- 低噪声轨到轨运放电路，宽频响、高动态，提供高保真的音色；
- 15dB/25dB两档麦克风增益，轻松推动不同灵敏度、不同阻抗的麦克风；
- DC 48V升压整流电路，保障电压的稳定输出，兼容各类48V电容麦克风；
- 更低的输出阻抗，可胜任高标准、长距离的信号传输要求；
- 采用低通滤波电路，有效滤除射频干扰和噪声，确保信号纯净；
- XLR+6.3mm输入、XLR输出接口，平衡与非平衡设计，确保信号传输稳定；
- 精致小巧铝合金机身，阳极氧化处理，防刮耐磨，方便携带；
- 内置1500mAh锂电池，超长续航，支持边充边用。

## ■ 适用范围

直播K歌、专业录音、户外演出、会议工程等场景

## ■ 标准配置

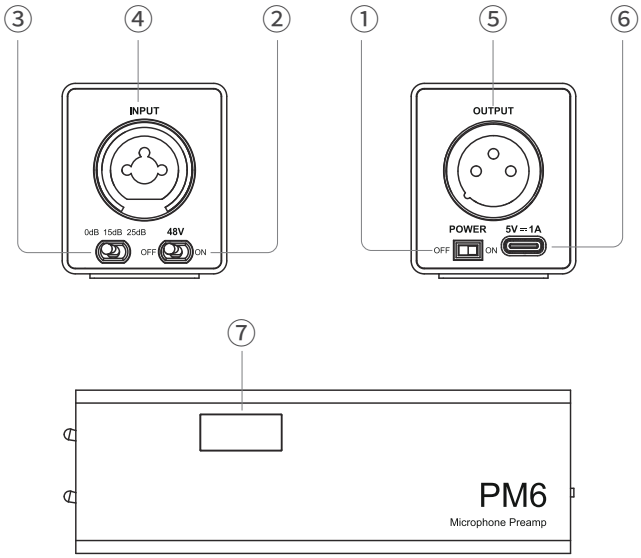
PM6 话筒放大器.....1个
充电线.....1条
说明书.....1份

## ■ 技术参数

频率响应: 20Hz-20kHz
增益范围: 15dB/25dB
信噪比: 25dB≥81dB(1kHz 20mVrms)
失真度: <0.03%(1kHz 10mVrms)
供电: 48V 幻象供电
动态范围: 0dB≥100dBV(348mV 1kHz THD+N≤0.5% A加权)
15dB≥90dBV(90mV 1kHz THD+N≤0.5% A加权)
25dB≥80dBV(25mV 1kHz THD+N≤0.5% A加权)
输入接口: XLR+Φ6.35mm平衡/非平衡输入
输入阻抗: 2.2KΩ
输出接口: XLR平衡输出
输出阻抗: 100Ω
电池类型: 锂离子电池
充电方式: 5V⎓1A
电池容量: 1500mAh
充电时间: 约2小时
使用时间: 约13小时 (48V开启)
约70小时 (48V关闭)
尺寸: 115mm*38mm*44mm(长*宽*高)
净重: 约185g

以上数据由得胜实验室测试得到，并拥有最终解释权!

## ■ 功能示意



① 电源开关：拨到“ON”位置为开启电源，拨到“OFF”位置为关闭电源；
② 48V开关：拨到“ON”的位置为开启48V供电，拨到“OFF”位置为关闭48V供电。当连接需要48V供电的电容麦克风时，请打开48V开关，否则关闭48V开关；
③ 增益调节：0dB/15dB/25dB三档麦克风增益调节；
④ INPUT输入接口：XLR+Φ6.35mm合并式接口，连接麦克风，当连接需要48V幻象供电的麦克风时，请使用XLR卡侬接口；
⑤ OUTPUT输出接口：标准XLR卡侬输出接口，连接声卡、调音台、户外音箱等音频设备；
⑥ Type-C充电接口：通过附赠的充电线给“PM6话筒放大器”充电，支持边充边用；
⑦ 电量指示灯：电量符号有4格，每格代表25%电量。

