

TAKSTAR® 得胜



SG-11X 七寸触摸屏网络寻呼话筒

7-Inch Touchscreen Network Paging Mic

使用说明
User Manual

SG-11X 七寸触摸屏网络寻呼话筒

■ 前言

感谢您选购得胜SG-11X七寸触摸屏网络寻呼话筒,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

- 话筒自带USB、SD卡接口、FM收音功能、无线功能,一路线路输入输出。
- 话筒自身携带音量调节功能,一键静音功能。
- 面板带7寸TFT真彩色液晶屏,分辨率800*480,画面大小154*86mm,自动背光关闭,触摸自动控制、8个数字/分区快捷按键,一键选择寻呼。
- 桌面外型式设计专业寻呼话筒,黑色氧化铝拉丝面板,黑色电镀按钮搭配,工艺考究,现代感十足,精致美观。
- 采用高灵敏度优质咪芯,平衡输入、音质清晰、无噪声。
- 人性化人机操作界面:可随接在话筒上,无需软件上配置,呼叫任意终端成分组,操作简单快捷。
- 采用嵌入式PC技术和内置工业级高速处理芯片,启动时间 ≤ 1 秒。
- 带咪杆拾音,对权限允许区域广播讲话,红色环状指示灯通话自动点亮。
- 超强的跨网关、跨路由能力,有以太网口的地方即可接入。
- 在管理系统的授权下可实现点对点、点对多点寻呼广播。
- 具有远程升级功能,产品程序更新无须现场升级,通过网络远程即可更新、方便快捷。
- 本机可调节音量,适合应用在不同场合
- 可实时调整终端音量, MIC增益,本地储存终端列表,支持本地独立群组编辑和快捷选组讲话。
- 4线电阻式触摸屏,防止误触摸。
- 支持触摸屏校准,优化校准算法,表面耐久力打击,超过100万次。

SG-11X 七寸触摸屏网络寻呼话筒

■ 适用范围

商超、校园、酒店、公园、监狱、大型商业综合体等场所

■ 包装清单

触摸屏网络话筒	1台
电源线	1条
说明书	1份

■ 技术参数

- 网络接口：标准RJ45输入
- 网络协议：TCP/IP、UDP、IGMP(组播)
- 电源：DC12V 1A, $\pm 0.1V$
- 数字音频格式：OGG编码
- 样码流：80-128K
- 传输速率：10/100Mbps自适应
- 音频模式：16-32位立体声CD音质
- 待机功率：0.2W
- 工作功耗： $\leq 10W$
- 辅助输入输出信号：莲花插口
- 音频输出：带宽200Hz-3.5kHz, 电平MAX 1.5V p-p
- 输出频率：20Hz~20KHz
- 谐波失真： $\leq 0.1\%$
- 信噪比： $> 82dB$
- 内置扬声器输出阻抗：4 Ω , 3W
- 环境温度：-15 $^{\circ}C$ ~65 $^{\circ}C$ 环境湿度：10%~90%
- 功耗： $\leq 10W$
- 产品重量：约1.6KG
- 产品尺寸：250mm*180mm*85mm

注：以上数据由得胜实验室测试得到，并拥有最终解释权！

■ 面板介绍

现在用的是电阻触摸屏，需要稍微用力按压才能有反应，且不支持滑动、拖动、多点触摸等操作。上电后，首先看到启动画面，之后进入工作状态，显示：



画面右上角将会显示本寻呼话筒的ID和描述

寻呼话筒尝试注册到服务器，显示屏上网络状态框有闪动图标：



直到寻呼话筒成功注册到服务器，图标变为绿色，显示为在线状态：成功注册之前，其他按钮不可用；在线后，快捷编组的“数字”键和“开始”按钮可以点击。点击“开始”按钮，将从服务器下载当前在线的终端设备和分组列表，然后显示第2页工作画面。点击“数字”键，也会跳转到第2页画面，但不从服务器下载当前在线设备的信息，而是只读取保存在本地的快捷编组信息。

