

# TAKSTAR® 得胜



**MT5** 有源监听音箱  
Powered Studio Monitor

用户手册  
USER MANUAL

## ■ 前言

尊敬的用户：

感谢您选购TAKSTAR MT5录音室近场有源监听音箱，MT5可靠的品质、专业的性能，保证您轻松拥有精准的原声；无论是嘻哈、摇滚以及流行等风格 MT5都将满足您的需求；空间立体声学设计，根据不同工作室需要调整音箱频率响应。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

- 专为录音设计，在工作室获得专业效果；
- 立体声增强效果，有利听觉舒适度；
- 精确的声学校准，具备频率平衡调节；
- 丝膜球顶高音扬声器保证快速的瞬态响应、更多的高频细节以及更好声音清晰度；
- 聚丙烯低音扬声器强劲的低频动态响应
- 可调声学空间滤波设计，优化混合环境下的监听效果；
- 高频滤波器提升或削减相应频段，调节声音的明亮程度；
- 定制内部加强结构，专业MDF箱体经久耐用；
- 专业吸声材料减小杂波优化声场。

## ■ 技术参数

峰值声压级（一对）：108 dB SPL @ 1M/1W

频率响应：57Hz-20kHz (±3dB)

分频：24 dB/octave @ 2kHz

高音：1 inch 蚕丝

低音：5.25 inch 聚丙烯 音盆

高音单元：4Ω 20W/40W（峰值）

低音单元：4Ω 30W/60W（峰值）

功放：Class AB 双功放

输入调节：高频、低频 3 段调试

EQ 调节：高频滤波，声场空间

输入接口：1 x 1/4" TRS, 1 x XLR, 1 x RCA

重量：约4.7kg

尺寸：180mm\*220mm\*280mm（宽x深x高）

注：以上数据由得胜实验室测得并拥有最终解释权。

## ■ 装箱清单

MT5监听音箱.....	1对
三插口电源连接线.....	2根
用户手册.....	1份

## ■ 适用范围

专业录音监听、音乐鉴赏

## ■ 面板功能介绍



① 电源连接和保险丝：将电源线牢固地连接到IEC插座上，并将另一端插入交流电源插座；确保交流电源插座的电压与监听音箱上选择的交流电压一致；

断开插头的接地针脚是危险的，不要这样做！

保险丝位于保险丝盖的后面，在IEC插座的底部；有关更换保险丝的信息，请参阅“故障排除”部分；

② 电压选择开关：默认230V电压，不需要调节，防止出现电压不稳定、突然断电时保险丝自动熔断，保护配件不受损；

③ 电源开关：在打开电源开关之前请确保音量旋钮旋至最小位置，波动电源开关到“ON”位置开启音箱，正面LED白灯长亮，此时音箱已经进入工作状态；

④ 声学空间校准：三挡调节，可调节监听音箱的低频响应，根据监听音箱在室内的不同位置适当补偿；如果您将监听音箱远离墙壁和角落放置（整个空间），请将声学空间开关设置到“0”位置（正常）；如果您将监听音箱靠墙放置（半空间），请将声学空间开关设置到“-2”位置，这将激活一个过滤器，将低频输出降低2dB，以补偿半空间；

如果您把监听音箱放在房间的角落里（1/4空间），请将声学空间开关设置到“-4”位置，将低频输出降低4dB，以补偿1/4的空间；

⑤ 高频滤波调节：该开关对高频响应进行调整，默认情况下将此开关保持在“0”（正常）位置，除非：您只喜欢明亮或昏暗的混音风格，希望使扬声器发出的声音变亮或变暗；

# MT5 有源监听音箱

如果混音听起来过于明亮，可以将高频开关设置到-2db位置来减少监听音箱的高频输出；相反，如果混音始终过于暗淡，可以将高频开关设置到+2db位置增加一些高频来满足您的需要；

⑥输入电平调节：此为输入电平信号控制旋钮，可根据输入端的信号强度调整增益大小；

当电平控制旋钮逆时针调到最左边位置时，为最小输入电平状态；当电平控制旋钮顺时针调到最右边位置时，为最大输入电平状态；（请参阅使用说明部分，了解电平设置步骤）

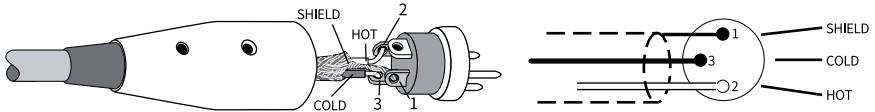
⑦信号输入：将来自混音器或其他信号源的线路电平信号连接到其中一个输入插孔。有三种类型的输入接口可供选择：平衡卡侬XLR，平衡1/4"TRS /非平衡1/4"TS和非平衡RCA。由于这三个接口电路都是连接在一起的，因此不要同时将多个信号连接到输入插座上；