温馨提示：连接声卡、调音台等音频设备使用时，请务必关闭设备上的48V开关，如麦克风需要48V供电的，可以开启PM6话放上的48V开关。

## ■ 使用说明

若您的动圈麦克风灵敏度较低，并且您的声卡、调音台或音箱等音频设备话放推力太小，不能很好的发挥出麦克风应有的音质水平，通过连接“PM6 话筒放大器”，可以解决这一困扰，并且“PM6 话筒放大器”采用了轨到轨运放电路，具有宽频响、高动态、低噪声等特点，可以轻松推动各类麦克风，同时还能将麦克风完美的音色原原本本的展现出来。另外“PM6 话筒放大器”还具备48V幻象供电功能，可以为需要48V供电的电容麦克风工作提供保障。

### 一、连接使用方法

下面以得胜的“MX1 PRO声卡”以及“TA-68专业动圈麦克风”为例，讲诉“PM6 话筒放大器”的连接使用方法：

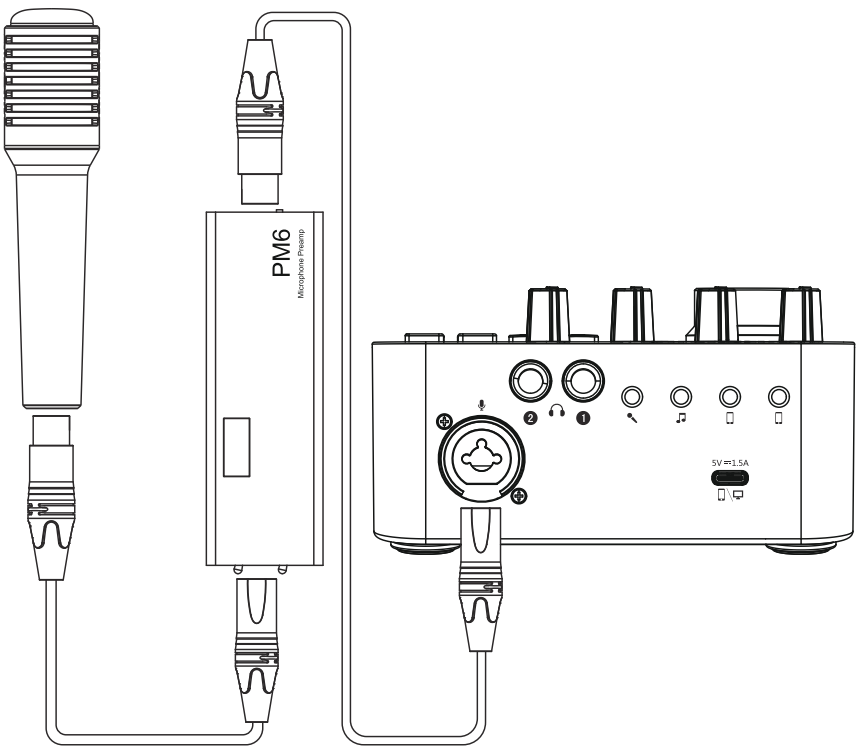
1、首先将“PM6 话筒放大器”与”TA-68麦克风”连接。通过得胜的“C3-2公母卡侬线”（线材需自行另购）的卡侬母头一端连接“TA-68麦克风”，公头一端连接“PM6话筒放大器”的INPUT输入接口；

2、将“PM6话筒放大器”与“MX1 PRO声卡”连接。通过“TA-68”

附赠的麦克风线的卡侬头一端连接“PM6话筒放大器”的OUTPUT输出接口，Φ6.3mm插头一端连接“MX1 PRO声卡”的麦克风接口；

3、将“MX1 PRO声卡”麦克风音量调到中间位置，将“PM6话筒放大器”增益打到15dB位置；

4、为了减少电流冲击对设备造成损害，请先打开“PM6 话筒放大器”电源开关，再打开声卡开关；关机时，请先关闭声卡开关，再关闭话放开关。开关机间隔建议超过5秒，确保设备逐步进入稳定状态。