快捷编组是寻呼话筒自有的编组设置，每个编组内可以选择若干终端和分组。这个编组和管理软件中的终端分组不是一个概念。每个寻呼话筒可以根据自己的需要设置编组的内容，相当于建立几个不同的常用讲话对象的群，以达到快速开始讲话的目的。

寻呼话筒在第1页画面时，如果超过2分钟无触摸动作就会关闭背光而黑屏，之后有触摸动作或网络状态发生变化时，会讲话的目的。不会关闭背光。

左边深蓝色的区域是设备或分组的列表框，如果有设备可用，显示效果如下：



每行最左边的图例：■表示播放终端，■表示分组。

SG-11X 七寸触摸屏网络寻呼话筒

点击某行即可选择或取消选择该行对应的终端或分组,已选择的行则以棕色背景表示。点击  按钮,可以上翻或下翻一页列表,每页显示12行信息。

如果是通过“开始”按钮进入本页画面的,可能会看到以下提示:



正在下载终端列表数据...
错误，请返回重试！
超时，请返回重试！

这表明寻呼话筒从服务器下载数据时出现问题,一旦看到这些提示时,只能点击“返回”按钮返回第1页画面重新尝试,其他按钮不可用。没有对话框出现的话,可以随时点“返回”按钮返回第1页画面。如果寻呼话筒掉线(服务器关闭或网线断开或TCP连接断开等意外),会自动返回到第1页画面,然后尝试注册服务器。

画面右上角将会显示当前选择的编组号码,以及已经选定的终端或分组的总项数。

选择完想要讲话的终端或分组后,点击“呼叫”按钮即可开始讲话,进入第3页工作画面。但是如果没选任何终端或分组,会看到如下提示:



尚未选择任何终端！
确定

此时请点这个对话框中的“确定”按钮,关闭对话框并选择终端。

编辑快捷编组内容:

在终端列表中,选好终端或分组,点击“保存快捷编组”一栏中的“数字”键,将所选内容保存到对应的编组。此时会看到提示:

点对话框中的确定即保存,如果对应编组原来有选定内容,则被覆盖。



保存快捷编组
确认覆盖编组？
确定 取消

呼叫状态一栏中,显示寻呼话筒向服务器发起任务请求和启动采播的过程和状态:



网络寻呼话筒控制界面，显示呼叫状态、终端列表、编组列表、呼叫按钮、接听按钮、挂断按钮、静音按钮、音量调节滑块、麦克风开关、扬声器开关、电源按钮、复位按钮、帮助按钮。

SG-11X 七寸触摸屏网络寻呼话筒



正常情况下,进入本页画面就能看到绿色的图标,表明正在采播,可以讲话了。如果停留在红色或黄色图标上,说明寻呼话筒向服务器提交任务请求时出现问题,或者任务请求成功但未能顺利启动采播。异常情况的同时,还会在呼叫状态一栏的下部看到如下的提示:



造成异常的原因可能是设备问题、网络环境问题、服务器异常等,请按“结束”按钮返回重试,此时其他按钮不可用。

正常采播状态下,呼叫状态一栏的下部将显示: **活动终端:**

“活动终端”之后会显示一个比例,比如5/10,表示本次讲话选定了10个终端,但实际播送本话筒声音的终端是5个。这里显示的选定终端数量是不包括分组的,但包含分组内的终端,并剔除了不同分组中重复的终端。实际播送的终端数量不足总数,是因为有的终端正在播放更高优先级的任务。随着服务器运行,这个比例可能会出现变化。

正常采播状态下,点“结束”按钮,将弹出确认对话框:



点这个“确定”按钮,将结束采播,并返回第1页工作界面。

正常采播状态下,寻呼话筒提交的任务可能被管理软件终止,或出现服务器关闭、网线断开、TCP连接断开等异常情况,寻呼话筒都会自动结束采播过程,返回第1页画面。此时会在呼叫状态一栏的下部看到:



