

# TAKSTAR® 得胜



## EHX-2A 前级效果器

Preamp Effects Processor

使用手册 | User Manual

# EKX-2A 前级效果器

## ■ 前言

感谢您选购得胜EKX-2A前级效果器,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

- 光纤、同轴、无线连接播放、U盘、RCA,多种音源输入,连接更灵活;
- 采用ADI系列芯片数字音频处理器,强大的音频信号处理能力;
- 音乐通道有7段PEQ立体声均衡器,并自动识别USB音频数字输入;
- 麦克风消声设定,独立压缩设计;3挡啸叫抑制,并可选“OFF”;
- 效果通道独立设有高、低通,混响和回声分别设有3段参量均衡 (PEQ) 等功能;
- 麦克风7段PEQ单独调节,全数字音频处理系统,DSP多重数字混响,人声效果更专业;
- 各输出通道分别设3-5段参量均衡 (PEQ),混合比例,极性,压限功能;
- 支持USB连接电脑控制机器,配有专业PC设备管理控制软件;
- 独特设计的麦克风噪声门,告别麦克风启动噪声,兼容会议场景使用;
- 可存储8组系统模式,开机状态为最后一次机器保存数据。

## ■ 适用范围

适用于各类型KTV工程安装

## ■ 产品配置

|             |    |
|-------------|----|
| 处理器.....    | 1台 |
| 遥控器.....    | 1个 |
| 电源线.....    | 1条 |
| USB数据线..... | 1条 |
| 天线.....     | 1条 |
| 说明书.....    | 1份 |

# EKX-2A 前级效果器

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## ■ 技术参数

### 音乐部分 (MUSIC)

- 信号源: 光纤, 同轴, 无线连接, U盘, RCA
- 输入电平: 775mVrms
- 频率响应: 20Hz-20kHz
- 失真 (THD) : <0.1% (1kHz)
- 信噪比 (SNR) : >80dB
- 参量均衡 (PEQ) : 1-7段

### 中置部分 (CEN)

- 输入电平: 775mVrms
- 频率响应: 20Hz-20kHz
- 失真 (THD) : <0.003% (1kHz)
- 信噪比 (SNR) : >80dB
- 参量均衡 (PEQ) : 1-5段

### 超低部分 (SUB)

- 输入电平: 775mVrms
- 频率响应: 20Hz-400Hz
- 信噪比 (SNR) : >80dB
- 参量均衡 (PEQ) : 1-3段

### 麦克风部分 (三路MIC输入)

- 输入电平: 50mVrms
- 频率响应: 20Hz-20kHz
- 失真 (THD) : <0.1% (1kHz)
- 信噪比 (SNR) : >80dB (直通)
- 参量均衡 (PEQ) : 1-7段

### 环绕部分 (SUR)

- 输入电平: 775mVrms
- 频率响应: 20Hz-20kHz
- 失真 (THD) : <0.003% (1kHz)
- 信噪比 (SNR) : >80dB
- 参量均衡 (PEQ) : 1-5段

### 其他

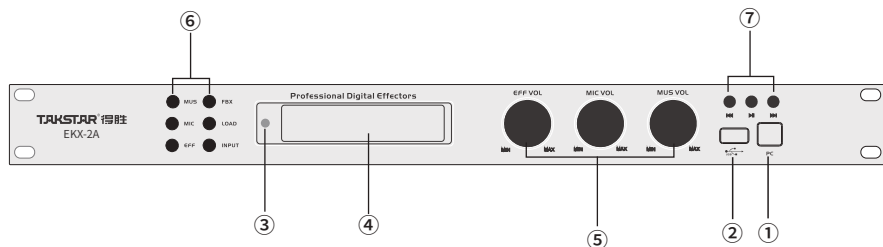
- 连接电脑: USB接口
- 电源供应: AC200V-240V/50Hz
- 保险丝: T1A/250VAC
- 电源消耗: 10W

注: 以上数据由得胜实验室测试得到, 并拥有最终解释权!

