

TAKSTAR® 得勝

TAK  
SERIES



专业录音麦克风  
PROFESSIONAL RECORDING MICROPHONE

TAK55

## 前言

尊敬的用户：

感谢您选购得胜 TAK55 专业录音麦克风，为了您能够更好的了解使用本产品，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 或使用微信扫描二维码关注得胜官方公众号与我们联系。



## 产品简介

TAK55 是一款双面镀金大振膜电容式麦克风，采用高精度校准电路和电子元器件，拥有宽广的频率响应及动态范围，提供真实、纯净的声音品质，带有低频衰减、灵敏度衰减及三种指向性选择，专为满足专业录音、广播与扩音行业苛刻的声音要求而设计。

## 产品特性

- ◆ 双面镀金振膜设计，确保了指向的精准度及宽广的频率响应；
- ◆ 高度精细校准电路和电子元器件，保障声音的真实感和纯净度；
- ◆ 3种指向性调节（单指向、双指向、全指向），适应不同拾音场合；
- ◆ 具有较高的声压电平处理能力，适合拾取各种不同类型的音源；
- ◆ 较低的自生噪音表现，满足专业级别的录音需要；
- ◆ 带低频衰减开关，有效降低低频噪音；
- ◆ 带灵敏度衰减开关，可承受高声压级拾音，防止过载失真；
- ◆ 配置专用防震架，具有出色的隔震性能；
- ◆ 配置专用防风网，有效消除人声“pop”和气流等杂音干扰；
- ◆ 配置高档铝合金箱，方便用户携带和存放。

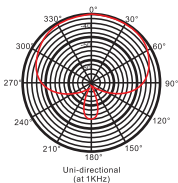
## 适用范围

- ◆ 录音棚、广播电台、舞台演出、影视后期、个人录音、乐器录音等场合

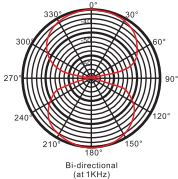
## 标准配置

- ◆ TAK55麦克风 一支
- ◆ 防震架 一个
- ◆ 防风网 一个
- ◆ 铝合金箱 一个
- ◆ 说明书 一份

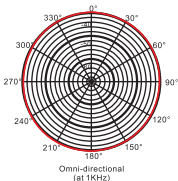
## 技术参数



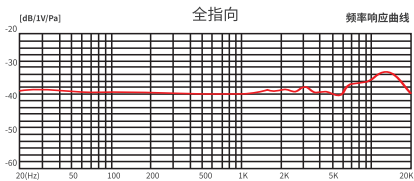
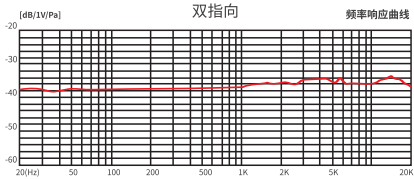
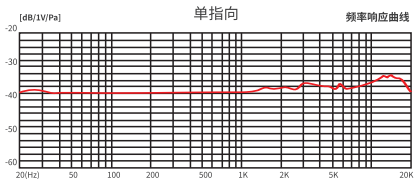
Uni-directional  
(at 1kHz)



Bi-directional  
(at 1kHz)



Omni-directional  
(at 1kHz)



音头：Φ34mm双面镀金大振膜音头

指向性：单指向/双指向/全指向

频率响应：20Hz-20kHz

心形灵敏度：-39dB±3dBV (0dB=  
1V/Pa at 1kHz)

灵敏度衰减：-10dB

低频衰减：150Hz (6dB/oct)

等效噪声级：≤20dBA (IEC 581-5)

峰值声压级：130dB (THD≤1% at  
1kHz)

输出阻抗：150Ω±30% (at 1kHz)

