



Get Reale. Get Beale.

BAV2500/BAV4250 API

NOTE: The IP address used in the example in this document is 192.168.14.1. Make sure you use the correct IP address in your application. A raw connection to the IP address and port 80. Below is an example using PuTTY.

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address)	Port
192.168.14.1	80

Connection type:

☒ Raw ☐ Telnet ☐ Rlogin ☐ SSH ☐ Serial

Example of a successful command being sent:

```
POST /post.cgi HTTP/1.1
Host: 192.168.14.1/post.cgi
Content-Length: 21
Authorization: Basic YWRtaW46YWRtaW4=
Content-Type: application/x-www-form-urlencoded

channel-0-mixerMute=1&

HTTP/1.1 200 OK
Connection: close
Content-Type: text/html
Cache-Control: no-cache

{"context":{"version":"FMSv0.9","channels":[{"mixerVol":-24.1000,"mixerMute":1,"
hpfEnable":0,"hpfValue":70.0000,"treble":0.1000,"bass":0.3000,"mtxOut":[1,0,0,0]
,"bands":[{"freq":125.0000,"gain":5.1000,"q":0.7000,"filter":5,"enable":0}, {"fre
q":6795.0000,"gain":4.0000,"q":0.7000,"filter":4,"enable":0}, {"freq":250.0000,"g
ain":0.0000,"q":0.7000,"filter":0,"enable":0}], {"mixerVol":-52.9000,"mixerMute"
:0,"hpfEnable":0,"hpfValue":70.0000,"treble":0.0000,"bass":0.0000,"mtxOut":[0,1,
0,0],"bands":[{"freq":63.0000,"gain":0.0000,"q":0.7000,"filter":0,"enable":0}, {"
freq":125.0000,"gain":0.0000,"q":0.7000,"filter":0,"enable":0}, {"freq":250.0000,
"gain":0.0000,"q":0.7000,"filter":0,"enable":0}], {"mixerVol":-50.7000,"mixerMut
e":1,"hpfEnable":0,"hpfValue":70.0000,"treble":0.0000,"bass":0.0000,"mtxOut":[0,
0,1,0],"bands":[{"freq":63.0000,"gain":0.0000,"q":0.7000,"filter":0,"enable":0}, {"
freq":125.0000,"gain":0.0000,"q":0.7000,"filter":0,"enable":0}, {"freq":250.000
0,"gain":0.0000,"q":0.7000,"filter":0,"enable":0}], {"mixerVol":-50.7000,"mixerM
ute":0,"hpfEnable":0,"hpfValue":70.0000,"treble":0.0000,"bass":0.0000,"mtxOut":[
0,0,0,1],"bands":[{"freq":63.0000,"gain":0.0000,"q":0.7000,"filter":0,"enable":0
}, {"freq":125.0000,"gain":0.0000,"q":0.7000,"filter":0,"enable":0}, {"freq":250.0
000,"gain":0.0000,"q":0.7000,"filter":0,"enable":0}]}, {"levelMeterIn":[-78,-77,
-90,-70],"levelMeterOut":[-102,-114,-114,-114],"outputConf":[1,1,1,1],"powerSavi
ng":0,"limiter":[0,0,0,0],"temperature":50.0000,"fan":20.0000,"protect":0,"selec
tedPresetIndex":0,"uptime":8025,"presetName":["Default","Default","Default","D
efault","Default","Default","Default","Default","Default","Default","Default","D
efault","Default","Default","Default","Default","Default","Default","Default","D
efault"]}]}
}
```



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Data Format

```
POST /post.cgi HTTP/1.1
http://192.168.14.1/post.cgi
Content-Length: 21
Authorization: Basic YWRtaW46YWRtaW4= [$1]
Content-Type: application/x-www-form-urlencoded

channel-[$2]-[$3]=[$4]&
```

\$1 = hashed username/password. Currently set as "YWRtaW46YWRtaW4=". Will provide a combination in the future.

\$2 = parameter CH

\$3 = parameter Type

\$4 = parameter Data



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Input Matrix

Input value	Output value	Value
0-3	0-3	1 or 0

Send a **POST request** with **data format** and data
Example: Input Ch2 → Output Ch1

In				
1	2	3	4	
0-0	0-1	0-2	0-3	1
1-0	1-1	1-2	1-3	2
2-0	2-1	2-2	2-3	3
3-0	3-1	3-2	3-3	4
				Out