正常采播状态下,终端音量和话筒增益一栏中的按钮可用,点击按钮可调节对应的音量值或增益值。音量和增益在讲话过程中可连续反复按钮可调节可自动连续增加或减少音量或增益。

SG-11X 七寸触摸屏网络寻呼话筒

点击“MUTE”按钮将静音或退出静音



表示正常



表示处于静音状态, 采播继续但话筒的声音不会出现在终端。点击“AGC”按钮将开启或关闭自动增益控制



表示关闭AGC

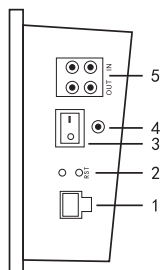


表示开启AGC。当开启AGC时, 通过加减键调整的增益数值不起作用, 电路将自动控制增益, 适合讲话时口音忽轻忽重或嘴离话筒忽远忽近的情况。当进行音乐广播时, 请关闭AGC。

触摸屏校准方法:

先按住触摸屏任意位置再上电, 一直持续到出现提示界面(显示“即将进入触摸屏校准模式, 请先停止按压触摸屏!”), 然后松开触摸屏, 就会进入校准模式。触摸屏校准界面上, 有三个十字, 按提示依次按压这三个十字的交叉点, 最好用圆珠笔那种比较尖但不锐利的东西来按压, 指头肚因为接触面大而精确度差些。每个十字按压时, 尽量稳定不滑动, 坚持到十字线变为蓝色即可抬起, 若中间松开请重复按压。三个十字都完成后自动退出校准模式。

■ 侧面板



① 网络接口

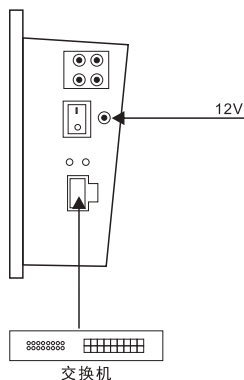
② 网络恢复按键

③ 电源开关

④ 电源插口

⑤ 线路输入输出

■ 基本连接



■ 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. 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;
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售后服务网点跟进处理。

SG-11X 7-Inch Touchscreen Network Paging Mic

■ Preface

Dear Customer,

Thanks for purchasing our product. Read this manual thoroughly for proper use.

If you have any questions or suggestions, please contact our local sales service.

■ Features

- With USB, SD card interface, FM radio function, wireless capability, and 1CH line input and output.
- Built-in volume control and one-touch mute function.
- 7-inch TFT true color LCD touchscreen with a resolution of 800 x 480, display size 154 x 86 mm, automatic backlight off, and 8 quick access digit/zone buttons for one-touch paging.
- Pro desktop mic design with a black anodized aluminum brushed panel and black plated buttons.
- Utilizes a high-sensitivity quality mic capsule for balanced input and clear, noise-free audio.
- User-friendly interface for direct operation on the mic without software config; easily call any terminal or group.
- Incorporates embedded PC technology and a high-speed industrial chip for startup in ≤ 1 second.
- Includes a gooseneck mic for broadcasting in designated areas; a red circular indicator light illuminates during calls.
- Strong cross-gateway and cross-router capabilities; connects easily via any Ethernet port.
- Supports point-to-point and point-to-multipoint paging broadcasts under management system authorization.

SG-11X 7-Inch Touchscreen Network Paging Mic

- Remote upgrade functionality for product software updates without on-site intervention, ensuring convenience.
- Adjustable volume suitable for various applications.
- Real-time adjustment of terminal volume and MIC gain; stores local terminal lists and supports independent group editing and quick group selection.
- Features a 4-wire resistive touchscreen to prevent accidental touches.
- Supports touchscreen calibration with optimized algorithms for durability, withstanding over 1 million touches.