工作电压：48V幻象电源

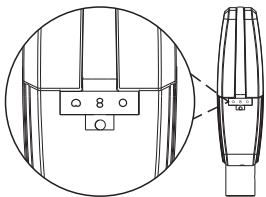
单体尺寸：157x55x38mm

单体重量：372g

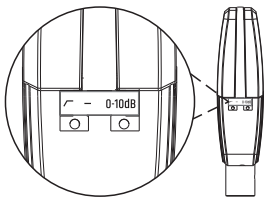
## 功能说明

### 1. 指向性调节功能:

- ① 当开关拨到“○”时为单指向，从麦克风正前方拾音，此时在控制反馈、抑制环境噪音和在多个表演者之间实现隔音方面非常有效，通常适用于单一声源录音，也是较常用的拾音方式；
- ② 拨到“8”时为双指向，从麦克风正面和背面拾音灵敏度相等，此时可排除侧面声音，适用于双向录音场合，它通常还会结合立体拾音时使用；
- ③ 拨到“○”时为全指向，在水平方向（360度）拾音效果是相同、均匀的，此时可在同一个麦克风上对多个语音或乐器收音，消除近讲效应和保留现场的环境声音，适用于多声场音源拾音；



指向性



低频衰减及灵敏度衰减

### 2. 低频衰减功能:

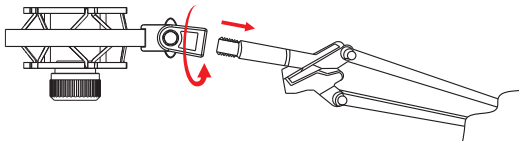
- ① 开关拨到“-”位置时，能够拾取真实的声源，一般在环境比较安静的情况下（如消声室）使用；
- ② 开关拨到“∩”时，可滤除150Hz以下的低频环境噪声（如交通、空调系统、舞台地板震动声等），有效降低喷麦声，使音质更加清晰。


### 3. 灵敏度衰减功能：

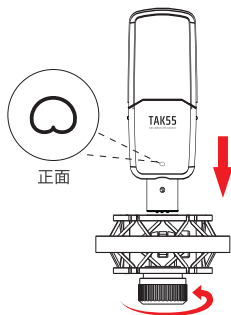
- ① 当开关拨到“0dB”位置时，为无衰减状态；
- ② 当开关拨到“-10dB”位置时，灵敏度衰减-10dB，能够承受更高的声压，一般在高声压级大动态拾音场合使用（如交响乐队的低频鼓、小号等乐器拾音）。

## 安装说明

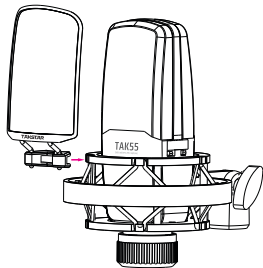
1. 将防震架安装到麦克风支架或吊杆上，并旋紧防震架上的固定螺母。建议防震架安装固定好后正面朝上，底部螺母朝下，以防麦克风夹不紧时从防震架中脱落造成损坏；



2. 麦克风印有“TAK55”产品型号和一个“”单指向性标记的一面是正面，将麦克风的这一面对准声源，安置到防震架中，旋紧防震架底部的螺母到完全夹紧麦克风；



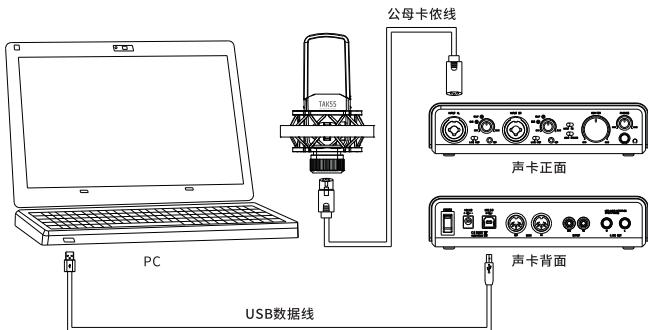
3. 通过防风网上的卡扣将防风网安装到防震架上;



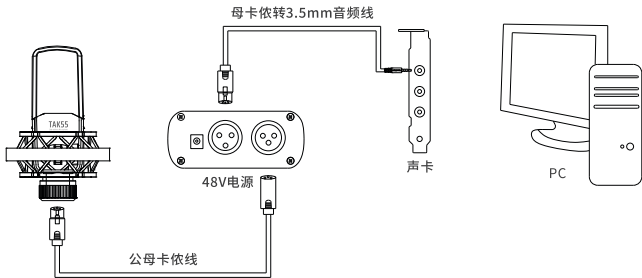
4. 将麦克风的接口通过公母卡侬线连接到具有48V幻象电源的音频设备（如声卡、调音台、功放等），如果设备本身没有幻象电源，则需要另外配套一个48V幻象电源进行连接;

