

MP73a 500系列话筒放大器
 MP73a 500 Series Microphone Preamplifier

用户手册

Owner's Manual

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IMPORTANT SAFETY INSTRUCTIONS

	<p>CAUTION</p> <p>RISK OF ELECTRIC SHOCK DO NOT OPEN RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR</p> <p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED PERSONNEL</p> <p>ATTENTION: POUR EVITER LES RISQUES DE CHOC ELECTRIQUE. NE PAS ENLEVER LE COUVERCLE. AUCUN ENTRETIEN DE PIECES INTERIEURES PAR L'USAGER. CONFIER L'ENTRETIEN AU PERSONNEL QUALIFIE.</p> <p>AVIS: POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, N'EXPOSEZ PAS CET ARTICLE A LA PLUIE OU A L'HUMIDITE.</p>	
		
		

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure, that may be of sufficient magnitude to electric shock to persons. Le symbol clair avec point de flèche l'intérieur d'un triangle équilatéral est utilisé pour alerter l'utilisateur de la présence l'intérieur du coffret de voltage dangereux non isolé d'ampleur suffisante.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. Le point d'exclamation l'intérieur d'un triangle équilatéral est employé pour alerter les utilisateurs de la présence d'instructions importantes pour le fonctionnement et l'entretien (service) dans le livret d'instruction accompagnant l'appareil.

1. Read this manual thoroughly before using this unit.
2. Keep this manual for future reference.
3. Take notice of and comply with all warnings included in the user's manual or indicated on the appliance.
4. Follow all instructions included in this manual.
5. Do not expose this unit to rain or moisture. Avoid having water or other liquids spilled on this unit.
6. When cleaning the cabinet or other parts of this appliance, use only a dry or slightly damp soft cloth.
7. Do not block any ventilation openings or interfere with the proper ventilation of this unit. Install in accordance with the manufacturer's instructions.
8. Do not use or store near any heat sources such as radiators, heat registers, stoves, or other heat-producing appliances.
9. Do not interfere with the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. These are designated for your safety. If the provided plug does not fit into your outlet, consult an electrician.
10. Protect the power cord from being walked on or otherwise damaged by items placed on or against them. Particular attention should be given to the plugs, receptacles, and the point where the cord exits the appliance.
11. To avoid the risk of electrical shock, do not touch any exposed wiring while the unit is in operation.
12. Only use attachments/accessories specified by the manufacturer.
13. Unplug this unit and all connected electrical equipment during lightning storms or when left unused a long period of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the appliance has been damaged in any way or fails to operate normally.

WARNING: To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture

UNPACKING AND INSPECTION

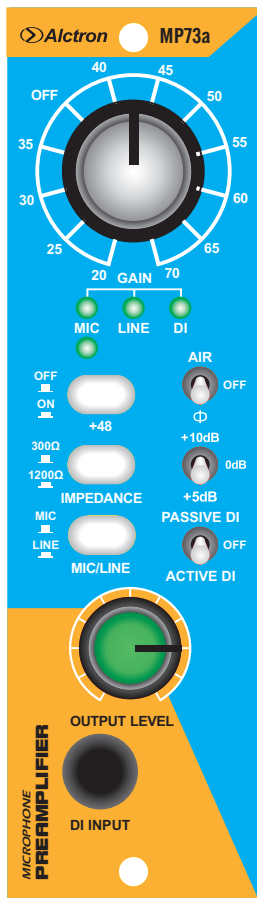
Carefully unpack your MP73a mic preamp. Do not discard any packing materials! If anything is missing or damaged, contact your dealer or Alctron immediately.

Items included with the EQ73a are:

- MP73a mic preamp
- Set of instructions

The MP73a is a mic preamp of exceptional sonic clarity and rugged construction. When used in accordance with the guidelines in this manual it will give you many years of outstanding performance.

