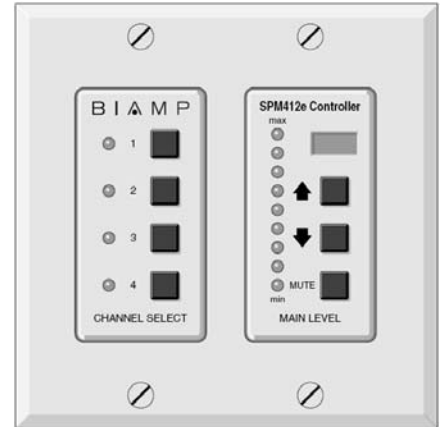


SPM412e
Controller
Instructions

SPM412e Controller Instructions

Controller: The Controller is a 'hard-wired' control, which is powered by the SPM412e. There are no batteries to wear out, and it is not easily lost or stolen. The Controller may be wired up to 2000 feet from the SPM412e, using 2-conductor shielded cable (not included). The Controller overrides all similar commands which might be initiated from the front panel of the SPM412e (see NOTE below). To install Controller, first remove mounting box from circuit board & front panel. Route cable through 'knock-out' hole on rear of mounting box. Install mounting box in wall or panel. Three screw terminals on circuit board ('GND', 'IR2', & 'IR3') correspond to 'Remote' terminals on rear panel of SPM412e. Connect cable shield to 'GND' terminals at each end. Use conductors to connect 'IR2' to 'IR2' and 'IR3' to 'IR3'. Install circuit board & front panel on mounting box. The Controller has seven buttons which control functions on the SPM412e. The Channel Select buttons & indicators provide the same functions as Channel Select on the SPM412e front panel (including the ability to select more than one stereo line input at a time). The Main Level buttons and display provide the same functions as Main Level on the SPM412e front panel, except that only a single indicator will light to display the level setting, and it will dim when the output is muted.

NOTE: Two additional screw terminals ('GND' & 'KEY SWI') allow an external key-switch (or contact-closure) to 'lock-out' control of Channel Select and/or Main Level functions. These functions will then be temporarily available from the SPM412e front panel, as long as the 'lock-out' is maintained. When 'lock-out' is released, the Controller memory will then reassert its previous settings on the SPM412e. A 4-gang DIP switch on the Controller circuit board allows custom functions to be assigned, such as Channel Select 'lock-out', Main Level 'lock-out', key-lock normally-open/closed, and infrared detector defeat (see Installation on page 2).



SPM412e Controller Installation

The Controller is a 'hard-wired' control, which is powered by the SPM412e. There are no batteries to wear out, and it is not easily lost or stolen. The Controller may be wired up to 2000feet away from the SPM412e, using 2-conductor shielded cable (not included).

Remove the mounting box from the front panel. Route the cable through a 'knock-out' hole on the rear of the mounting box. Install the mounting box in a wall or panel, in the same orientation as any standard double-wide electrical box (do not rotate 90° as with other Advantage Wall-Mount panels).

The mounting surface may be from 1/8" to 1" thick.
(3.175mm to 25.4mm)

