



广播录音专用麦克风

Broadcast and Recording Microphone

SM-1B/SM-1C



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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用户手册

User Manual

欢迎使用 **TAKSTAR®** 广播录音专用麦克风；为了更好的了解我们的产品，我们建议您在使用前，仔细阅读本说明书，若存在有疑问，或者您有宝贵的建议，请就近和得胜代理商联系，或者访问 www.takstar.com

SM-1B



单体：压力式纯金镀膜电容传声器

指向性：单指向

频率响应：20Hz-20kHz

灵敏度：-35dB ± 2dB (0dB=1V/Pa at 1kHz)

输出阻抗：200Ω ± 30% (at 1kHz)

负载阻抗：≥1000Ω

等效噪声级：16dB A(IEC581-5)

最大声压级：135dB (1kHz谐波失真 ≤1%)

145dB (衰减-10dB)

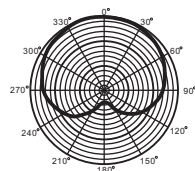
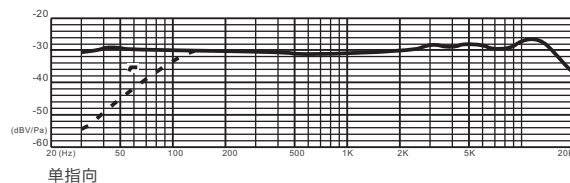
信噪比：78dB

使用电压：48V幻象电源(±5V)

单体尺寸：Ø54x201mm

单体重量：578g

频率响应



SM-1C



单体：压力式纯金镀膜电容传声器

指向性：单指向/双指向/全指向

频率响应：20Hz-20kHz

灵敏度：-31dB-33dB/-34dB $\pm$ 2dB
(0dB=1V/Pa at 1kHz)

输出阻抗：200 Ω $\pm$ 30% (at 1kHz)

负载阻抗： $\geq$ 1000 Ω

等效噪声级：14/15/16dB A(IEC581-5)

最大声压级：135dB (1kHz谐波失真 $\leq$ 1%)
145dB (衰减-10dB)

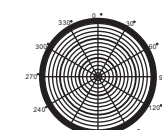
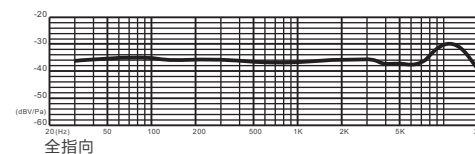
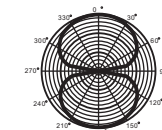
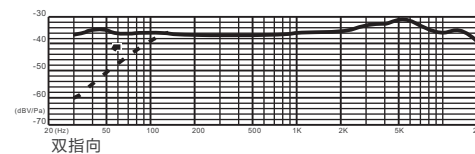
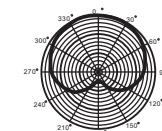
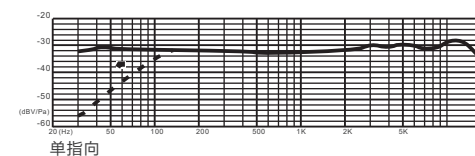
信噪比：80/79/78dB

使用电压：48V幻象电源($\pm$ 5V)

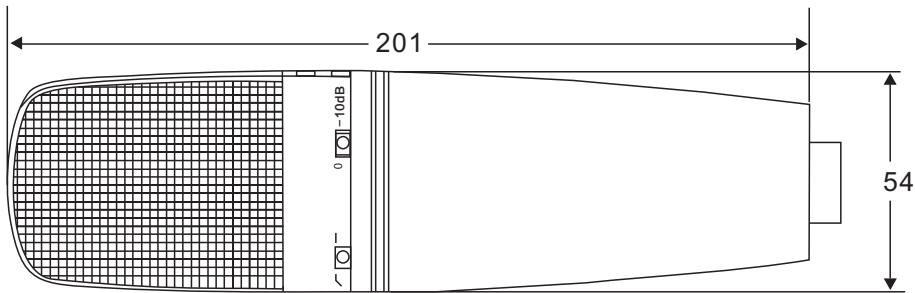
单体尺寸： $\varnothing$ 54x201mm

单体重量：590g

频率响应

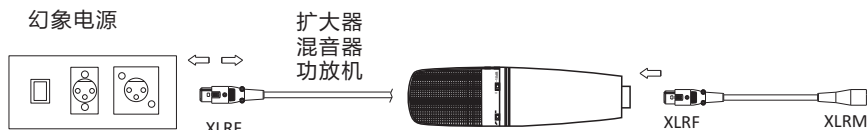


规格



● 本机型规格及外观变更将不另行通知。

连接



连接线的安装与拆卸

1. 把卡侬（XLR）插头插入传声器，旋转插头使上面的扣键与传声器上的槽口对准，然后将插头推入传声器，直到扣键定位。
2. 传声器与连接线分开时，可握住插头，同时按压扣键，然后将插头从传声器拉出。

产品服务保证书

注意事项:

1. 本单为保修凭证，用户妥善保管，如有丢失，恕不退换。
2. 保修期限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事故的，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。