GENERAL DESCRIPTION

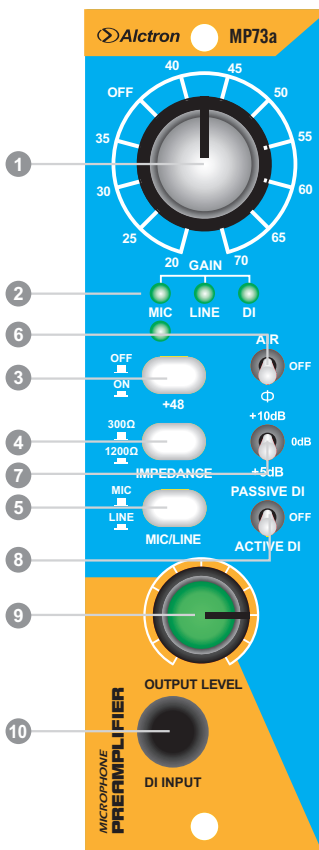


The MP73a is a 500 Series microphone preamp it is a one-channel vintage style microphone, line and instrument preamplifier. The signal path uses only discrete components like resistors, capacitors and transistors. The microphone and line input and the line output are transformer balanced, using two different transformers, each one optimized for its purpose. Great use for guitars, bass, keyboards and other instruments.

The circuit used in the MP73a is similar to the preamp section in the classical 1073 module with a corresponding sound character that is warm, punchy, sweet and musical. These classic characteristics have been heard on countless recordings through the years and it is a versatile sound that works very well on most sound sources and in most genres. The essence of this sound is now available at a surprisingly low cost, making it available to nearly everyone.

- * Vintage Style electronics, no integrated circuits in the signal path
- * Transformer balanced, fully floating output
- * Enough microphone gain to handle passive ribbon microphones with quiet sound sources
- * Total gain range from -15 to +80 dB
- * Switchable impedance on microphone input, 1200 or 300 ohms
- * Switchable phantom power with a LED indicator
- * A flexible front panel instrument input for additional sound sources
- * Make fine gain adjustments and overload the main gain stage(s) for more character
- * Phase switch
- * Selectable AIR equalizer adds a small boost above 10 kHz
- * Selectable 600 ohm Output Termination at the back of the module
- * Compatible with 500 series rack formats
- * 48 volt Phantom Power

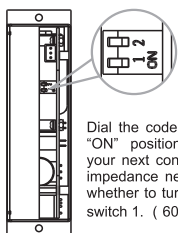
FRONT PANEL



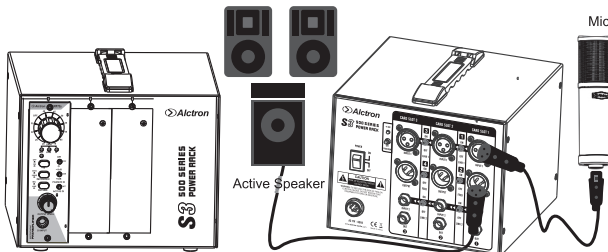
- 1, Gain Control-adjust the input gain for input signals on inputs respectively.
- 2, Signal Lights-the LED lights indicating the signal of mic, line or DI from the inputs.
- 3, 48V Switch - phantom power switch for mic inputs.
- 4, Impedance-impedance selector Switch on the mic input mode. 300 Ohm & 1200 Ohm can be selected. You can choose one of them according to the output impedance of the microphone you used. For most of condenser mic and some dynamic mic, you can select 300 Ohm, for other microphones, If you don't know the output impedance, press the switch to 1200 Ohm.
- 5, MIC/LINE Selectable-switch for the MIC/LINE input source.
- 6, Polarity Switch-switches the output phase 180 degrees.
- 7, 5dB and 10 dB Pad-attenuates both the mic and HI-Z input 5dB and 10dB.
- 8, DI input switch-used for selecting the DI mode(Active and Passive). The MIC/LINE switch must be in the position of MIC, that the DI input will work.
- 9, Output Level-control output level.
- 10, DI Input-1/4-inch input connector for connection instrument level signals.