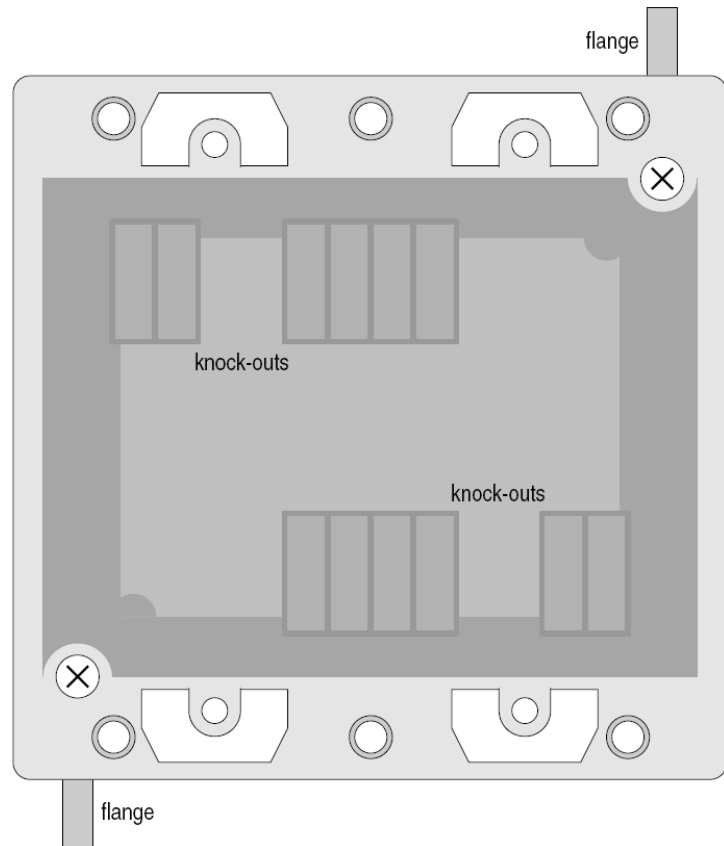
The mounting cavity must be exactly 3.6 inches high, 4 inches wide, and at least 2.65 inches deep.
(91.44mm x 101.6mm x 67.31mm)

Insert the mounting box into the wall or panel, then tighten the flange screws until the flanges hold the box securely in place. Three screw terminals on the circuit board ('GND', 'IR2', and 'IR3') directly correspond to 'Remote' terminals on the rear panel of the SPM412e. Connect the cable shield to the 'GND' terminal at each end. Use the two conductors to connect 'IR2' to 'IR2' and 'IR3' to 'IR3'.

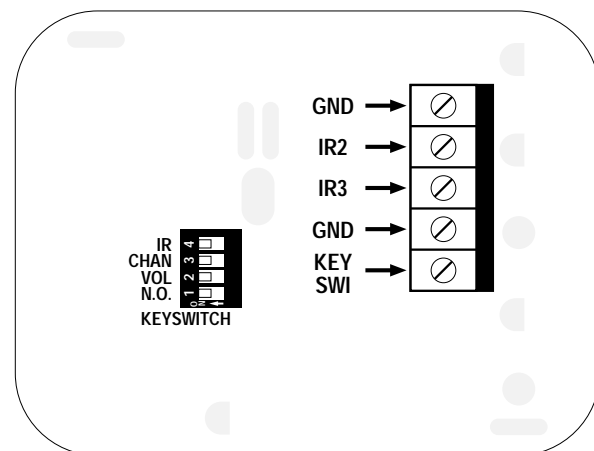
A key-switch may be wired across the 'KEY SWI' and adjacent 'GND' terminals, allowing 'user lock-out' of certain Controller functions. DIP switches are provided to defeat the front panel infrared detector, and to customize the key switch functions. The 'IR' DIP switch completely disables infrared control. The 'CHAN' DIP switch disables both push-button and infrared control of Channel Select. The 'VOL' DIP switch disables both push-button and infrared control of Main Level. (**NOTE:** DIP switches must be pushed to the right to achieve the functions described above.) If Channel Select and/or Main Level control is disabled via the DIP switches, it may be re-enabled via the key-switch. The 'N.O.' DIP switch selects either a 'normally open' or 'normally closed' key-switch operation. When this DIP switch is pushed left, a 'normally-open' key-switch must be turned ON (shorting 'KEY SWI' & 'GND' terminals) to re-enable Channel Select and/or Main Level control. When this DIP switch is pushed right, a 'normally-closed' key-switch must be turned OFF ('KEY SWI' terminal not grounded) to re-enable Channel Select and/or Main Level control. Factory setting is with all DIP switches left.

Install the front panel in the mounting box, using the four screws provided. Appropriate indicators on the face plate will light when power is delivered to the Controller.