当使用的音频线长度超过6米时，平衡传输接法能够提供良好的噪声抑制，是首选接法；

根据标准，它们的接线如下，由AES（音频工程协会）指定：

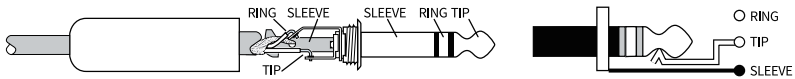
平衡XLR（卡侬）

热（+）引脚2，冷（-）引脚3，屏蔽（接地）引脚1



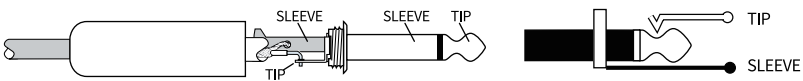
平衡TRS（Φ6.35mm）

热（+）尖端，冷环，屏蔽（接地）套管



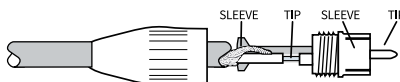
非平衡TS（Φ6.35mm）

热（+）尖端，屏蔽套管



非平衡RCA（莲花插头）

热（+）尖端，屏蔽（接地）套管



⑧倒相孔：倒相孔利用低音扬声器背部辐射的声波来增强音箱的低频效果；倒相孔的大小是根据箱体的容积和低音扬声器特性参数和实际听感所需精心设计的，能产生更好的低频扩展。

⑨正面LED：开启监听音箱电源后，LED灯常亮白灯，此时监听音箱进入工作状态。

## ■ 使用说明

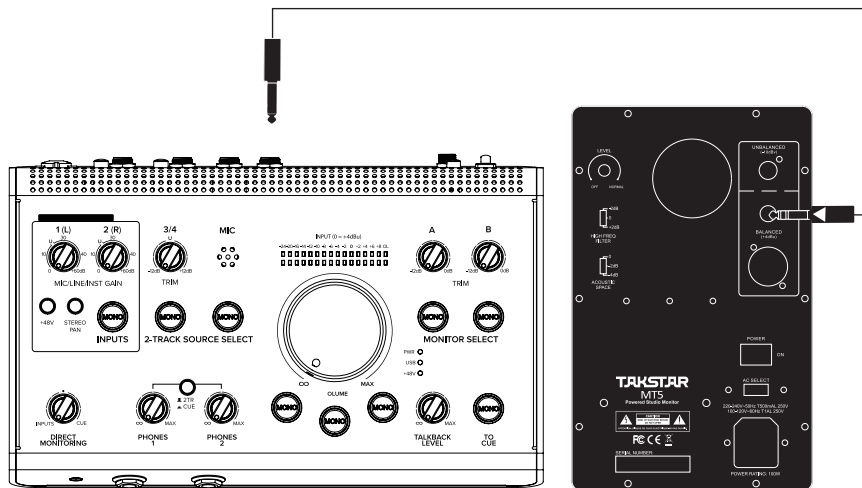
### 1) 快速入门

在您迫不及待的使用产品之前，建议您花点时间阅读此页，其余的内容可以等到您准备好之后再参考；

1. 将监听音箱背面的输入电平控制旋钮逆时针调到最小位置；
2. 通电前，背面电源开关处于关闭状态，防止意外连接的信号源瞬间冲击声对扬声器造成损坏；
3. 将声学空间校准和高频滤波调节的拨扭，调整到正常位置；
4. 将混音器、前置放大器或其他音源设备连接到监听音箱上（1/4"、卡侬或RCA）；
5. 将配送的交流电源线连接到音箱的电源插口。把另一端插入正确配置电压的交流电源插座上；
6. 启动信号源（混音器、CD播放机，DAW或其他），将信号源的音量控制调到最小；
7. 打开监听音箱上的电源开关，正面LED将点亮白灯；
8. 逐步将输入电平控制旋钮顺时针调到合适位置；
9. 将混音器或前置放大器上的主音量调整到舒适的音量；如果监听音箱输出声音太大，请将输入音量控制调低到其中心位置（12点钟方向），然后通过混音器或前置放大器去控制调整音量；

此刻您可以开始享受MT5给您带来的如丝般的高品质声音体验，同时请您继续阅读本手册的其余部分。

### 2) 连接示意图



连接MT5有源监听音箱非常简单，让我们快速查看以下典型的安装连接例子；首先把需要的各种音源信号接入到调音台的输入接口，从调音台主L/R输出连接到MT5有源监听音箱的任意一组输入端口；到此系统连接完毕，您可畅快播放音乐，沉浸其中...感受MT5如何淋漓尽致地展现各种音乐，各种乐器；