CONNECTION OF MP73a

USE INDEPENDENTLY

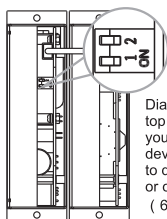


Dial the code switch 2 to the "ON" position. According to your next connecting devices' impedance needing to decide whether to turn on or off code switch 1. (600Ω/10k)

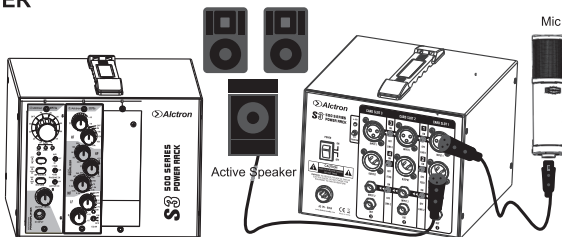


1. Insert MP73a into CARD SLOT1;
2. Use a 3-pin cable to connect MP3/PC and CARD SLOT1 INPUT connector on S3's rear panel;
3. Use a 3-pin cable to connect power amp or active speaker and CARD SLOT1 INPUT connector on S3's rear panel;
4. Plug the S3's adaptor and dial S3's POWER to ON position.

MP73a AND EQ73a USE TOGETHER



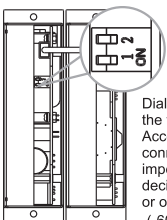
Dial the code switch 2 to the top position. According to your next connecting devices' impedance needing to decide whether to turn on or off code switch 1. (600Ω/10k)



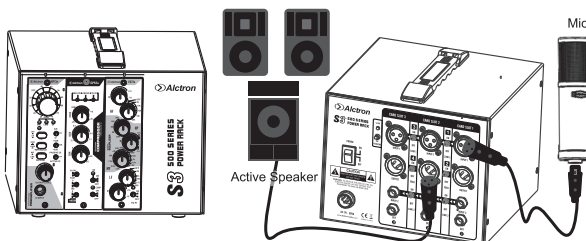
1. Use a 2-pin shielded cable to connect MP73a and EQ73a, only in this situation can EQ73a work in a normal way;
2. Insert MP73a into CARD SLOT1 and insert EQ73a into CARD SLOT2;
3. Use a 3-pin cable to connect mic and CARD SLOT1 INPUT connector on S3's rear panel;
4. Use a 3-pin cable to connect power amp or active speaker and CARD SLOT1 INPUT connector on S3's rear panel;
5. Turn on ON/OFF switch on EQ73a's panel;
6. Dial the switch1 to ON position;
7. Plug the S3's adaptor and dial S3's POWER to ON position.

NOTE: when mic need 48V phantom to offer power you should turn on 48V phantom on S3 and MP73a at the same time.

MP73a, CP52a AND EQ73a USE TOGETHER



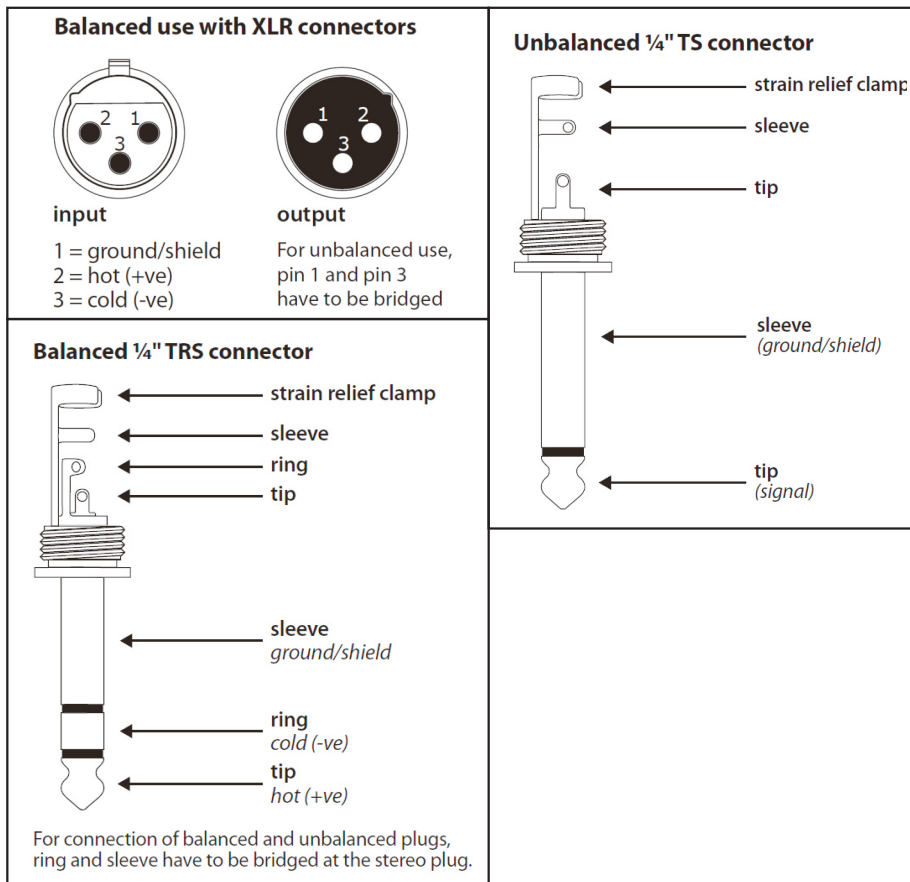
Dial the code switch 2 to the top position. According to your next connecting devices' impedance needing to decide whether to turn on or off code switch 1. (600Ω/10k)



