

# TAKSTAR® 得胜



**PM6** | 话筒放大器  
Microphone Preamp

使用手册 | User Manual

### ■ 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

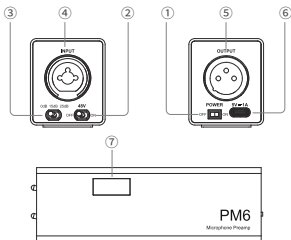
- 1 × PM6 Microphone Preamp
- 1 × Charging Cable
- 1 × User Manual

### ■ Specifications

- Frequency Response: 20Hz-20kHz
- Gain Range: 15dB/25dB
- SNR: 25dB $\geq$ 81dB (1kHz, 20mVrms)
- THD: <0.03% (1kHz, 10mVrms)
- Power Supply: 48V Phantom Power
- Dynamic Range:
  - 0dB $\geq$ 100dBV (348mV, 1kHz, THD+N $\leq$ 0.5%, A-weighted)
  - 15dB $\geq$ 90dBV (90mV, 1kHz, THD+N $\leq$ 0.5%, A-weighted)
  - 25dB $\geq$ 80dBV (25mV, 1kHz, THD+N $\leq$ 0.5%, A-weighted)
- Connectors: XLR+ $\Phi$ 6.35mm Balanced/Unbalanced Input
- Input Impedance: 2.2k $\Omega$
- Connector: XLR Balanced Output
- Output Impedance: 100 $\Omega$
- Battery Type: Lithium-Ion
- Charging Method: 5V $\rightarrow$ 1A
- Battery Capacity: 1500mAh
- Charging Time: Approx. 2 hours
- Operating Time: Approx. 13 hours (48V enabled)  
Approx. 70 hours (48V disabled)
- Dimensions: 115mm  $\times$  38mm  $\times$  44mm (L  $\times$  W  $\times$  H)
- Net Weight: Approx. 185g

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

### ■ Function Descriptions



## PM6 Microphone Preamp

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- 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 &  $\Phi$ 6.35mm 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.

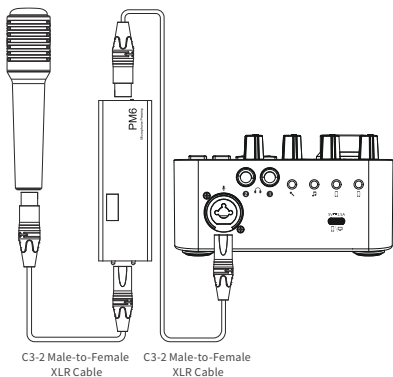
### ■ Operating Instructions

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  $\Phi 6.3\text{mm}$  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.



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<sup>⎓</sup> 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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