C3-2公母卡侬线　C3-2公母卡侬线

提示：调音台、音箱的连接方法类似，此处不再赘述

**二、充电说明**

1. 开启话放电源开关，电源指示灯最后一格红灯闪烁时，说明电源电量不足，需及时充电；

2. 使用附赠的Type-C充电线连接适配器进行充电。充电时，电量指示灯逐格点亮绿灯，表示正在充电中；充满电后，电量指示灯满格显示；使用5V⎓1A直流电源充电，约2小时即可充满；当电池电量充满时， 请停止对电池充电，避免电池过充；

3. 初次使用时，建议先充满电；如长时间不使用，要每半年给“PM6话筒放大器”充一次电， 避免电池过放，对电池性能产生影响；
4. 如果使用过程中出现电量不足的情况时，“PM6话筒放大器”还具有边充边用功能，解决续航焦虑。您可以通过附赠的充电线连接充电宝或适配器，实现边充边用。

## ■ 安全警示

为避免电击、高温、着火、辐射、爆炸、机械危险以及使用不当等可能造成的人身伤害或财产损失，使用本产品前，请仔细阅读并遵守以下事项：
1. 使用产品时请确认所连设备与本产品是否匹配以及合理调整音量大小，不要在超过产品功率及大音量下长时间使用，以免造成产品异常；
2. 使用中若发现有异常（如冒烟、异味等），请立即关闭电源开关并拔掉电源插头，然后将产品送售后服务网点检修；
3. 消费者若使用电源适配器供电，则应购买配套使用获得CCC认证并满足标准要求的电源适配器；
4. 本产品及附件都应放置在室内干燥通风处，请勿长期存放在潮湿、灰尘多的环境，使用中避免靠近火源、雨淋、进水、过度碰撞、抛掷、振动本机及覆盖通风孔，以免损坏其功能；
5. 若产品需要固定于墙壁或天花板时，请确保固定到位，防止因固定强度不足导致产品发生跌落危险；
6. 使用该产品时需遵守相关安全规定，法律法规明确禁止使用场合请勿使用本产品，以免导致意外事故；
7. 请不要自行拆机改装或维修，以防止出现人身伤害，如有问题或服务需求请联系当地售后服务网点跟进处理。

## ■ 关于图标含义解释



此符号表示，根据WEEE指令(2012/19/EU)和国家法律，由于这种类型的废弃物会有潜在的有害物质，可能对环境和人类健康产生负面影响，所以本产品不应与您的家庭垃圾一起处置，应将本产品交由授权的电气和电子设备（WEEE）回收站回收。同时，您在正确处理本产品的同时将有助于自然资源的有效利用。如需了解更多有关您可以在何处放置废物回收设备的信息，请联系您当地的城市办事处、废物管理局或家庭废物处理服务部门。

## ■ 关于本说明书

本说明书中内容符合截止印刷之日的技术规格。由于得胜公司会不断改进产品，本说明书可能不符合您的特定产品的技术规格。要获取最新版说明书，请访问得胜官网，然后下载说明书文件。技术规格、设备或另售的附件在各个地区可能有所不同，如有问题请与当地得胜销售网点确认。如需更多支持和深层产品信息，请浏览得胜官方网站：
https://www.takstar.com

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## 产品中有毒有害物质或元素的名称及含量标识表

| 部件名称 | 有毒有害物质或元素 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬 (Cr(VI)) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) | 邻苯二甲酸二正丁酯 (DBP) | 邻苯二甲酸二异丁酯 (DIBP) | 邻苯二甲酸丁基苄酯 (BBP) | 邻苯二甲酸二(2-乙基)己酯 (DEHP) |
| 塑料部件 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 金属部件 | × | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 电路板组件 | × | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 线缆 | × | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