1. Use a 2-pin shielded cable to connect MP73a and EQ73a, only in this situation can EQ73a work in a normal way;
2. Insert MP73a into CARD SLOT1, insert CP52a into CARD SLOT2 and insert EQ73a into CARD SLOT3;
3. Use a 3-pin cable to connect mic and CARD SLOT1 INPUT connector on S3's rear panel;
4. Use a 3-pin cable to connect power amp or active speaker and CARD SLOT2 INPUT connector on S3's rear panel;
5. Dial the switch1/3/4 to OFF position, dial the switch2 to ON position;
6. Turn on ON/OFF switch on EQ73a's panel;
7. Plug the S3's adaptor and dial S3's POWER to ON position.

NOTE: when mic need 48V phantom to offer power you should turn on 48V phantom on S3 and MP73a at the same time.

AUDIO CONNECTION

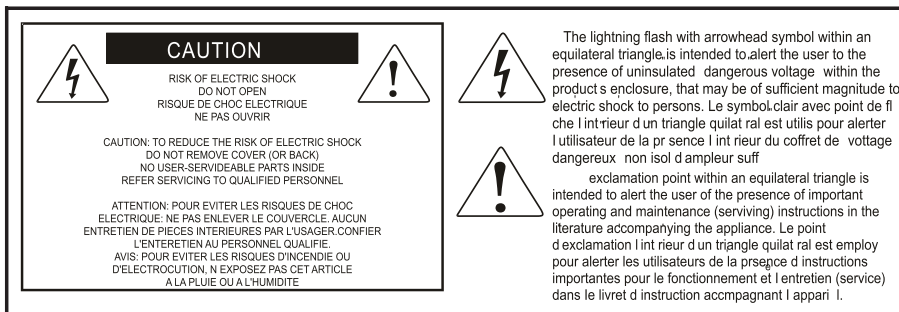


SERVICE

If your MP73a needs servicing, follow these instructions.

1. Ensure the problem is not related to operation error or external system devices.
2. Keep this owner's manual. We don't need it to repair the unit.
3. Pack the unit in its original packaging including end card and box. This is very important. If you have lost the packaging, please make sure you have packed the unit properly. ALCTRON is not responsible for any damage that occurs due to non-factory packing.
4. Ship to the ALCTRON tech support center or the local return authorization.