■ Application

Shopping malls, campuses, hotels, parks, prisons, community announcements, and large commercial complexes.

■ Package Contents

- 1 × Touchscreen Network Mic
- 1 × Power Cord
- 1 × User Manual

■ Technical Specifications

- Network Interface: Standard RJ45 input
- Network Protocols: TCP/IP, UDP, IGMP (multicast)
- Power Supply: DC 12V, 1A $\pm$ 0.1V
- Digital Audio Format: OGG encoding
- Bitrate: 80-128K
- Transmission Rate: Adaptive 10/100 Mbps
- Audio Mode: 16-32 bit stereo CD quality
- Standby Power: 0.2W
- Operating Power: $\leq$ 10W
- Auxiliary Input/Output: RCA connectors
- Audio Output: Bandwidth 200 Hz - 3.5 kHz, level MAX 1.5V p-p
- Output Frequency: 20 Hz - 20 kHz
- Total Harmonic Distortion: $\leq$ 0.1%
- Signal-to-Noise Ratio: >82 dB
- Built-in Speaker Output Impedance: 4 Ω , 3W
- Operating Temperature: -15 °C to 65 °C
- Operating Humidity: 10% - 90%
- Power Consumption: $\leq$ 10W
- Product Weight: Approximately 1.6 kg
- Product Dimensions: 250 mm x 180 mm x 85 mm

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

SG-11X 7-Inch Touchscreen Network Paging Mic

■ Panel Description

The current device uses a resistive touchscreen, requiring firm pressure to respond. It does not support swipe, drag, or multi-touch gestures. Upon powering on, the startup screen appears, followed by the main interface, displaying:



The top right corner shows the mic ID and description.

The mic attempts to register with the server; a flashing icon in the network status box indicates this:



Once registration is successful, the icon turns green, indicating online status. Until then, other buttons are disabled. After going online, the quick group digit keys and Start button become clickable. Pressing the Start button downloads the current online terminal and group list from the server, leading to the second page interface. Pressing the digit keys also navigates to the second page but only accesses locally stored quick group info.

Quick groups are unique to each mic, allowing users to select multiple terminals for efficient communication. This concept differs from terminal grouping in management software, enabling personalized group settings for quick access to frequently contacted parties.

If there is no touch action for over 2 minutes on the first page, the backlight will turn off, and the screen will go black. Any subsequent touch or change in network status will reactivate the display.

The dark blue area on the left displays the list of devices or groups. If devices are available, it appears as follows:

SG-11X 7-Inch Touchscreen Network Paging Mic



The icon on the left indicates:

 for playback terminals and  for groups.

Clicking a row selects or deselects the corresponding terminal or group; selected rows will have a brown background. Use the  button to scroll through the list, showing 12 lines of info per page.

If entering this page via the Start button, you may encounter the following prompt:



This indicates an issue with downloading data from the server. If this occurs, click the Return button to go back to the first page and retry; other buttons will be disabled. If no dialog appears, you can return to the first page at any time. If the mic loses connection (due to server shutdown, cable disconnection, or TCP connection loss), it will automatically return to the first page and attempt to register with the server again.

The top right corner will display the selected group number and the total count of selected terminals or groups.

After selecting the desired terminals or groups, press the Call button to start speaking, leading to the third page interface. If no terminals or groups are selected, the following prompt will appear:



Please click the OK button in this dialog to close it and select a terminal.

SG-11X 7-Inch Touchscreen Network Paging Mic

Editing Quick Group Content:

In the terminal list, select the desired terminals or groups, then click the digit key in the Save ShortcutSet section to save the selected content to the corresponding group. A prompt will appear:

Click OK in the dialog to save. If the group previously contained selected content, it will be overwritten.