## 3) 频率响应控制

诸多因素会影响到MT5的低频扩展，包括房间形状、房间面积和声学处理等。我们对此专门设计了用于优化特定房间的频率响应的补偿控件，请参考以下几点建议：

### 低频响应

当你把监听音箱放在角落或靠墙的时候，低频受各种反射而改变；在靠近墙壁放置时，低频响度会有明显增加，而当放置在角落时，低频响度增强幅度变得更大。

如果监听音箱处于靠墙放置，并希望减少低音，请尝试将声学空间开关设置为-2dB[半空间]位置；如果处于角落，请尝试-4dB[四分之一空间]的位置。

### 高频响应

MT5具有平滑的中高频响应范围，您可以根据混音需要进行调节，减弱时声音变暗，增强时声音将变得明亮。

### 其它建议

- 不要长时间在大音量下听音乐，关于听力保护的相关信息请参阅注意事项部分的说明；
- 关闭设备时，请先关闭MT5监听音箱，防止前级设备产生的高电冲冲击声电信号对音箱造成损坏；开启设备电源时，监听音箱应在所有设备中最后打开。

## 保护电路

MT5监听音箱具有几种保护机制，以保护扬声器和放大器意外损坏；

注意：保护电路的设计是为了防止在合理条件下损坏扬声器。如果您忽视警告标志（即声音已过度失真），仍然过度播放造成扬声器损坏，将不在保修范围内的。

### 1.过偏移保护

一个12db/倍频程的高通滤波器设计在低频放大器之前，可有效防止极低频被放大。过度低于可用频率范围的低频能量会损坏低音扬声器，也称为过激励。

### 2.热保护

所有的放大器都会产生热量，监听音箱在控制设备发热方面采用热保护线路；

如果由于某种原因散热片过热，将启动热开关并关闭放大器；此保护装置独立于低频和高频放大器工作；当散热器冷却到安全温度时，热开关复位，恢复正常工作；

如果散热器温度再次过高，关闭过程将重复，如果发生这种情况，请确保流向箱体后面的气流不受限制。

### 3.集成磁屏蔽

MT5监听音箱包含磁性结构。扬声器的磁铁是没有被屏蔽的。如果将扬声器放置在离CRT（阴极射线管）太近的地方，可能会导致图像的抖动和颜色失真；如果你有特别敏感的电脑显示器或电视屏幕，则可能需要将监听音箱与电脑显示器或电视屏幕保持约20厘米的距离。

# MT5 有源监听音箱

## 4. 输入信号接线

我们建议使用高质量屏蔽音频线将信号源连接到监听音箱上的信号输入插孔；

提供三种类型的输入接口满足各种音源设备的连接：

平衡卡侖（XLR）输入；

平衡（TRS）/非平衡（TS）输入；

非平衡RCA输入。



注：将音频线与交流电源线分开，高电压的交流电会使音频线中产生干扰电信号。

注意：请勿尝试将扬声器输出直接连接到监听音箱的输入！扬声器电平远高于线路电平，会损坏监听音箱的输入电路；

不过，您可以在扬声器输出和MT5监听音箱输入之间插入一个电平信号衰减器进行信号衰减。您可以从本地授权经销商处寻求帮助。

## ■ 护理清洁

- 避免监听音箱受潮；
- 避免暴露在极冷（低于冰点）的温度下；
- 关闭电源，使用干布清洁设备。

## ■ 故障排除

如果您认为您的MT5监听音箱有问题，请尝试按以下故障排除的方法处理。如果问题仍然没得到有效解决，建议您联系我们当地的经销商处理。

### 断电

- 1.是否已插上电源？
- 2.确保电源线牢固地固定在IEC插座中，并插入到交流电源插座；
- 3.确保交流电源插座通电（用测试仪或灯检查）；
- 4.背面电源开关是否处于打开位置；
- 5.正面的LED是否点亮？如果没有，请确保交流电源插座通电。如果有，请参阅本使用手册的“没有声音”故障排除部分；
- 6.如果电源指示灯不亮，并且您确定交流电源插座通电，则保险丝可能熔断了；

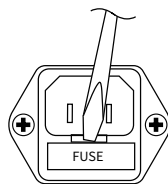
### 拆卸和更换保险丝：

- 1.断开电源线与IEC插座的连接；
- 2.用小螺丝刀撬开保险丝盒，将其拆下（如右图）；
- 3.拆下保险丝并更换同类型保险丝；

230V AC: T500mA/250V

115V AC: T1A/250V

- 4.将保险丝抽屉全部推入IEC插座，如果保险丝连续烧掉，那问题就比较大了，建议您联系当地经销商进行保修。



## 没有声音

- 1.正面的电源LED是否点亮？如果没有，请参阅故障排除的“断电”部分；
- 2.输入电平控制是否打开？
- 3.信号源是否打开？确保从混音器（或其它音源设备）的信号电平输出足够大；
- 4.如果是其中一只音箱不响，请尝试将信号线对调；例如，如果左边音箱不响，将右边音频输入线接到左边音箱，还是没声音的话，那么很可能这只音箱是坏的。

