

SPM412e
Stereo Preamp/Mixer
IR Control Manual

A third-party controller, such as AMX or Crestron, can be used to control the SPM412e. To do this use the translator connection on the rear panel connected to an infrared output of the controller. The controller must have the correct driver loaded, which should be configured to output a carrier stripped IR signal, and are available from the AMX and Crestron web-sites.

SPM 412e Control

Two versions of SPM412e have been made with a slight difference in remote connector configuration, as follows:

4 pin connector, no switch (older version)

The connection from the touch panel controller and the SPM412e should be made to the ground and xlate (translate) pins of the 4 way remote connector.

3 pin connector with switch (newer version)

The connection from the touch panel controller and the SPM412e should be made to the ground and idle high pins of the 3 way remote connector, with the switch pressed in to allow a translate input.

In either case the data sent to the SPM412e is always the same.

The functions that can be controlled and the related Biamp button numbers are shown below:

Basic Commands*

This command set will allow the control system to perform the **basic front panel controls** of the SPM412e.

Biamp Button number	AMX* Button number	Function
4	46	Volume down
8	50	Volume up
12	54	Mute toggle
25	67	Selects stereo input 1
26	68	Selects stereo input 2
27	69	Selects stereo input 3
28	70	Selects stereo input 4

* Using the file biamp000.irl from the Panja (AMX) control disc

Advanced Commands *

This command set will allow the control system to perform the basic front panel functions, as well as more advanced controls like setting the master volume to a percentage or enabling a combination of inputs to be selected at the same time. These Advanced Commands will only work with a SPM412e, and are not supported by the older SPM412 mixer.

Biamp Button number	AMX* Button number	Function
Using BIAMP001.irl		
4	4	Volume down
8	8	Volume up
12	12	Mute toggle
25	25	Selects stereo input 1
26	26	Selects stereo input 2
27	27	Selects stereo input 3
28	28	Selects stereo input 4
29	29	Selects no stereo input
30	30	mutes the main Output
31	31	un-mutes the main Output
32	32	sets main level to 4%
33	33	sets main level to 16%
34	34	sets main level to 28%
35	35	sets main level to 40%
36	36	sets main level to 52%
37	37	sets main level to 64%
38	38	sets main level to 76%
39	39	sets main level to 88%
40	40	sets main level to 100%
Using BIAMP002.irl		
241	113	Select No Stereo Input
242	114	Select Ch.1
243	115	Select Ch.2
244	116	Select Ch.1 & 2
245	117	Select Ch.3
246	118	Select Ch.1 & 3
247	119	Select Ch.2 & 3
248	120	Select Ch. 1 & 2 & 3
249	121	Select Ch.4
250	122	Select Ch. 1 & 4
251	123	Select Ch. 2 & 4
252	124	Select Ch. 1 & 2 & 4
253	125	Select Ch. 3 & 4
254	126	Select Ch. 1 & 3 & 4
255	127	Select Ch. 2 & 3 & 4
256	128	Select Ch. 1 & 2 & 3 & 4

* BIAMP button numbers 4-40 are used on the Panja (AMX) IRLib file **BIAMP001.irl**.
Biamp button numbers 214-256 are used on the Panja (AMX) IRLib file **BIAMP002.irl**.