本表格依据SJ/T 11364的规定编制。

○: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572规定的限量要求以下。

×: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572规定的限量要求。

此标志为产品的环保使用期限标志，

且此标保使用期限只适用于产品正常工作的温度和湿度等条件。



## 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（不包含港澳台地区）。

# 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 |
| --- | --- | --- |
| | | |
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♦广东得胜电声有限公司 ♦电话：400-6828-333 ♦地址：中国广东省惠州市博罗县龙溪街道夏寮村委会大门村夏照（得胜创业园）

## ■ Preface

Dear Customer,
Thank you for purchasing Takstar PM6 Microphone Preamp. In order to better understand and use the product, please read this manual carefully.
If you have any questions or suggestions, please contact our local dealer.

## ■ Features

- Low-noise rail-to-rail op-amp circuit: wide frequency response, high dynamic range, delivering high-fidelity sound.
- 2-level mic gain (15dB/25dB): easily drives mics with different sensitivities and impedances.
- DC 48V boost rectifier circuit: ensures stable voltage output, compatible with all types of 48V condenser mics.
- Lower output impedance: meets requirements for high-standard, long-distance signal transmission.
- Equipped with low-pass filter circuit: effectively filters out RF interference and noise, ensuring pure signal.
- XLR & 6.3mm input, XLR output: balanced & unbalanced design ensures stable signal transmission.
- Sleek, compact aluminum body: anodized finish, scratch-resistant, durable, and easy to carry.
- Built-in 1500mAh lithium battery for long-lasting use, supports charging while in operation.

## ■ Applications

Suitable for live streaming karaoke, professional recordings, outdoor performances and conference systems.

## ■ Package Contents

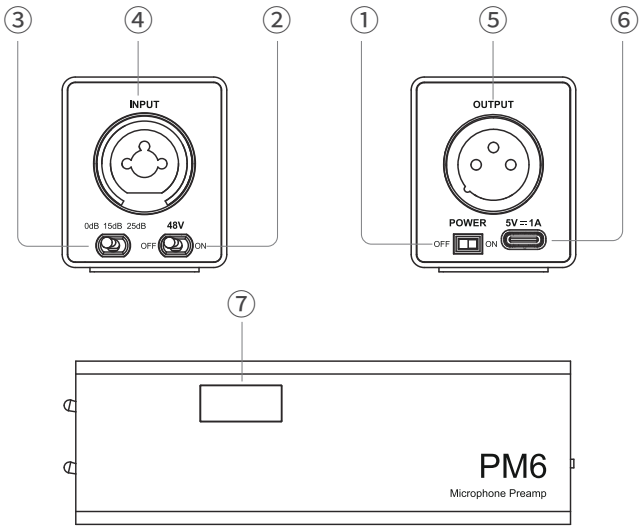
1 × PM6 Microphone Preamp
1 × Charging Cable
1 × User Manual

## ■ Specifications

- Frequency Response: 20Hz-20kHz
- Gain Range: 15dB/25dB
- SNR: 25dB⩾81dB (1kHz, 20mVrms)
- THD: <0.03% (1kHz, 10mVrms)
- Power Supply: 48V Phantom Power
- Dynamic Range:
  0dB⩾100dBV (348mV, 1kHz, THD+N⩽0.5%, A-weighted)
  15dB⩾90dBV (90mV, 1kHz, THD+N⩽0.5%, A-weighted)
  25dB⩾80dBV (25mV, 1kHz, THD+N⩽0.5%, A-weighted)
- Connectors: XLR+Φ6.35mm Balanced/Unbalanced Input
- Input Impedance: 2.2kΩ
- Connector: XLR Balanced Output
- Output Impedance: 100Ω
- Battery Type: Lithium-Ion
- Charging Method: 5V⎓1A
- Battery Capacity: 1500mAh
- Charging Time: Approx. 2 hours
- Operating Time: Approx. 13 hours (48V enabled)
  Approx. 70 hours (48V disabled)
- Dimensions: 115mm × 38mm × 44mm (L × W × H)
- Net Weight: Approx. 185g

Note: The above data are measured by Takstar laboratory which has the final interpretation right!