## 声音异常

- 1.输入连接器是否完全插入插孔？如果使用1/4”（Φ6.35mm）插头，请确保是连接到位的；
- 2.是不是声音很大而且失真？请降低混音器的电平信号；
- 3.如果可能的话，将耳机接到前置放大器收听信号源，如果听起来同样不好，那就不是监听音箱的问题了；
- 4.低音太多或是不够？将音箱移到不同的位置，看看低音是否变化；有可能您的收听位置与房间模式一致，在这种模式下，低频率要么被夸大，要么被抵消；如果是的话，请尝试将监听音箱移到不同的位置，或者更换您的听音位置。

## 噪音/嗡嗡声

- 1.检查混音器和监听音箱之间的信号电缆，确保所有连接都安全，这些问题通常会产生啞啞声或嗡嗡声；
- 2.如果将非平衡输出连接到MT5监听音箱的平衡输入，请确保将屏蔽层连接到信号源的非平衡接地以及卡侬的引脚1和3；
- 3.如果有有线电视电缆已连接到系统，请尝试断开它。如果嗡嗡声消失了，请检查电缆是否正确接地；
- 4.确保信号电缆未靠近交流电缆、电力变压器或其他电磁干扰源，这些来源通常容易产生嗡嗡声；
- 5.与监听音箱相同的交流电路上是否有调音器？调音器会发出嗡嗡声；请使用交流电源滤波器或将监听音箱插入到其他交流电路上；
- 6.过高的嘶嘶声表示监听音箱前面某个音源设备增益设置不正确；
- 7.如果可能的话，插入耳机收听信号源。如果信号源听起来就有噪音，说明不是监听音箱的问题。



## ■ 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；
- 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.本产品及附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.在雷暴期间或长时间不使用时，请拔下本设备的插头；
- 5.请勿使用墙壁插座或延长线过载，否则可能会导致风险火灾或电击；
- 6.不要破坏安全目的接地插头，如果提供的插头不适合您的插座，请咨询电工更换；
- 7.保护电源线不被踩到或挤压，尤其是插头、插座以及它们与电源线连接的位置；
- 8.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；
- 9.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；
- 10.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,未经同意对本设备进行自行拆机改装或维修，可能会失去由得胜公司提供的保修服务；
- 11.请使用制造商指定的附件；
- 12.警告：本设备为I类结构设计，须通过保护接地连接（第三个接地叉）连接到电源插座。
- 13.根据FCC规则第15部分的规定，该设备经过测试，符合B类数字设备的限制；这些限制旨在提供合理的保护，防止住宅设施受到有害干扰；该设备产生、使用和辐射射频能量，如果不按照说明安装和使用，可能对无线电通信造成有害干扰；但是，不能保证在特殊安装中不会发生干扰；如果本设备确实对无线电或电视接收造成有害干扰，可通过关闭或打开设备来排除，用户可尝试通过以下一种或多种措施来纠正干扰：
  - 重新定向或重新定位接收天线；
  - 增加设备和接收器之间的间隔；
  - 将设备连接到与接收器连接电路不同的电路上的插座中；
  - 咨询经销商或有经验的无线电/电视技术人员以获得帮助；
- 14.任何超过允许限度的噪声都可能导致一定的听力损失；为了防止暴露在高声压级下的潜在危险，建议在设备运行期间，所有接触到能够产生高声压级设备的人员使用听力保护器；当操作设备时，必须佩戴耳塞或耳道上方的保护装置；
15. 本产品不得遭受水滴或水溅，产品上不得放置诸如花瓶类的装有液体的物品；
16. 设备仅适用于海拔2000米及以下地区安全使用；
17. 设备仅适用于非热带气候条件下安全使用,最高工作环境温度为:35℃。

# MT5 有源监听音箱

此分贝 (dB) 表对某些常见声音进行比较, 并列出了他们可能对听力的潜在危害等级;

声音来源	噪声等级	听力影响
低声细语	30dB	非常安静
安静的办公室	50-60dB	舒适的听力级别在60dB以下
吸尘器/吹风机	70dB	有一定入侵性, 造成干扰妨碍电话交谈
食物料理机	85-90dB	85dB是开始造成听力受损 (连续8小时) 的级别
垃圾清理机 混凝土搅拌机	100dB	建议无保护措施而暴露在90-100dB声音之下的时间不要超过15分钟
电锯/电钻	110dB	经常暴露于超过100dB的声音1分钟以上会有听力受损的风险
摇滚音乐会 (因情况而异)	110-140dB	感觉疼痛的阈值在120dB左右开始

## ■ 关于图标含义的解释

触电危险, 请勿打开



该图标提醒用户注意产品外壳内存在未绝缘的“危险电压”, 这种电压可能对人员造成电击危险;



该图标提醒用户注意本设备的重要操作和维护 (维修) 说明;



该图标表示设备仅适用于海拔2000米及以下地区安全使用;



该图标表示设备仅适用于非热带气候条件下安全使用, 最高工作环境温度: 35°C;



正确处理本产品:

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。

# MT5 Powered Studio Monitor

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## ■ Preface

Dear Customer,

Thank you for purchasing TAKSTAR MT5 studio monitor speaker cabinet. MT5 features reliable quality and professional performance to reproduce the original sound. MT5 can meet your requirement no matter it's hip-hop, rock & roll. User can adjust frequency response according to different studio space.