安全须知



1. 使用本机前请仔细阅读本手册。
2. 请将本手册供将来参考。
3. 请严格遵循用户手册或产品上的警告提示操作
4. 按照本手册中的所有指令。
5. 请勿将本机遭受雨淋或受潮。避免有水或其他液体泼洒在本机上。
6. 本设备的机壳和其它部件清洗时，只能使用干或微湿的软布。
7. 不要阻塞任何通风孔或干扰本机的适当通风。按照制造商的说明进行安装。
8. 不要使用或存放在任何热源附近，如散热器，电热器，炉子，或其他产生热的器具。
9. 不要干扰极化或接地型插头的安全目的。极化插头有两个金属片，其中一个比其他的更广泛。接地型插头有两个插脚和第三个接地插脚。为了您的安全，这些被指定。如果提供的插头不适合您的插座，请咨询电工。
10. 保护电源线被踩踏或损坏的物品摆放或反对他们。应特别注意插头，插座，点线退出家电
11. 为了避免触电的危险，请勿触摸任何电线外露，而单位在操作。
12. 仅使用制造商指定的附件 / 配件。
13. 拨下本机和所有连接的电气设备在雷雨时或闲置了很长一段时间。
14. 如果该设备有任何的损坏或不能正常操作，因由有合格的维修人员进行。

警告：为了减少着火或触电的危险，不要让本机遭受雨淋或受潮

开箱与检查

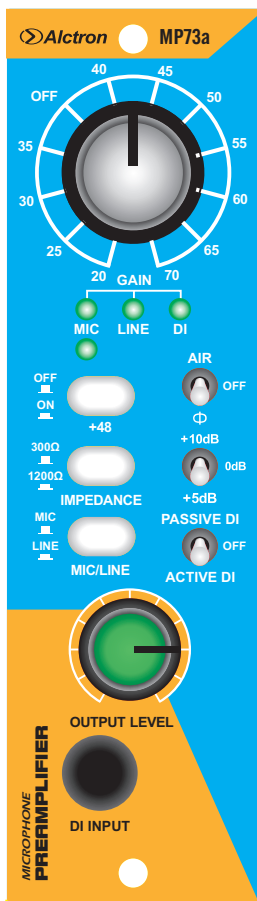
请小心的打开MP73a的外盒，将话筒放大器取出。请不要丢弃任何的包装材料！如果有任何物品缺失或损坏，请立即联系经销商或者直接联系ALCTRON。

物品清单：

1. MP73a话筒放大器
2. 说明书与质量保证书

MP73a是一台录音室级别的话筒放大器，有着非常坚固的外部结构。按照本手册说明操作压缩器，它能给您带来许多出众的声音表现。

产品介绍



MP73a 是一个500系列话放，是一个经典的单路麦克风、线性和乐器信号放大器，信号路径只使用分立的元件，如电阻，电容和晶体管。麦克风和线性输入以及线性输出变压器平衡，使用不同的变压器，每个都达到优化的目的。能很好的用于吉他，贝司，键盘乐器和其他乐器。

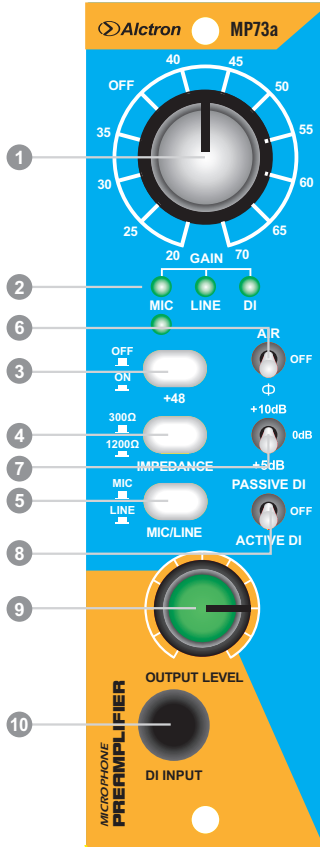
MP73a 内部用的线路类似于经典的1073的放大器部分，即音质特点温和有力、甜美悦耳。

