

ADVANTAGE[®] MSP(11 & 22e)
Multi-Signal
Processor
RS-232 Control Manual

B I A M P[™]

Introduction

The purpose of this manual is to assist third-party programmers in successfully writing code to control basic day-to-day operations of the Advantage MSP products. If you do not find a command that you are looking for, please contact Biamp Systems at 1-800-826-1457 and ask for Technical Support.

Using this manual

To use this manual, simply select the type of command you are looking for, located in the tables that make up the following pages, then look at the corresponding command string. In each case you will need to insert the proper characters in the string to complete the Command String. Example: in the string '**aa**002?0080**dd**!' [which is an increase fader string] you will need to provide pseudo-hex character for the **aa** and **dd** parameters. The following table explains the characters you will need to define:

Characters	Definition
aa	Channel Number
bb	Preset Number
cc	Button Number
ee	Input Gain
ff	Output Gain
dd	Device Number

Command	Command String	Response	Comments
Volume Up	aa002?0080dd!	None	Define aa and dd parameters
Volume Down	aa002>0080dd!	None	Define aa and dd parameters
Mute	aa002;0080dd!	None	Define aa and dd parameters
Unmute	aa002<0080dd!	None	Define aa and dd parameters
Recall Preset	bb01007>0080dd!	None	Define bb and dd parameters
Button Action	0000cc0100780080dd!	None	Define cc and dd parameters
Set Input gain (specific value)	eeaa00300080dd!	None	Define ee, aa and dd parameters
Set output gain (specific value)	ffaa00310080dd!	None	Define ff, aa and dd parameters
Ch 1 & 2 Vol Up	330100760080dd!	None	Define dd parameter
Ch 1 & 2 Vol dn	110100760080dd!	None	Define dd parameter
Get input & output levels	aa 0032 00 80 dd !	eeff<CR>	Define aa and dd parameter. First 2 bytes of response are input fader level; second 2 bytes are output fader level. For get commands 80 on ff means muted (only works on a get command).

aa = Address for Main and Aux Faders

Channel	Value
Channel 1	01
Channel 2	02

Table of channel parameters for aa

bb = Preset Number

Preset	Value
Preset #1	01
Preset #2	02
Preset #3	03
Preset #4	04
Preset #5	05
Preset #6	06
Preset #7	07
Preset #8	08

Preset	Value
Preset #9	09
Preset #10	0:
Preset #11	0;
Preset #12	0<
Preset #13	0=
Preset #14	0>
Preset #15	0?
Preset #16	10

Table of presets for bb parameter

cc = Button Number

Button #	Value
Button#1	01
Button #2	02
Button #3	03
Button #4	04
Button #5	05
Button #6	06
Button #7	07
Button #8	08
Button #9	09
Button #10	0:
Button #11	0;
Button #12	0<
Button #13	0=
Button #14	0>
Button #15	0?
Button #16	10
Button #17	11
Button #18	12
Button #19	13
Button #20	14

Button #	Value
Button # 21	15
Button #22	16
Button #23	17
Button #24	18
Button #25	19
Button #26	1:
Button #27	1;
Button #28	1<
Button #29	1=
Button #30	1>
Button #31	1?
Button #32	20
Button #33	21
Button #34	22
Button #35	23
Button #36	24
Button #37	25
Button #38	26
Button #39	27
Button #40	28

*Table of Button Numbers for cc parameter***ee = Input Fader level**

Fader level	Value
20dB	00
19dB	01
18dB	02
17dB	03
16dB	04
15dB	05
14dB	06
13dB	07
12dB	08
11dB	09
10dB	0:

Fader Level	Value
9dB	0;
8dB	0>
7dB	0=
6dB	0<
5dB	0?
4dB	10
3dB	11
2dB	12
1dB	13
0dB	14

ff = Output fader Level

Fader level	Value
-60dB	00
-48dB	01
-42B	02
-36B	03
-30dB	04
-28dB	05
-26dB	06
-24dB	07
-23dB	08
-22dB	09
-21dB	0:
-20dB	0;
-19dB	0<
-18dB	0=
-17dB	0>
-16dB	0?

Fader Level	Value
-15dB	10
-14dB	11
-13dB	12
-12dB	13
-11dB	14
-10dB	15
-9dB	16
-8dB	17
-7dB	18
-6dB	19
-5dB	1:
-4dB	1;
-3dB	1<
-2dB	1=
-1dB	1>
0dB	1?

Table of Output Fader Levels for ff parameter

dd = Device Number

Device	Value
Device #0	00
Device #1	01
Device #2	02
Device #3	03
Device #4	04
Device #5	05
Device #6	06
Device #7	07
Device #8	08
Device #9	09
Device #10	0:
Device #11	0;
Device #12	0<
Device #13	0=
Device #14	0>
Device #15	0?

Device	Value
Device #16	10
Device #17	11
Device #18	12
Device #19	13
Device #20	14
Device #21	15
Device #22	16
Device #23	17
Device #24	18
Device #25	19
Device #26	1:
Device #27	1;
Device #28	1<
Device #29	1=
Device #30	1>
Device #31	1?

Device	Value
Device #32	20
Device #33	21
Device #34	22
Device #35	23
Device #36	24
Device #37	25
Device #38	26
Device #39	27
Device #40	28
Device #41	29
Device #42	2:
Device #43	2;
Device #44	2<
Device #45	2=
Device #46	2>
Device #47	2?

Device	Value
Device #48	30
Device #49	31
Device #50	32
Device #51	33
Device #52	34
Device #53	35
Device #54	36
Device #55	37
Device #56	38
Device #57	39
Device #58	3:
Device #59	3;
Device #60	3<
Device #61	3=
Device #62	3>
Device #63	3?

Table of device numbers for dd parameter