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.

## ■ Features

- Tailored for recording and achieved professional effect in the studio;
- Stereo boosts the effect and listening;
- Accurate acoustic calibration, frequency bal adjustment
- Silk dome speaker ensures quick transient response and more HF details and clearer sound.
- Polypropylene woofer, powerful LF dynamic response
- Adjustable filtering design, optimized monitoring effect
- HPF boosts or decays the relative frequency band, and adjusts the sound brightness
- Customized structure, durable MDF enclosure
- Acoustic foam decreases noise and optimizes the sound field

## ■ Specification

Peak SPL (one pair) : 108 dB SPL @ 1M/1W

Frequency Response: 57Hz-20kHz ( $\pm 3$ dB)

Crossover: 24 dB/octave @ 2kHz

HF: 1 inch silk dome

LF: 5.25 inch polypropylene cone

HF Unit: 4 $\Omega$  20W/ 40W (peak)

LF Unit: 4 $\Omega$  30W/60W (peak)

Power Amp: Class AB dual amp

Input Adjustment: HF, LF 3 band adjustment

EQ: HF filter

Input Connector: 1 x 1/4" TRS, 1 x XLR, 1 x RCA

Weight: approximate 4.7kg

Dimension: 180mm\*220mm\*280mm (W x Dx H)

Note: The above data are obtained by Takstar Laboratory and have the right of final interpretation has the right of final interpretation.

## ■ Product content

MT5 monitor speaker cabinet..... 1 pair  
Power cord..... 2 pcs  
User manual..... 1 pcs

## ■ Application

pro recording monitoring, music appreciation;

## ■ Function instruction



① Power connection and fuse: firmly connect the power cord with the IEC socket, and insert the other end into the AC power socket. Ensure that the voltage of the AC power socket is consistent with the AC voltage selected on the monitor speaker cabinet.

It is dangerous to disconnect the ground pin of the plug. Do not do it!

The fuse is located at the back of the fuse cover, at the bottom of the IEC socket. For information on replacing the fuse, refer to the "trouble shooting" section;

② Voltage selection switch: the default voltage is 230V, which does not need to be adjusted, so as to prevent the fuse from fusing automatically in case of voltage instability and sudden power failure, and protect the accessories from damage;

③ Power switch: before turning on the power switch, please make sure that the volume is turned to the minimum position. When the power switch is turned to the "ON" position, it turns on the speaker. The LED on the front keeps lighting up white, indicating that the speaker has entered the working state

④ Acoustic space calibration: three step adjustment, which can adjust the low frequency response of the monitor speaker, and make appropriate compensation according to the different positions of the monitor speaker in the room. If you put the monitor speaker away from the wall and corner (the whole space), please set the switch to the "0" position (normal). If you put the monitor speaker against the wall (half space), please set the switch to "- 2" position, which will activate a filter and reduce the low-frequency output 2dB to compensate for half space. If you put the monitor speaker in the corner of the room (1 / 4 of the space), please set the acoustic space switch to "- 4" position to reduce the low-frequency output 4dB to compensate for 1 / 4 of the space.

# MT5 Powered Studio Monitor

⑤ HF filter adjustment: this switch adjusts HF response. It defaults that this switch is kept in the "0" (normal) position, unless: You only like bright or dark mixing style. You want to make the sound from the speakers bright or dark. If the mixing sounds too bright, you can set the high-frequency switch to - 2dB position to reduce the high-frequency output of the monitor speaker. On the contrary, if the mixing is always too dim, you can set the high-frequency switch to + 2dB position to increase some high-frequency to meet your needs.

⑥ Input level adjustment: This is the input level signal control knob, which can adjust the gain according to the signal level of the input.

When the level control knob is turned to the leftmost position anticlockwise, it is the minimum input level state. When the level control knob is turned to the rightmost position clockwise, it is the maximum input level state (please refer to the operation instructions for the level setting steps).

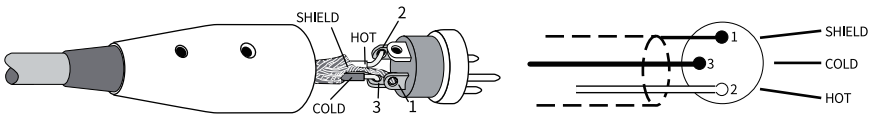
⑦ Signal input: connect the line level signal from the mixer or other signal source to one of the input jacks. There are three types of input options: balanced XLR, balanced 1 / 4 "TRS / unbalanced 1 / 4 " ts, and unbalanced RCA. Since the three interface circuits are all connected together, do not connect multiple signals to the input socket at the same time.