注意: 本产品要求的48V幻象电源规格: DC 48V±4V/2.8mA±20%

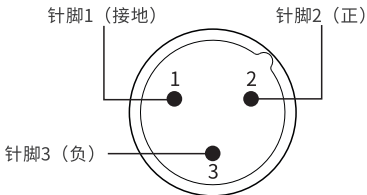
① 音频设备带48V的连接方法:



## ② 音频设备不带48V的连接方法：



5. 将连接线固定在麦克风支架或吊杆上，在麦克风位置预留一圈连接线，这种做法可实现有效的隔震效果；
6. 使用时，应先将设备音量控制调小，再打开幻象电源开关，并将音量从小到大慢慢调节至合适，以免声压过大对扬声器产生冲击。尽可能的拉开麦克风与扬声器的距离，避免麦克风和扬声器相对，从而有效控制回馈啸叫；
7. 麦克风输出接口是三针XLRM接口，其极性如图所示：





## 注意事项

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接设备与本产品功率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，以免造成产品异常和听力损伤；
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，然后将产品送经销商检修；
3. 本产品及配件都应放置在室内干燥通风处，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；
4. 若产品需要固定于墙壁或天花板上时，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；
5. 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机，以免导致意外事故；
6. 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经销商跟进处理；
7. 只能使用本产品要求规格的幻象电源，适用的海拔及气候条件由幻象电源决定，使用前请阅读并理解幻象电源上的图标含义。示例如下：



仅适用于海拔2000  
米以下地区使用



仅适用于非热带  
气候条件下使用

## 环保说明



此标志适应于在中国销售的电子信息产品，依据2006年2月28日公布的《电子信息产品污染控制管理办法》以及SJ/T11364-2006《电子信息产品污染控制标识要求》，表示该产品在使用完后可以利用。数字标识的是环境保护使用期限，只要遵守与本产品有关和使用的注意事项，从制造日算起在数字所表示的年限内，产品不会产生环境污染和对人体、财产的影响。

电池等附属品和产品一同包装的，产品和附属品的环境使用期限可能不同。

产品适当使用后报废的方法请遵从点在信息产品的回收、再利用相关法令。详情请咨询各级政府主管部门。

### 产品中所含有毒有害物质或元素的名称及含量

部件名称 (大体分类)	有毒有害物质或元素					
	铅 (Pb)	水银 (Hg)	镉 (Cd)	六价铬 (CrVI)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
机体(金属部件)	×	○	○	○	○	○
安装基板/电器配件	×	○	○	○	○	○
缆线类	×	○	○	○	○	○
<b>备注</b> ×：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。 ○：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。因为在当代技术下还没有可替代的物质。						

# TAK55 PROFESSIONAL RECORDING MICROPHONE

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## Foreword

Dear Customer,

Thank you for purchasing TAKSTAR TAK55 professional recording microphone .

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.



## Product introduction

TAK55 is a condenser microphone with dual gold plated diaphragm. It features highly accurate correction circuit and components to offer wide frequency response and dynamic range, pure original sound; LF attenuation, sensitivity attenuation and three polar patterns are designed to meet the challenging requirement in professional recording, broadcasting station and PA profession.

## Features

- ◆ Dual gold plated diaphragm capsule ensures accurate directivity and wide frequency response.
- ◆ Highly accurate correction circuit and components ensure pure original sound.
- ◆ Three polar patterns (uni-directional, bi-directional, omni-directional) suit for different pickup applications.
- ◆ High SPL processing capability suits for different audio sources pickup.
- ◆ Low background noise meets the requirement of professional recording.
- ◆ Built-in attenuation switch effectively reduces LF noise.
- ◆ Sensitivity attenuation switch endures high SPL pickup.
- ◆ Provided with professional anti-vibration shock mount.
- ◆ Professional windscreen effectively eliminates pop noise and wind noise.
- ◆ Al alloy case for convenient transportation and storing.