姓名: _____ 电话: _____ 地址: _____
商品: _____ 型号: _____ 购买日期: _____ 年 ____ 月 ____ 日

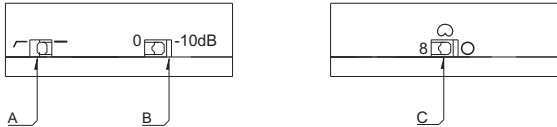
维修记录栏 (由维修员填写)	维修员签名	日期

■ 广东得胜电子有限公司 ■ 电话: 400-6828-333 ■ 地址: 广东省惠州市博罗县龙溪镇雷康一路2号

10 该标记附加在出售到中华人民共和国的电子信息产品上。环形中的数字表示的是环境保护使用期限的年数。

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)	x	○	○	○	○	○
安装基板/电器部件	x	○	○	○	○	○
缆线类	x	○	○	○	○	○
备注: ○: 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。 x: 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。						

开关的使用



- A. 低频衰减: 当开关处于: “—” 位置时, 为无衰减状态, 当开关处于 “/” 位置时, 可均衡近距离拾音时的低频提升效应和降低风噪声、舞台地板振动声等。
- B. 灵敏度衰减: 当开关处于 “0” 位置时, 为无衰减状态, 当开关处于 “-10dB” 时, 可使灵敏度衰减-10dB, 一般在高声压级大动态拾音场合使用此功能 (如交响乐队的低频鼓、小号等乐器的拾音)。
- C. 指向性开关: 开关调节 “○” 时为全指向, 在各个方位 (360°) 拾音效果是相同的、均匀的, 用于多声场音源拾音。开关调节 “⌒” 时为单指向, 从传声器正前方拾音, 这时为理想的灵敏度拾音, 通常用于单一声源录音功能。开关调节为 “8” 时为双指向, 从传声器正前方和背面的拾音灵敏度是相等的, 使用于双向录音场合。

注意事项

1. 使用时, 应先将扩音器或调音台声量控制调小, 然后将幻像电源与麦克风连接好, 再打开幻像电源的电源开关, 并将声量从小到大慢慢调节至合适, 以免喇叭受到冲击。
2. 用手罩住麦克风头部, 或使麦克风接近扬声器, 可能产生啸叫声, 遇此情形时, 首先降低音量, 拉开同扩音器的距离, 尽量使麦克风不同扩音器相对。
3. 避免在温度、湿度过高的场所进行保管或使用。
4. 传声器不使用时应存放在干燥清洁的地方, 避免受潮, 影响灵敏度和音色。

供选择配件

※ 幻象电源盒	1个	※ 电源线	1条
※ 输出线（10米）	1条	※ 防震架	1个
※ 简易支架	1个	※ 防风海绵	1个

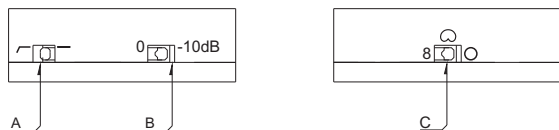
Optional Accessories

※ Phantom Power	1pc	※ Cable	1pc
※ Output Cable (10m)	1pc	※ Shock Mounting	1pc
※ Simple Stand	1pc	※ Windscreen	1pc

- * 得胜公司保留对本说明书中描述的产品及说明书内容更新和改进的权利，如有更改，恕不另行通知。
- * 如有疑问，请关注本公司的文宣资讯或网上查询：www.takstar.com对其中涉及
的描述和图像，以包装箱内内容和实物为准！

- * Product is subject to update and improve without prior notice.
- * Actual product may differ slightly from the description and photo of this user manual.

Operating Instruction



- A. Low Frequency Attenuation:** when the switch set as “—”, it is no attenuation; when the switch set as “ $\curvearrowright$ ”, it can balance the low frequency raising effect of short distance pickup, reduce wind noise and stage floor vibration sound.
- B. Sensitivity Attenuation:** when the switch set as “0”, it is no attenuation; when the switch set as -10dB, it attenuate sensitivity by -10dB, this function is used for high SPL and large dynamic pickup occasion. (such as of low frequency symphony orchestra bass drums, trumpet and other instruments pick up).
- C. Polar Pattern Switch:** when the switch set as “0”, the polar pattern is omni-directional, sound is captured equally well from all directions, it is ideal for all directions sound capture; when the switch set as “ ∞ ”, the polar pattern is cardioid, pick up sound in front of the microphone. Cardioid is the most commonly used pattern in single sound source such as studio recording; when the switch set as “8”, the polar pattern is bidirectional, pick up equally from the front and back of the microphone, it is ideal for bidirection recording application.

Notes

1. Turn the volume of the speaker or consoler to the minimum level when use the microphone, connect the phantom power with the microphone, then turn on the phantom power and adjust the volume from low to an appropriate level to avoid the speaker shocked.
2. Do not cover the microphone head by hand or place the microphone close to the speaker, otherwise, the howling may caused. When the howling is caused, turn down the volume and increase the separation between the microphone and the speaker. Avoid to point the microphone to the speaker.
3. Avoid to keep and store the microphone under the high temperature and humidity environment.
4. When microphone unused, keep it under the clean and dry places, avoid microphone damp affect sensitivity and timbre.