When the cable length is more than 6 meters, balanced transmission connection can provide good noise suppression and is the preferred connection method.

According to the standard, their wiring is as follows, designated by AES (Audio Engineering Society):

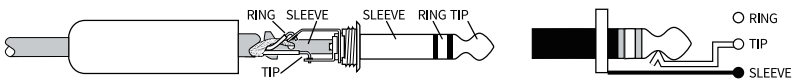
Bal XLR

Hot (+) pin 2 , cold (-) pin 3, shield (ground) pin 1



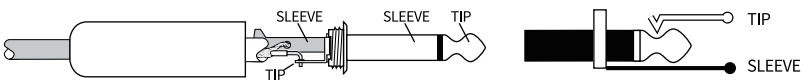
Bal TRS (Φ6.35mm)

Hot (+) tip, cold, shield (ground) sleeve



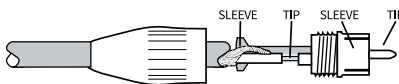
Unbal TS (Φ6.35mm)

Hot (+) tip, shield sleeve



Unbal RCA

Hot (+) tip, shield (ground) sleeve



⑧ Vent tube: the vent tube boosts bass effect of the speaker cabinet.

⑨ LED: turn on the power switch, and LED lights up white. This means the speaker cabinet enters into operation status.

# MT5 Powered Studio Monitor

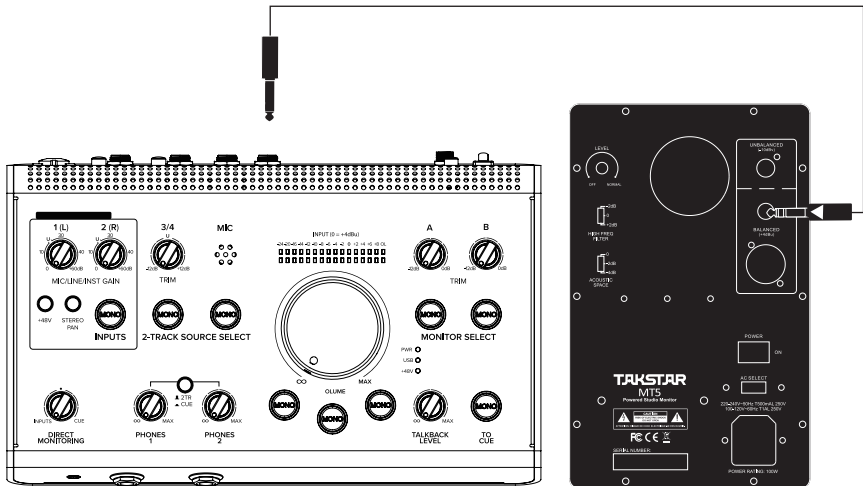
## ■ Operation

### 1) Quick start

Read this part carefully before operation please.

1. Turn the input level control knob of the monitor speaker counterclockwise to the minimum position.
2. Before power on, turn off power switch to prevent from the damage by power surge.
3. Set the calibration/filter switch to normal position.
4. Connect mixer, preamp or other audio equipment with monitor speaker cabinet (1/4", XLR or RCA) .
5. Connect one end of power cord with speaker cabinet power socket, and the other end with AC socket.
6. Turn on the audio source (mixer, CD player, DAW or other equipment). Set the volume control to minimum position.
7. Turn on the monitor speaker cabinet. LED on front panel lights up white.
8. Set the input level control clockwise to proper position.
9. Set the master volume control of mixer or preamp to proper position. If the speaker volume is too high, decrease the input volume, and then adjust the volume control of mixer of preamp.

### 2) Connection diagram



At first, connect audio source signal with mixer input connector, and then connect mixer L/R output with the input connector of MT5, and then you can play and enjoy the music.

## 3) Frequency response control

Many elements have impact on the LF expansion. We design compensation control to optimize the frequency response.

When you place the monitor speaker in the corner or against the wall, the low frequency is changed by various reflections. When you place it near the wall, the low frequency loudness will increase significantly, and when you place it in the corner, the low frequency loudness will increase even more.

If the monitor speaker is placed against the wall and you want to reduce the bass, set the filter switch to -2dB. If the speaker cabinet is placed in the corner, set the switch to -4dB.

## HF response

MT5 has a flat MFHF response range. You can adjust it according to the mixing needs. When it is weakened, the sound will be dimmed, and when it is enhanced, the sound will be bright.

## Other suggestions

- Do not listen to music at high volume for a long time. For information about hearing protection, please refer to the notes section.
- When turning off the equipment, please firstly turn off the MT5 to prevent the high-level surge by the previous level equipment from damaging the speaker cabinet. When turning on the power supply of the equipment, turn on speaker cabinet at last.