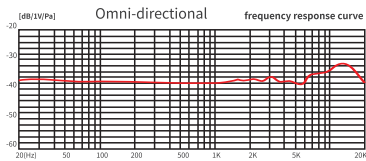
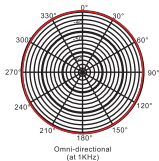
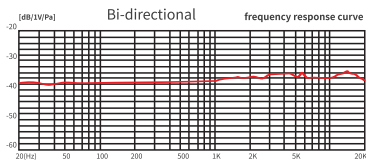
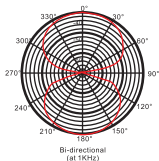
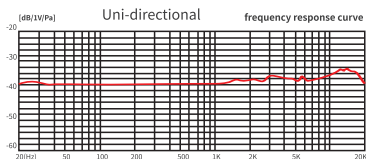
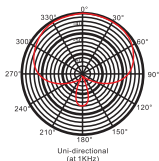
## Application

- ◆ Studio, broadcasting station, stage performance, video post-processing, personal recording, instrument recording.

## Application

- ◆ TAK55 microphone 1 pc
- ◆ Shock mount 1 pc
- ◆ Windscreen 1 pc
- ◆ Aluminum case 1 pc
- ◆ User manual 1 pc

## Specification



Capsule:  $\Phi$ 34mm dual gold plated large diaphragm capsule

Polar Pattern: Uni-directional/Bi-directional/Omni-directional

Frequency Response: 20Hz-20kHz

Cardioid Directivity Sensitivity:  $-39\text{dB} \pm 3\text{dBV}$  (0dB=1V/Pa at 1kHz)

Sensitivity Attenuation: -10dB

LF Attenuation: 150Hz (6dB/Oct)

Equivalent Noise Level:  $\leq 20\text{dBA}$  (IEC 581-5)

Peak SPL: 130dB (THD $\leq$ 1% at 1kHz)

Output Impedance:  $150\Omega \pm 30\%$  (at 1kHz)




Operating Voltage: 48V phantom power

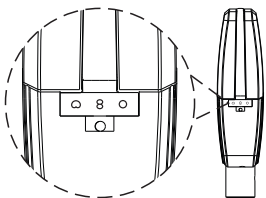
Unit Dimension: 157x55x38mm

Net Weight: 372g

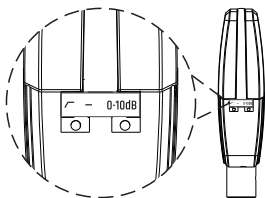
## Function Instruction

1. Directivity adjusting function:

- ① Set the switch to "  " for uni-directional. The microphone picks up from the right front. At this time, it is effective to control feedback or reject ambient noise or isolate the sounds from multiple actors. It suits for single audio source recording and it is the frequently-used pickup way.
- ② Set the switch to "  " for bi-directional. The microphone picks up the equal sensitivities from right front and right back. It can eliminate the sound from two sides. This directivity suits for bidirectional recording and is generally used for stereo pickup.
- ③ Set the switch to "  " for omni-directional. It picks up equal and even effect from 360 degree horizontally. One microphone can pick up multiple vocals and instrument sounds. It eliminates proximity effect but keep the live ambient sound to suit for multiple audio source pickup.





Directivity



LF attenuation & Sensitivity attenuation

2. LF attenuation function

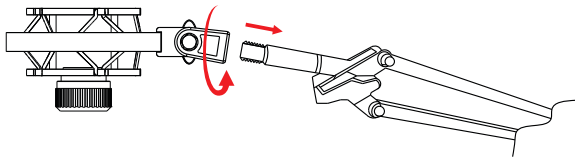
- ① Set the switch to "  " to pick up the real live audio source. This is generally used in quiet situation (anechoic chamber).
- ② Set the switch to "  " to filter ambient LF noise (such as, from transportation, air conditioner, stage vibration and so on) which below 150Hz and to effectively reduce the pop noise meanwhile keep the sound clearer.

3. Sensitivity attenuation function:

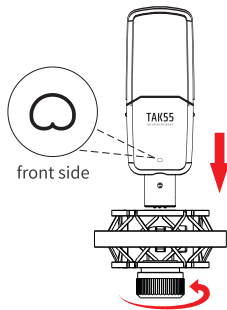
- ① Set the switch to "0dB" position for no attenuation status.
- ② Set the switch to "-10dB" position for high SPL and wide dynamic pickup (pickup from bass drum and trumpet in symphony band) while attenuating -10dB sensitivity.