这些经典的特征多年来已经在很多唱片中听到，它是一种多用途的声音特点，适合大多数的声源和流派。现在用超低成本就能得到这种声音，几乎每一个人都可以得到。

参数：

- * 复古风格的电路，信号路径中没有集成电路
- * 变压器平衡，完全浮动输出
- * 足够的麦克风增益能带动低声源的无源的铝带话筒
- * 总增益范围从-15到+80dB
- * 可调的麦克风输入阻抗 1200 或者300ohms
- * 可调的幻象电源，有LED指示灯
- * 灵活的前面板有乐器输入，可以用于额外声源
- * 可以进行精细的增益调节和过载的主要增益级
- * 相位开关
- * 可选的空气均衡器，可以增加10千赫以上的小推进
- * 背面有可选的600欧姆的输出端
- * 兼容500系列机架式
- * 48V 幻象电源

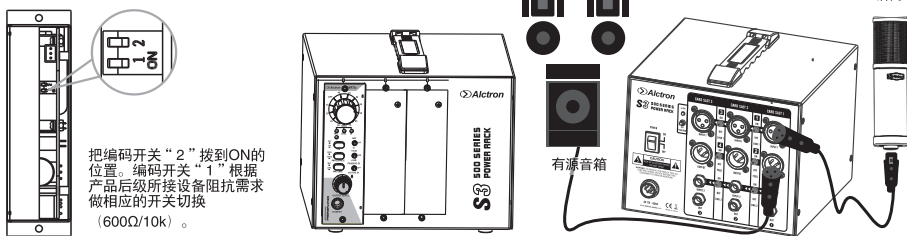
前面板功能说明



- 1, 输入增益电平调节-用于调节输入电平信号。
- 2, 输入信号指示-指示来自输入接口的信号指示, 包括MIC,LINE和DI。
- 3, 48V幻相电源-提供+48V幻相电源给输入XLR接口, 适用于大多数电容式麦克风
- 4, 话筒输入阻抗选择开关。有300Ω和1200Ω两档可供选择, 可根据自己所用话筒的输出阻抗灵活选择。一般情况下, 300Ω这个档位适用于超低输出阻抗话筒, 如常见的绝大部分电容话筒、部分动圈话筒、铝带话筒等。若不清楚自己所用话筒的输出阻抗, 可把开关拨到1200Ω档。
- 5, 话筒/线路输入音源选择选择开关。
- 6, 极性转换开关-拨动开关到另一侧, 可将输出信号的相位反转180度,拨到AIR将增10kHz的空气感。
- 7, 5dB和10dB输入信号增益提升。
- 8, DI输入模式选择-选择来自前面板DI的输入模式 (Active和Passive)。
- 9, 总输出电平量控制旋钮。
- 10, DI输入接口-1/4" 乐器信号输入接口。

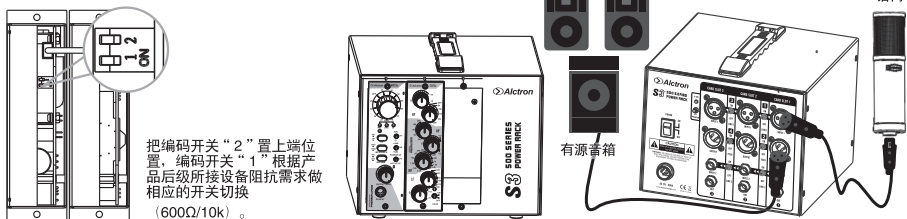
MP73a的连接示意图

MP73a单独使用:



1. 将MP73a插入S3的第一格;
2. 将S3第一格后面板上的INPUT接口用三芯卡农线连接麦克风;
3. 将S3第一格后面板上的OUTPUT接口用三芯卡农线连接有源音箱/功放;
4. 连接S3的适配器, 并且打开S3后面板上的主开关 (POWER)。