# EKX-2A 前级效果器

## ■ 功能示意

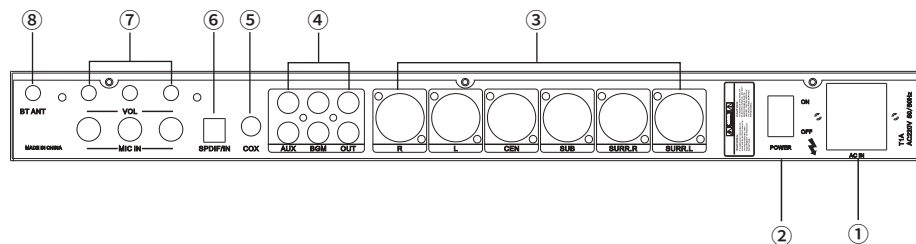
### 前面板



- ① 电脑接口:连接本机与装有Windows系统的计算机,可使用本机的用户界面软件控制机器。
- ② U盘接口:插入储存有MP3或其它格式曲目的U盘,可在本机直接播放。
- ③ 红外接收窗口:用于接收遥控器红外线发出的指令。
- ④ LCD显示屏:显示当前菜单以及菜单下可编辑的参数。
- ⑤ 音量旋钮:分别对话筒、效果、音乐音量进行调节,顺时针旋转逐渐增强,反之逐渐减小。
- ⑥ 功能按键:选择相应的功能并进行调节。本机所有功能在面板上的直观显示,按下相应的按键,就可以进入该参数的设置界面,以下是这些功能按键的功能简介:
  - MUS—音乐参数设置
  - MIC—话筒参数设置
  - EFF—效果参数设置
  - FBX—啸叫抑制参数设置
  - LOAD—预调参数调用
  - INPUT—输入音源选择
- ⑦ 播放控制键:在无线连接播放或U盘播放状态下,可进行上一曲、下一曲、暂停操作。

# EKX-2A 前级效果器

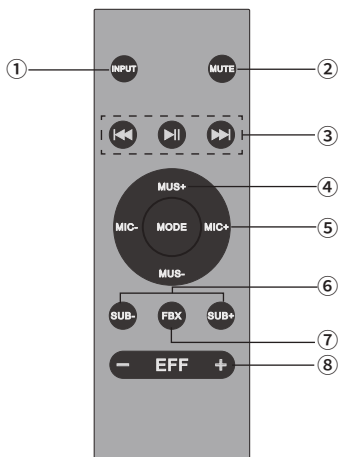
## 背面板



- ① 电源接口:通过带插头的电源线连接市电(~210V-230V/50Hz)为效果器供电。
- ② 电源开关:往“ON”方向拨动接通电源;往“OFF”方向拨动关闭电源。
- ③ 音频输出接口:连接功率放大器或者有源音箱,下面是连接对应的音箱输出接口的功能简介:
  - L—主音箱(左)
  - R—主音箱(右)
  - CEN—中置音箱
  - SUB—超低音箱
  - SURR.L—后置音箱(左)
  - SURR.R—后置音箱(右)
- ④ 音频输入与输出:连接输入设备,如DVD、VCD、点歌机等,一共两组,分别为BGM、AUX。OUT为录音输出接口,可以连接录音设备,如电脑、录音笔、调音台等。
- ⑤ 数字同轴输入:输入数字音频信号。
- ⑥ 数字输入接口:光纤音源的输入。
- ⑦ 麦克风输入:3个麦克风输入插座,每个输入端口上边对应一个输入音量调节。
- ⑧ 天线接口:无线音频接收。

# EKX-2A 前级效果器

## 遥控器



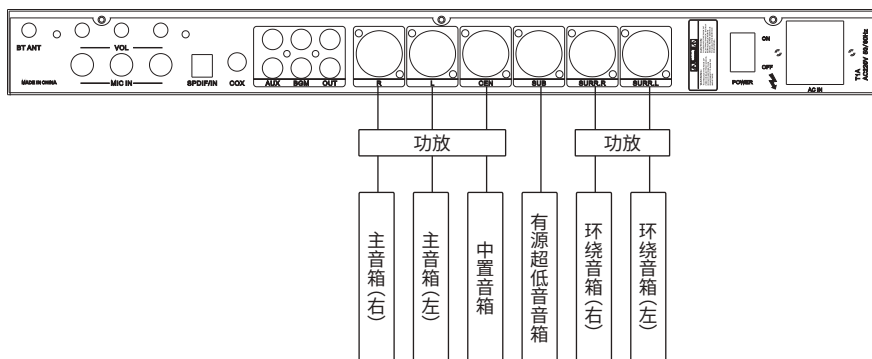
- ① 音源输入切换
- ② 静音按键
- ③ 播放控制
- ④ 音乐音量控制
- ⑤ 麦克风音量控制
- ⑥ 超低音量控制
- ⑦ 啸叫抑制调节
- ⑧ 效果控制