POST /post.cgi HTTP/1.1

http://192.168.14.1/post.cgi

Content-Length: 21

Authorization: Basic YWRtaW46YWRtaW4=

Content-Type: application/x-www-form-urlencoded

channel-0-mtxOut-1=1&



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Volume

CH value	Type	Value
0-3	mixerVol	0 - -99
0-3	mixerMute	1 or 0

Send a **POST** request with **data format** and data

Example: Ch2 Volume up



POST /post.cgi HTTP/1.1

http://192.168.14.1/post.cgi

Content-Length: 21

Authorization: Basic YWRtaW46YWRtaW4=

Content-Type: application/x-www-form-urlencoded

channel-1-mixerVol=-10&

Example: Mute Ch2



POST /post.cgi HTTP/1.1

http://192.168.14.1/post.cgi

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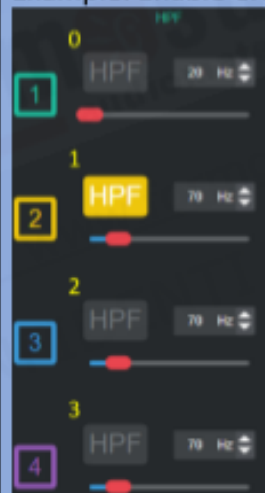
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Content-Length: 21
Authorization: Basic YWRtaW46YWRtaW4=
Content-Type: application/x-www-form-urlencoded
channel=1-mixerMute=1&

Home.DSP

CH value	Type	Value
0-3	hpfEnable	1 or 0
0-3	hpfValue	20 - 20000
0-3	treble	-12 - 12
0-3	bass	-12 - 12

Send a **POST request** with **data format** and data
Example: Enable CH2 hpf



POST /post.cgi HTTP/1.1
http://192.168.14.1/post.cgi
Content-Length: 21
Authorization: Basic YWRtaW46YWRtaW4=
Content-Type: application/x-www-form-urlencoded
channel=1-hpfEnable=1&

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Home.PEQ

CH value	Band value	Type	Value
0-3	0-2	enable	1 or 0
0-3	0-2	freq	20 - 20000
0-3	0-2	gain	-12 - 12
0-3	0-2	q	0.4 - 14
0-3	0-2	filter	0 - 5

filter	Description
0	Peak
1	Treble
2	Bass
3	notch
4	LPF
5	HPF

Send a **POST request** with **data format** and data

Example: Enable ch1 band2

POST /post.cgi HTTP/1.1

http://192.168.14.1/post.cgi

Content-Length: 25

Authorization: Basic YWRtaW46YWRtaW4=

Content-Type: application/x-www-form-urlencoded

channel-0-band-1-enable=1&

Example: set ch1 band2 filter (Treble)

POST /post.cgi HTTP/1.1

http://192.168.14.1/post.cgi

Content-Length: 25

Authorization: Basic YWRtaW46YWRtaW4=

Content-Type: application/x-www-form-urlencoded

channel-0-band-1-filter=1&

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Home.Preset

Save preset

Type	Select	Rename
savePreset	1 - 20	0 - 9 , A - Z , a - z

Send a **POST request** with **data format** and data
Example: select NO.3 save and rename 33
POST /post.cgi HTTP/1.1
http://192.168.14.1/post.cgi
Content-Length: 15
Authorization: Basic YWRtaW46YWRtaW4=
Content-Type: application/x-www-form-urlencoded

savePreset=3=33&

4.2 Load preset

Type	Select
loadPreset	1 - 20

Send a **POST request** with **data format** and data
Example: load No.3
POST /post.cgi HTTP/1.1
http://192.168.14.1/post.cgi
Content-Length: 12
Authorization: Basic YWRtaW46YWRtaW4=
Content-Type: application/x-www-form-urlencoded

loadPreset=3&

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reset preset

Type	Value
resetPreset	1

Send a **POST request** with **data format** and data

Example: Reset Preset

POST /post.cgi HTTP/1.1

http://192.168.14.1/post.cgi

Content-Length: 13

Authorization: Basic YWRtaW46YWRtaW4=

Content-Type: application/x-www-form-urlencoded

resetPreset=1&

Output Configurations

CH	Type	Value
0-3	outConf	0 - 2

Value	Description
0	4-8ohm
1	70V
2	100V

Send a **POST request** with **data format** and data

Example: set ch1 4-8ohm

POST /post.cgi HTTP/1.1

http://192.168.14.1/post.cgi

Content-Length: 19

Authorization: Basic YWRtaW46YWRtaW4=

Content-Type: application/x-www-form-urlencoded

channel-0-outConf=0&

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Power Saving

Type	Value
powerSaving	0 or 1

Value	Description
0	ON
1	Auto

Send a **POST request** with **data format** and data
Example: set power mode Auto
POST /post.cgi HTTP/1.1
http://192.168.14.1/post.cgi
Content-Length: 13
Authorization: Basic YWRtaW46YWRtaW4=
Content-Type: application/x-www-form-urlencoded
powerSaving=1&