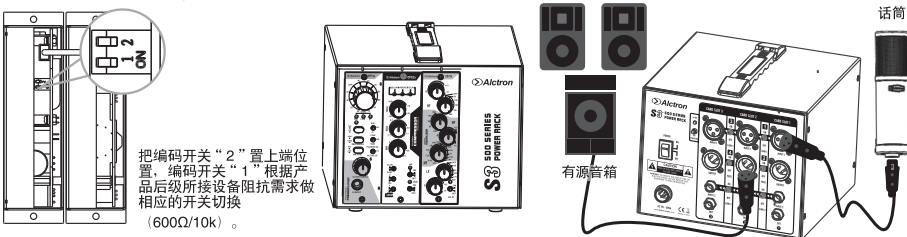
MP73a与EQ73a一起使用



1. 用2芯屏蔽线连接MP73a与EQ73a, 这样EQ73a才可以正常工作;
2. 将MP73a插入S3的第一格, EQ73a插入S3的第二格;
3. 将S3第一格后面板上的INPUT接口用三芯卡农线连接麦克风;
4. 将S3第一格后面板上的OUTPUT接口用三芯卡农线连接有源音箱/功放;
5. 打开EQ73a面板上的ON/OFF开关;
6. 将S3后面板上的开关1拨到OFF的位置;
7. 连接S3的适配器, 并且打开S3后面板上的主开关 (POWER)。

注意: 当麦克风需要48V幻相电源供电时, 必须同时打开S3和MP73a面板上的48V开关。

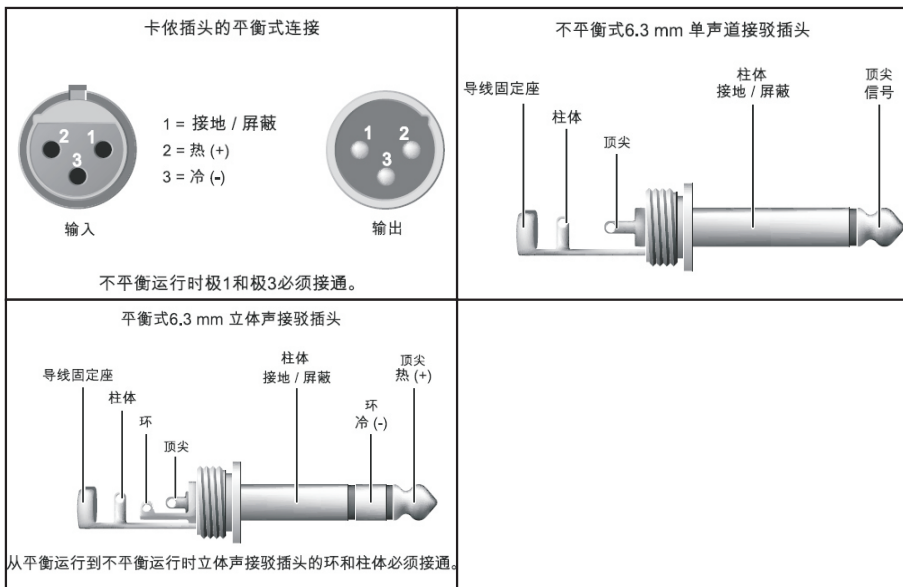
MP73a, CP52a与EQ73a一起使用:



1. 用2芯屏蔽线连接MP73a与EQ73a, 这样EQ73a才可以正常工作;
2. 将MP73a插入S3的第一格, CP52a插入S3的第二格, EQ73a插入S3的第三格;
3. 将S3第一格后面板上的INPUT接口用三芯卡农线连接麦克风;
4. 将S3第二格后面板上的OUTPUT接口用三芯卡农线连接有源音箱/功放;
5. 将开关1, 3, 4拨到OFF的位置, 将开关2拨到ON的位置;
6. 打开EQ73a面板上的ON/OFF开关;
7. 连接S3的适配器, 并且打开S3后面板上的主开关 (POWER)。

注意: 当麦克风需要48V幻相电源供电时, 必须同时打开S3, MP73a面板上的48V开关。

六、音频连接



七、保修

如果您的MP73a音频接口需要维修，请按照以下说明操作。

1. 请确保不是因为操作不当或外部设备所造成。
2. 请保存好我们的说明书，返修的时候不必把说明书寄回给我们。
3. 返修的时候请用产品原来的包装箱来包装，这是非常重要的。如果你已丢失原包装，请确保您正确包装和保护好本机。ALCTRON将不负责由于非原厂包装造成任何损害。
4. 运送到ALCTRON技术支持中心或当地的授权经销商。