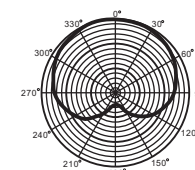
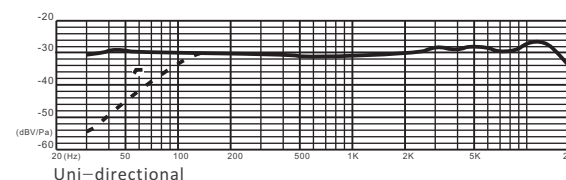
Thanks for purchasing **TAKSTAR**® broadcast and recording microphone, to exert the best performance, please read this manual detailedly before using the microphone. If you have any question or suggestion, please contact your local dealer or visit our website www.takstar.com

SM-1B



Element: Pressure gold-plated diaphragm, condenser
Polar Pattern: Unidirectional
Frequency Response: 20Hz-20kHz
Sensitivity: -35dB $\pm$ 2dB (0dB=1V / Pa at 1kHz)
Output Impedance: 200 Ω $\pm$ 30% (at 1kHz)
Load Impedance: $\geq$ 1000 Ω
Equivalent Noise Level: 16dB A (IEC 581-5)
S/N Ratio: 78dB
Max Input SPL: 135dB (THD $\leq$ 1% at 1kHz)
145dB (attenuate -10dB)
Operating Voltage: 48V DC Phantom Power ($\pm$ 5V)
Dimensions: $\varnothing$ 54 $\times$ 201mm
Net Weight: 578g

FREQUENCY RESPONSE GRAPH



SM-1C



Element: Pressure gold-plated diaphragm, condenser

Polar Pattern: Uni / Omni / Bidirectional

Frequency Response: 20Hz-20kHz

Sensitivity: -31dB / 33dB / -34dB ± 2dB (0dB=1V / Pa at 1kHz)

Output Impedance: 200 Ω ±30% (at 1kHz)

Load Impedance: ≥ 1000 Ω

Equivalent Noise Level: 14 / 15 / 16dB A (IEC 581-5)

Max Input SPL: 135dB (THD≤1% at 1kHz)
145dB (attenuate -10dB)

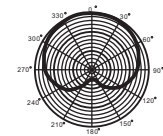
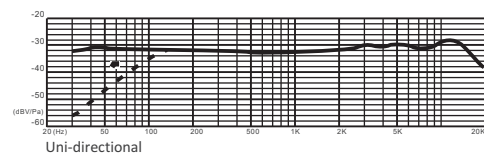
S/N Ratio: 80 / 79 / 78dB

Operating Voltage: 48V DC Phantom power (±5V)

Dimensions: Ø54×201mm

Net Weight: 590g

Frequency Response Graph



Uni-directional

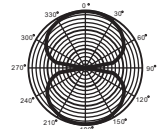
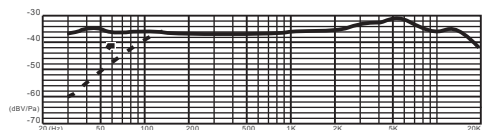
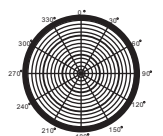
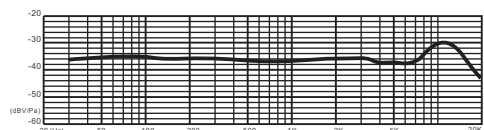
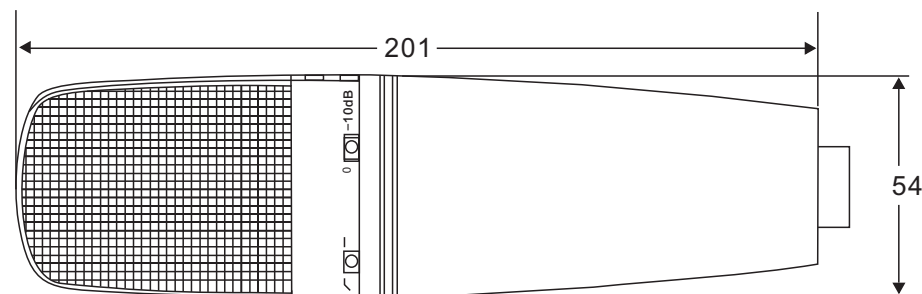


Figure 8



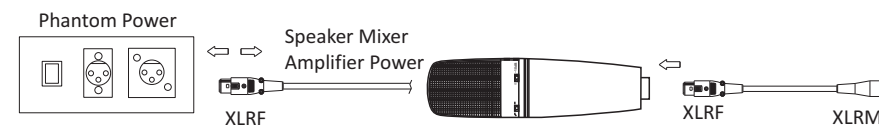
Omni

Specification



- Microphone specifications are subject to change without prior notice

Connection



Connection and Disconnection

1. Plug the XLR connector into the microphone, rotate the connector to align the buckle with the groove on the microphone, then push the connector into the microphone until it fixed.
2. To disconnect the cable and microphone, hold the connector and press the buckle, then pull the connector from the microphone.