## ■ Function Descriptions



① Power Switch: Slide to "ON" to power on; slide to "OFF" to power off.
② 48V Switch: Slide to "ON" for 48V power supply; slide to "OFF" to disable. Turn on when connecting condenser mics requiring 48V power supply, otherwise keep off.
③ Gain Adjustment: 3-level mic gain (0dB/15dB/25dB).
④ INPUT Port: Combined XLR & Φ6.35mm port for mics. Use XLR for mics needing 48V phantom power supply.
⑤ OUTPUT Port: Standard XLR output for audio devices (audio interfaces, mixers, outdoor speakers, etc.).
⑥ Type-C Charging Port: Charge the "PM6 Microphone Preamp" with the included cable; supports charging while in use.
⑦ Battery Indicator: The battery icon has 4 bars, each representing 25% battery level.

Note: When using audio devices such as audio interfaces or mixers, be sure to disable the 48V switch on the device. If a microphone requires 48V power, you may enable the 48V switch on the PM6 Microphone Preamp.

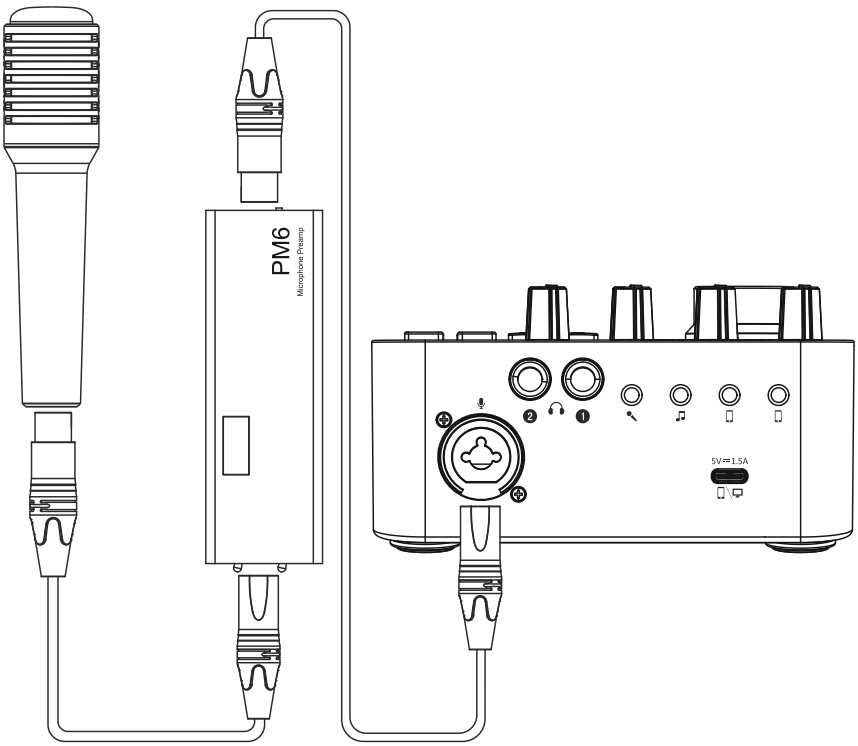
## ■ Operating Instructions

If your dynamic microphone has low sensitivity, and the preamp drive of your audio devices (such as audio interfaces, mixers, or speakers) is too weak to bring out the microphone's optimal sound quality, connecting the "PM6 Microphone Preamp" solves this problem. Moreover, the "PM6 Microphone Preamp" adopts a rail-to-rail op-amp circuit, featuring wide frequency response, high dynamic range, and low noise. It can easily drive various types of microphones while reproducing the microphone's perfect sound. Additionally, the "PM6 Microphone Preamp" is equipped with a 48V phantom power supply function, which ensures the operation of condenser microphones that require 48V power supply.