## Protection circuit

MT5 has the protections below to protect the speaker cabinet and amplifier.

Note: the protection circuit is designed to prevent damage to the speaker under reasonable conditions. If you ignore the warning sign (i.e. the sound has been over distorted) and still over play to cause speaker damage, it will not be covered by the warranty.

### 1.Over shift protection

A 12dB /Oct HPF is designed in front of the LF amplifier to effectively prevent the extremely low frequency from being amplified. Excessive low-frequency energy below the available frequency range can damage the woofer, also known as over-excitation.

### 2.Thermal protection

All amplifiers will generate heat. The monitoring speaker uses thermal protection circuit for protection.

If the heat sink overheats for some reason, the thermal switch will be started and the amplifier will be turned off. The protection device is independent of LF and HF amplifier operation.

When the heat sink cools to a safe temperature, the thermal switch resets and returns to normal operation.

If the heat sink temperature is too high again, the closing process will repeat. If this happens, make sure that the air flow to the back of the enclosure is limited.

### 3.Magnetic shield

MT5 monitor speaker cabinet contains a magnetic structure. The speaker magnet is not shielded. If the speaker cabinet is placed too close to CRT, it may cause image jitter and color distortion. If you have a particularly sensitive computer monitor or TV, you may need to keep the monitor speaker about 20cm away from the computer monitor or TV.

# MT5 Powered Studio Monitor

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## 4. Input signal connection

We recommend using high quality shielded audio cable to connect the signal source to the signal input connector on the monitor speaker cabinet.

Three types of input connectors are provided to meet the connection of various audio source devices:

Bal XLR input

Bal (TRS) /unbal (TS) input;

Unbal RCA input

Note: separate the audio cable from the AC power cord. High voltage AC will cause interference in the audio cable.



Caution: do not try to connect the speaker output directly with the input of the monitor speaker cabinet! The level of the speaker is much higher than the line level, which will damage the input circuit of the monitor speaker cabinet.

However, you can insert a level signal attenuator between the speaker output and the MT5 monitor speaker input. You can ask for help from an authorized local dealer.

## ■ Cleaning

- Avoid the monitor speaker being affected by moisture.
- Avoid exposure to extremely cold (below freezing) temperatures;
- Turn off the power switch and clean the equipment with a dry cloth.

## ■ Trouble shooting

If you think there is a problem with your MT5 monitor, please try the following troubleshooting methods. If the problem still hasn't been solved effectively, we suggest you contact our local dealer.

Power failure

1. Is the power supply plugged in?
2. Ensure the power cord is firmly fixed in the IEC socket and inserted into the AC socket;
3. Ensure that the AC power socket is powered on (check with a tester or lamp).
4. If the power switch set to ON.
5. Is the front LED on? If not, make sure the AC outlet is powered. If yes, refer to the "no sound" Troubleshooting section of this user manual;
6. If the power LED is not on, and you are sure that the AC power socket is powered on, the fuse may be broken;

Removing and replacing fuses:

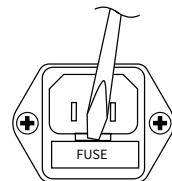
1. Disconnect the power cord from the IEC socket;
2. Use a small screwdriver to open the fuse holder and remove it (as shown in the right figure);

3. Remove the fuse and replace the fuse of the same type;

230V AC:T500mAL/250V

115V AC: T1A/250V

4. Push the fuse holder into the IEC socket. If the fuse burns continuously, the problem will be serious. It is recommended that you contact your local dealer for maintenance.





## No sound

1. Is the power LED on? If not, refer to the "power failure" section of troubleshooting.
2. Is input level control on?
3. Is the signal source on? Ensure that the signal level output from the mixer (or other sound source equipment) is high enough.
4. If one of the speakers has no sound, please try to adjust the signal cable. For example, if the left speaker has no sound, connect the right audio input cable with the left speaker. If it still has no sound. This speaker must be broken.

## Abnormal sound

1. Is the input connector fully plugged into the socket? If 1 / 4 " (Φ 6.35mm) plug is used, make sure it is connected fully.
2. Is it loud and distorted? Please reduce the signal level of mixer;
3. If possible, connect the headphones to the preamplifier to listen to the signal source. If it sounds still bad, it's not a problem of monitor speaker.
4. Too much or not enough bass? Move the speakers to different positions to check if the bass changes. It is possible that your listening position is the same as the room mode, in which the low frequency is either exaggerated or offset; if so, try to move the monitor speakers to different positions or changing your listening position.