## ■ 使用说明

### 产品的连接与启动

请按照如下步骤完成快速连接和启动,操作之前请确保已关闭本机器和所有功率放大器的电源。

1. 将本产品与系统连接。



# EKX-2A 前级效果器

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2. 接通电源。
3. 在以上操作过程中,建议先将所有功率放大器的音量调至最低,然后再接通功率放大器电源。
4. 信号通过本机器时,在确保功率放大器不削波的前提下,慢慢调高功率放大器的音量到理想听音效果。

注意:为了正确地保护扬声器而不影响其性能,建议您调整音频系统的音量结构并且调节分频器,均衡器和压限器的设置。

## ■ 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. 本产品及配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;
4. 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;
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。

# EKX-2A 前级效果器

## ■ 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 and 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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### 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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# EKX-2A Preamp Effects Processor

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## ■ Preface

Dear Customer,

Thank you for purchasing our product. Read this manual thoroughly to use the product properly.

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

## ■ Features

- Flexible connectivity: optical, coaxial, wireless, USB, RCA inputs.
- Powerful ADI digital audio processing.
- 7-band PEQ stereo EQ on music channel, auto-detect USB digital input.
- Mic noise cancellation, independent compression, 3-stage feedback suppression.
- Effects channel with high/low pass, reverb, 3-band PEQ.
- 7-band PEQ for mic, professional digital reverb for vocals.
- 3-5 band PEQ, mix, polarity, limiting on each output.
- USB computer control with dedicated management software.
- Mic noise gate for conference use.
- 8 savable system presets, last state loaded on power-up.

## ■ Applications

For various KTV installation projects.

## ■ Package Contents

- 1 × Processor
- 1 × Remote Control
- 1 × Power Cord
- 1 × USB Data Cable
- 1 × Antenna
- 1 × User Manual

# EKX-2A Preamp Effects Processor

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## ■ Specifications

### Music Section:

- Signal Sources: Optical, Coaxial, Wireless, USB, RCA
- Input Level: 775mVrms
- Frequency Response: 20Hz-20kHz
- THD: <0.1% (1kHz)
- SNR: >80dB
- PEQ: 1-7 bands

### Center Channel (CEN):

- Input Level: 775mVrms
- Frequency Response: 20Hz-20kHz
- THD: <0.003% (1kHz)
- SNR: >80dB
- PEQ: 1-5 bands

### Subwoofer (SUB):

- Input Level: 775mVrms
- Frequency Response: 20Hz-400Hz
- SNR: >80dB
- PEQ: 1-3 bands

### Mic Section (3 Inputs):

- Input Level: 50mVrms
- Frequency Response: 20Hz-20kHz
- THD: <0.1% (1kHz)
- SNR: >80dB (direct)
- PEQ: 1-7 bands

### Surround Channel (SUR):

- Input Level: 775mVrms
- Frequency Response: 20Hz-20kHz
- THD: <0.003% (1kHz)
- SNR: >80dB
- PEQ: 1-5 bands

### Other:

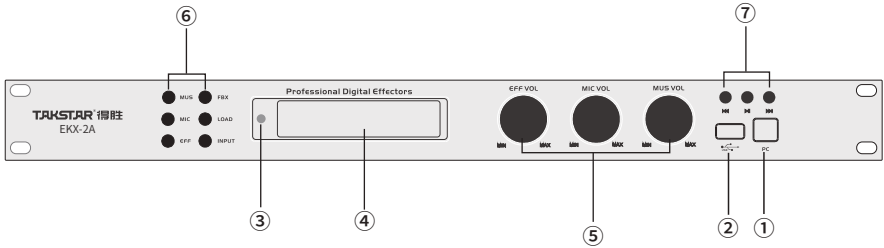
- Computer Connection: USB
- Power Supply: AC200V-240V/50Hz
- Fuse: T1A/250VAC
- Power Consumption: 10W

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

# EKX-2A Preamp Effects Processor

## Function Descriptions

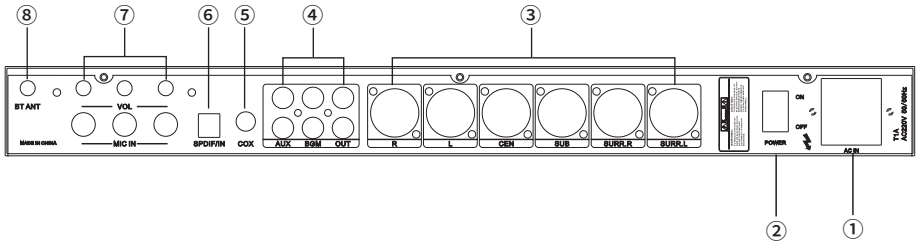
### Front Panel



1. Computer Interface: Connect the unit to a Windows computer to use the control software.
2. USB Port: Insert a USB drive with MP3 or other audio files for direct playback.
3. IR Receiver Window: Receives commands from the infrared remote control.
4. LCD Display: Shows current menu and editable parameters.
5. Volume Knob: Adjusts the volume of mic, effects, and music independently.
6. Function Buttons:
  - MUS: Music parameter settings
  - MIC: Mic parameter settings
  - EFF: Effects parameter settings
  - FBX: Feedback suppression settings
  - LOAD: Recall preset parameters
  - INPUT: Select input source
7. Playback Control Buttons: Previous, next, pause for wireless or USB playback.