## Installation

1. Assemble the shock mount onto the microphone stand or the microphone stand boom via tightening the fixing nut. It is recommended to keep the shock mount upward and the nut downward to prevent the microphone drops.

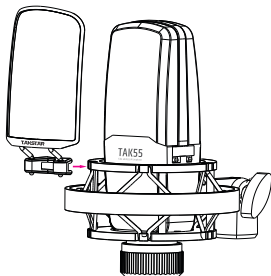


2. The microphone is silkscreened the model number TAK55 and a "☉" uni-directional mark, this side is the front side, facing this side to the audio source and install to the shock mount, then tighten the fixing nut to hold the microphone.



## TAK55 PROFESSIONAL RECORDING MICROPHONE

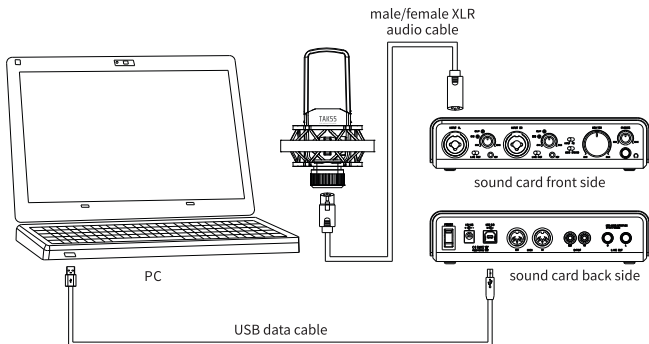
3. Assemble the windscreen onto the shock mount via the clip.



4. Via the male/female XLR cable connect the microphone connector with microphone balanced input equipment (e.g. sound card, mixer, power amplifier, etc) which has 48V phantom power. If the equipment has no phantom power, buy an additional 48V phantom power for connection.

Note: the 48V phantom power specification for this product: DC  $48V \pm 4V / 2.8mA \pm 20\%$ .

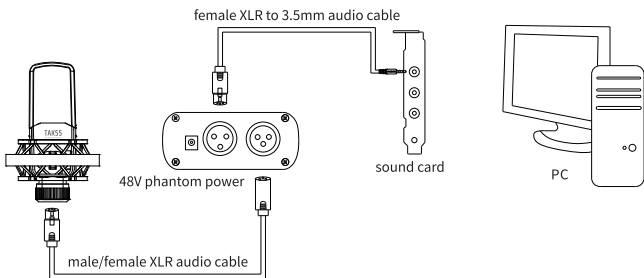
① The connecting way of audio equipment with 48V phantom power:



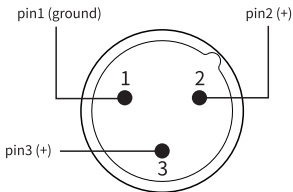


# TAK55 PROFESSIONAL RECORDING MICROPHONE

① The connecting way of audio equipment without 48V phantom power:



5. Fix the connection cable onto microphone stand or the stand boom, and leave a cable loop to effectively isolate the vibration.
6. Before operation, set the equipment volume control to minimum, then turn on the phantom power switch, increase the volume slowly to the proper volume to avoid too high sound pressure surges the speaker. Put the microphone away from the speaker as much as possible, and keep the capsule against the speaker to avoid howling.
7. The microphone output connector is a 3 pin XLR male connector. Refer to the picture below:



## Cautions

To avoid electric shock, over temperature, catching fire, radiation, 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 immediately, 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, rain, water, over-colliding, throwing, vibrating, vent hole covered to avoid function destroyed.
4. When the product needs to be installed on wall or ceiling, please fix it tightly to avoid dropping risk.
5. Please abide by safety rules during operation. Do not use the product in the place prohibited by regulation or law to avoid accident.
6. Do not disassemble or repair the product by yourself to avoid hurt. If you have question or need service, please contact the local dealer.
7. Only use the phantom power right for this product. The applicable altitude and climate conditions of this product is subject to the phantom power. The meaning of the icons on phantom power is as below:



Applicable to the altitude below 2000m only



Applicable to the non-tropical climate conditions only



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## 广东省电声工程技术研究开发中心 广东得胜电子有限公司制造

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得胜科声系列中国总代理

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