Mounting Box



SPM412e controller board





EC Declaration of Conformity

Biamp Systems Corporation, as manufacturer having sole responsibility, hereby declares that the following described product complies with the applicable provisions of the DIRECTIVES below except as noted herein. Any alterations to the product not agreed upon and directed by Biamp Systems Corporation will invalidate this declaration.

Product Model: SPM412e and SPM412e Controller

Product Description: Stereo Program Mixer

Applicable EC Directives: Applicable Harmonized Standards:

LVD Directive (2006/95/EC) Safety EN 60065:2002

EMC Directive (2004/108/EC) Emissions EN 55103-1:1996, Environment E2
Immunity EN 55103-2:1996

Special Considerations for Product Environment or Compliance:

Use only Biamp Systems supplied 24 VDC External Power Supply Adaptor.

Shielded cabling must be used for system connections.

Technical Construction File, Location and Contact:

Biamp Systems, Inc. phone: (503) 641.7287
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Beaverton, OR USA 97008 e-mail: biamp@biamp.com

Authorized Representative: Larry Copley, Compliance Engineer

Authorized Signature:

Issued: March, 2010

(This information is presented to comply with the requirements of Chinese law SJ/T11363-2006)

有害物质表
Biamp 系统
SPM412e Controller
 远程控制

部件名称	有毒有害物质或元素					
	Pb (铅)	Hg (汞)	Cd (镉)	Cr+6 (六价铬)	PBB	PBDE
SPM412e Controller	X	○	X	○	○	○
墙壁安装盒	○	○	○	○	○	○
安装螺丝	○	○	○	○	○	○
面板	○	○	○	○	○	○
手册和其他书面文档	○	○	○	○	○	○
包装箱和所有包装材料	○	○	○	○	○	○

O: 表示该部件所有均质材料中的这种有毒有害物质低于 SJ/T11363-2006 的限制要求

X: 表示该部件中至少有一种均质材料所含的这种有毒有害物质高于 SJ/T11363-2006 的限制要求。

在电触头和（或）镀锡所含的均质材料中，锡及其化合物的含量可以超过 0.01%，但欧盟指令 91/338/EEC（根据欧盟指令 76/769/EEC）限制销售和使用某些危险物质和制剂部分中所禁止的用途除外。

在以下一种或多种物质所含的均质材料中，铅及其化合物的含量可以超过 0.1%:

- 1) 电子元器件中玻璃内所含的铅
- 2) 铅在钢材中是作为一种合金元素，含量可达 0.35%。
- 3) 铅在铝材中是作为一种合金元素，含量可达 0.4%。
- 4) 铅在铜材中是作为一种合金元素，含量可达 4%。
- 5) 高熔点类焊料中的铅（即铅锡合金，铅含量超过 85%）。
- 6) 电子陶瓷部件内的铅。
- 7) 由两种以上元素组成的焊料中所含的铅，用于连接引脚和微处理器包装，其中铅的含量超过 80% 但低于 85%。
- 8) 顺应针连接系统内的铅。
- 9) 倒装芯片封装中半导体芯片及载体之间形成可靠连接所用焊料中的铅。



在正常使用情况下，中国环保使用期限为 10 年，条件是：

- 环境温度 为 0-40C (32-104°F)
- 湿度为 0-95%，无凝结
- 海拔高度为 0-10,000 英尺
- 气流不受阻碍
- 没有水或其他液体进入任何部件
- 电源为 95-265V AC, 50/60Hz
- 部件没有损坏（损坏部件应立即修理）
- 由工厂授权人员使用批准的材料进行所有维修



EU RoHS COMPLIANT

This Biamp product -- including all attendant cables and accessories supplied by Biamp -- meets all requirements of EU Directives 2002/95/EC of January 27, 2003, and 2005/618/EC of August 18, 2005, the EU RoHS Directives. An EU RoHS Materials Content Declaration document may be obtained at <http://www.biamp.com>