The call status section displays the mic task request to the server and the process of starting the broadcast:



Under normal conditions, a green icon will appear upon entering this page, indicating that broadcasting is active and you can speak. If a red or yellow icon is shown, it indicates an issue with submitting the task request to the server or that the request was successful but the broadcast did not start properly. An additional prompt will appear in the call status section:

Timeout. Please go back and try again!

Error! Please go back and try again!

SG-11X 7-Inch Touchscreen Network Paging Mic

Possible causes for the error include device issues, network problems, or server anomalies. Press the End button to return and retry; other buttons will be disabled.

In normal broadcasting status, the bottom of the call status section will display:

A blue rectangular button with the text "Activity Terminals" in white.

Following Activity Terminals, a ratio will be shown, such as 5/10, indicating that 10 terminals were selected for this communication, but only 5 are actively receiving the mic audio. The displayed count excludes groups but includes terminals within groups, removing any duplicates across different groups. The number of actively broadcasting terminals may be lower than the total due to some terminals performing higher-priority tasks. This ratio may change as the server operates.

In normal broadcasting status, clicking the End button will prompt a confirmation dialog:



Pressing the OK button will terminate the broadcast and return you to the first page interface.

If the broadcasting task submitted by the mic is terminated by management software or if there are issues such as server shutdown, cable disconnection, or TCP connection loss, the mic will auto end the broadcasting process and return to the first page. During this time, you will see the following in the call status section:



In normal broadcasting status, the buttons for terminal volume and mic gain are available. Clicking these buttons allows you to adjust the corresponding volume or gain values continuously during speech, increasing or decreasing volume or gain.

SG-11X 7-Inch Touchscreen Network Paging Mic

Pressing the MUTE button will toggle mute on or off:



indicates normal operation.



indicates the mic is muted; broadcasting continues, but the mic audio will not be transmitted to the terminals. Pressing the AGC button will toggle Automatic Gain Control (AGC) on or off:



indicates AGC is off.



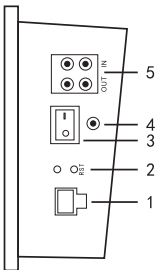
indicates AGC is on. When AGC is enabled, manual gain adjustments via the buttons will have no effect, as the circuit will auto control the gain. This is suitable for situations where the speaker's voice fluctuates in volume or distance from the mic. Please disable AGC during music broadcasts.

Touchscreen Calibration:

To calibrate the touchscreen, press and hold any position on the screen while powering on the device. Continue holding until the prompt appears (displaying, "Entering touchscreen calibration mode, please stop pressing the screen!"). Release the screen to enter calibration mode. In the calibration interface, there are three crosshairs. Follow the prompts to press each crosshair's intersection point in order. It is best to use a pointed but not sharp object, like a ballpoint pen, for accurate contact, as fingers may not provide the best precision due to their larger contact area. When pressing each crosshair, maintain stability to avoid slipping until the crosshair turns blue, then lift your finger. If you release in the middle, please repeat the pressing action. After completing all three crosshairs, the calibration mode will exit automatically.

SG-11X 7-Inch Touchscreen Network Paging Mic

Side Panel



① Network Interface

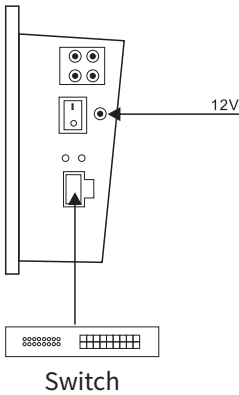
② Network Reset Button

③ Power Switch

④ Power Input Port

⑤ Line Input/Output

Basic Connection



■ 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. Please abide by safety rules during operation. Do not use the product in places prohibited by laws or regulations to avoid accident.
6. Do not disassemble or repair the product without authorization to avoid injury. If you have any questions or require any services, please contact our local after-sales service.

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)。

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

◆ 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街道富康一路2号

18



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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

地址：广东省惠州市博罗县龙溪街道富康一路2号

服务热线：400 6828 333 传真：0752 6383950

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