## I. Connection and Usage Instructions

Below, using Takstar's "MX1 PRO Audio Interface" and "TA-68 Professional Dynamic Microphone" as examples, we explain the connection and usage method of the "PM6 Microphone Preamp":

1. First, connect the "PM6 Microphone Preamp" to the "TA-68 Microphone". Use Takstar's "C3-2 XLR Male-to-Female Cable" (cable needs to be purchased separately): connect the XLR female end of the cable to the "TA-68 Microphone", and the XLR male end to the INPUT port of the "PM6 Microphone Preamp".
2. Connect the "PM6 Microphone Preamp" to the "MX1 PRO Audio Interface". Use the microphone cable included with the "TA-68": connect the XLR connector end of the cable to the OUTPUT port of the "PM6 Microphone Preamp", and the Φ6.3mm plug end to the microphone port of the "MX1 PRO Audio Interface".
3. Set the microphone volume of the "MX1 PRO Audio Interface" to the middle position, and set the gain of the "PM6 Microphone Preamp" to the 15dB position.
4. To reduce damage to the equipment caused by current surge, first turn on the power switch of the "PM6 Microphone Preamp", then turn on the switch of the audio interface; when powering off, first turn off the switch of the audio interface, then turn off the switch of the preamplifier. It is recommended that the interval between power-on and power-off exceeds 5s to ensure the equipment gradually reaches a stable state.




C3-2 Male-to-Female XLR Cable

C3-2 Male-to-Female XLR Cable

Note: The connection methods for mixers and speakers are similar and will not be repeated here.

**II. Charging Instructions**

1. Turn on the preamp's power switch. If the last segment of the power indicator flashes red, it indicates low battery and the preamp needs to be recharged promptly.
2. Use the included Type-C charging cable to connect the preamp to a power adapter for charging. During charging, the battery indicator lights up green segment by segment, indicating it is charging; when fully charged, the battery indicator shows all segments. It takes approximately 2 hours to fully charge using a 5V⎓1A DC power supply. When the battery is fully charged, stop charging to prevent overcharging.
3. For the first use, it is recommended to fully charge the preamp first. If not used for a long time, charge the "PM6 Microphone Preamp" once every six months to prevent deep discharge of the battery, which may affect battery performance.

4. If it runs low on battery during use, it also supports charging while in use to eliminate battery life concerns. You can connect it to a power bank or adapter via the included charging cable to enable charging while using.

## ■ Safety Instructions

To avoid electric shock, overheat, fire, radiation, explosion, mechanical risk and injury or property loss due to improper use, please read and observe the following items before use:

1. Please check if the power of the connected equipment matches with that of this product before operation. Adjust the volume to proper level during operation. Do not operate at over-power or high-volume level for extended time to avoid product malfunction.
2. If there is any abnormality during use (e.g., smoke, strange odor), please kill the power switch and unplug from power source, then send the product to the local after-sales service for repair.
3. Power adapter used, if any, should be approved by CCC certification or similar standards and comply with the power supply requirements.
4. Keep this product and its accessories in a dry and ventilated area. Do not store in a humid or dusty area for extended time. Keep away from fire, rain, liquid intrusion, bumping, throwing, vibrating, or from blocking any ventilation openings, to prevent malfunction.
5. The product must, when installed on walls or ceilings, be fixed firmly in place at adequate strength to prevent from falling.
6. Please abide by safety rules during operation. Do not use the product in places prohibited by laws or regulations to avoid accident.
7. Do not disassemble or repair the product unauthorized to avoid injury. If you have any questions or require any services, please contact our local after-sales service.

## ■ Label Meanings



This symbol indicates that this product should not be disposed of with your household waste, according to the WEEE directive (2012/19/EU) and your national law. This product should be handed over to an authorized collection site for recycling waste electrical and electronic equipment (WEEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with WEEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, or your household waste disposal service.

## ■ About This Manual

This manual contains up-to-date technical specifications as of printing. However, specifications contained herein may not conform to your particular product since Takstar is constantly improving its products. Also, specifications, devices or accessories available may vary from region to region. If you have any questions, please contact our local sales outlet. For the latest version/more information, please visit our website: https://www.takstar.com/

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