# EKX-2A Preamp Effects Processor

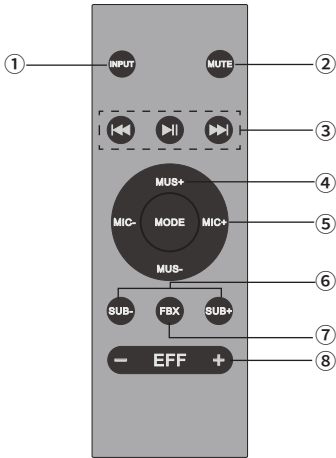
## Rear Panel



1. Power Socket: Connect the power cord to a 210V-230V/50Hz AC outlet to power the unit.
2. Power Switch: Flip to "ON" to power on, "OFF" to power off.
3. Audio Output Jacks: Connect power amp or powered speakers.
  - L/R: Main left/right speakers
  - CEN: Center speaker
  - SUB: Subwoofer
  - SURR.L/SURR.R: Surround left/right speakers
4. Audio Input/Output Jacks:
  - BGM, AUX Inputs: Connect input devices like DVD, VCD, etc.
  - OUT: Recording output, connect to computer, recorder, mixer, etc.
5. Digital Coaxial Input: For digital audio signal input.
6. Digital Input: For optical audio input.
7. Mic Inputs: 3 mic input jacks, each with independent volume control.
8. Antenna Port: Receives wireless audio signal.

# EKX-2A Preamp Effects Processor

## Remote Control



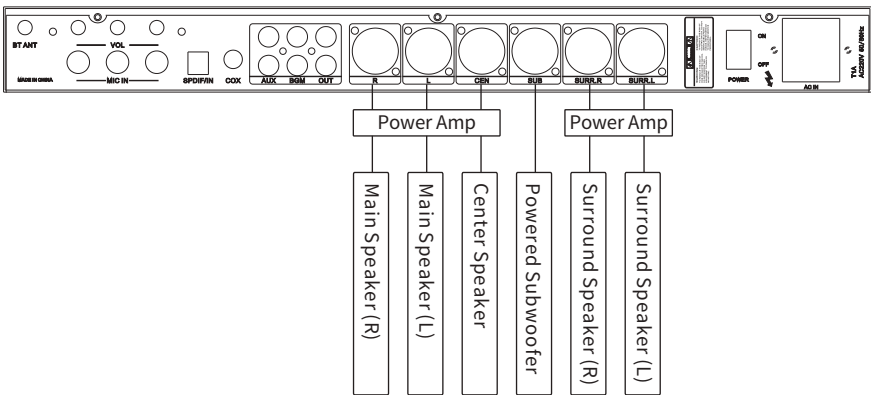
1. Input Source Selection
2. Mute
3. Playback Control
4. Music Volume Control
5. Mic Volume Control
6. Subwoofer Volume Control
7. Feedback Suppression Adjustment
8. Effects Control

## ■ Operating Instructions

### Connecting and Powering On the Product

Please follow these steps to quickly connect and power on the unit. Ensure that the power to this device and all power amplifiers is turned off before proceeding.

1. Connect the product to the system.



# EKX-2A Preamp Effects Processor

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2. Power on the unit.
3. During the above process, it is recommended to first turn the volume of all power amplifiers to the minimum, then power on the power amplifiers.
4. As the signal passes through the unit, slowly increase the volume of the power amplifiers to the desired listening level, ensuring the power amplifiers do not clip.

Note: To properly protect the speakers and maintain their performance, it is recommended to adjust the volume structure of the audio system and set the crossover, equalizer, and limiter accordingly.

## ■ 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. 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.
4. The product must, when installed on walls or ceilings, be fixed firmly in place at adequate strength to prevent from falling.
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 by yourself to avoid injury. If you have any questions or require any services, please contact our local after-sales service.

# EKX-2A Preamp Effects Processor

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## ■ 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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