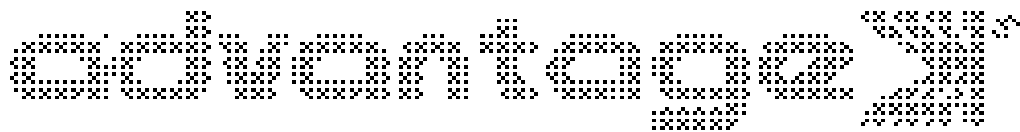


ADVANTAGE[®] VRAM
Variable Resource
Automixer

RS-232 Control Manual (Basic Commands)



Introduction

The purpose of this manual is to assist third-party programmers in successfully writing code to control day-to-day operations of the Advantage VRAM and VRAMEq. 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 '1?01**aa**80**dd**' [which is an increase fader string] you will need to provide psuedohex character for the **aa** and **dd** parameters. The following table explains the characters you will need to define:

Characters	Definition
aa	Address for Main and Aux Faders
pp	Preset Number
ee	Button Number
ss	Volume Level
dd	Device Number

Command	Command String	Response	Comments
Volume Up	1?01aa80dd)	None	Define aa and dd parameters
Volume Down	0000aa80dd)	None	Define aa and dd parameters
Mute	008000aa80dd(None	Define aa and dd parameters
Unmute	800000aa80dd(None	Define aa and dd parameters
Recall Preset	pp80dd"	None	Define pp and dd parameters
Button Action	ee80dd&	None	Define ee and dd parameters
Set Volume to specific value	1?ss00aa80dd(None	Define ss, aa and dd parameters

aa = Address for Main and Aux Faders

Fader	Value
Channel 1 Main Feed	28
Channel 1 Aux Feed	29
Channel 2 Main Feed	2:
Channel 2 Aux Feed	2;
Channel 3 Main Feed	2<
Channel 3 Aux feed	2=
Channel 4 Main Feed	2>
Channel 4 Aux feed	2?
Channel 5 Main Feed	30
Channel 5 Aux Feed	31
Channel 6 Main Feed	32

Fader	Value
Channel 6 Aux feed	33
Channel 7 Main Feed	34
Channel 7 Aux Feed	35
Channel 8 Main Feed	36
Channel 8 Aux feed	37
Aux 1 Level Main Feed	38
Aux 1 Level Aux Feed	39
Aux 2 level Main Feed	3:
Aux 2 Level Aux feed	3;
Main Out Level (Master)	3<
Aux Out Level (Master)	3=

Table of Main and Aux Faders for aa parameter

pp = 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 pp parameter

ee = 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 ee parameter***ss = Volume Level**

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

Fader Level	Value
-10dB	0?
-11dB	0>
-12dB	0=
-13dB	0<
-14dB	0;
-15dB	0:
-16dB	09
-17dB	08
-18dB	07
-20dB	06
-22dB	05
-24dB	04
-30dB	03
-36dB	02
-42dB	01
-60dB	00

Table of Fader Levels for ss 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