## Noise / buzz

1. Check the signal cable between the mixer and the monitor speaker to make sure all connections are secure. If not, these problems usually produce crackling or buzzing.
2. If you connect the unbalanced output to the balanced input of the MT5 monitor speaker, make sure to connect the shield layer to the unbalanced ground of the signal source and pin 1 and 3 of the XLR.
3. If the cable is connected to the system, try to disconnect it. If the buzz disappears, check that the cable is properly grounded.
4. Ensure that the signal cable is not close to the AC cable, power transformer or other electromagnetic interference sources, otherwise it leads to generate buzz.
5. Is there a tuner on the same AC circuit of the monitor speaker? The tuner generates buzz. Please use the AC power filter or insert the monitor speaker into other AC circuit.
6. A high hiss indicates that the gain setting of a sound source device in front of the monitor speaker is incorrect.
7. If possible, plug in the headset to listen to the signal source. If the signal source sounds noisy, it's not a problem with the monitor speaker.

## ■ Caution

To avoid electric shock, over temperature, catching fire, explosion, mechanical risk and hurt or property loss caused by improper use, please read the following items carefully before operation:

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 a long time to avoid abnormal functioning or hearing loss.
2. If abnormal phenomenon (smoke, abnormal smell) happens, please turn off the power switch and disconnect the power plug with power socket, 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 liquid, rain, water, over-colliding, throwing, vibrating, vent hole covered to avoid function destroyed.
4. Please unplug the device during thunderstorm or when it is not used for a long time;
5. Do not overload the wall socket or extension cable, otherwise it may cause fire risk or electric shock;
6. Do not damage the grounding plug for safety purpose. If the plug provided is not suitable for your socket, please consult the electrician for replacement;
7. Protect the power cord from being stepped on or squeezed, especially the plug, socket and the position where they are connected with the power cord;
8. When the product needs to be installed on wall or ceiling, please fix it tightly to avoid dropping risk.
9. Please abide by safety rules during operation. Do not use the product in the place prohibited by regulation or law to avoid accident.
10. Do not disassemble or repair the product by yourself to avoid hurt. If you have question or need service, please contact the local dealer.
11. Only use the supplied power adapter or equivalent.
12. Warning: This equipment is of class I structure design, and must be connected to the power socket through the protective grounding connection (the third grounding pin).
13. In accordance with part 15 of the FCC rules, the device has been tested to comply with the restrictions for class B digital devices. These restrictions are designed to provide reasonable protection against harmful interference to residential facilities. The device generates, uses and radiates radio frequency energy, which, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that special installation has no interference. If the equipment does cause harmful interference to radio or TV reception, it can be eliminated by turning off or on the equipment, and the user can try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the range between the equipment and the receiver.
  - Connect the device to a socket on a circuit different from the receiver connection circuit.
  - Consult the dealer or experienced radio / TV technician for assistance.
14. Any noise exceeding the allowable limit may cause certain hearing loss. In order to prevent the potential risk of exposure to high sound pressure level, it is recommended that all personnel exposed to equipment capable of producing high sound pressure level shall use hearing protectors during equipment operation period. When operating the equipment, ear plugs or protective devices above the ear canal must be worn.
15. The product shall not be subject to water drops or splashes, and items containing liquid such as vases shall not be placed on the product;
16. The equipment is only suitable for safe use in areas with an altitude of 2000 meters and below;
17. The equipment is only suitable for safe use in non-tropical climate. The maximum working environment temperature is 35 °C.


# MT5 Powered Studio Monitor


This decibel (dB) table compares some common sounds and lists their potential levels of harm to hearing;


Sound from	Noise level	Hearing impact
whisper	30dB	Very quiet
A quiet office	50-60dB	Comfortable hearing level below 60dB
Vacuum cleaner / blower	70 dB	It has certain invasiveness, causing interference and hindering telephone conversation
Food processor	85-90 dB	85 is the level at which hearing loss (8 hours in a row) begins
Garbage cleaner Concrete mixer	100 dB	It is recommended not to expose to 90-100db sound for more than 15 minutes without protective measures
Electric saw / drill	110 dB	Risk of hearing loss if exposed to more than 100dB for more than 1 minute
Rock & roll concert (varies by situation)	110-140 dB	The threshold of pain starts at about 120dB


Risk of electric shock, do not open




 The icon reminds the user that there is uninsulated "dangerous voltage" in the product housing, which may cause electric shock to personnel.

 The icon reminds the user of important operation and maintenance (repair) instructions of the equipment.

 This icon indicates that the equipment is only suitable for safe use in areas with an altitude of 2000 meters and below.

 The icon indicates that the equipment is only suitable for safe use in non tropical climate, and the maximum operation environment temperature is 35 °C;



 Dispose the product correctly:

This symbol indicates that according to WEEE Directive (2012/19/EU) and national laws, this type of waste will have potential harmful substances, which may have a negative impact on the environment and human health, so this product should not be disposed together with your household waste, and should be handed over to the authorized electrical and electronic equipment (WEEE) recycling station for recycling. At the same time, when you dispose this product correctly, it will help the effective use of natural resources. For more information on where you can place your waste recycling equipment, please contact your local city office, Waste Management Bureau or household waste treatment service.



## 产品服务保证书

### 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)。

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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