



# AMP 4200

INTERNET PROTOCOL API

## Document History

Revision	Date	Author	Comment
1.0	2019/5/14	Dennis	First draft

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## Note

1. The IP address used in the example in this document is 192.168.14.1. Make sure to use the correct IP address.
2. Establish a raw connection to the desired IP address and port 80. Below is a PuTTY example.

Basic options for your PuTTY session

Specify the destination you want to connect to

Host <u>N</u> ame (or IP address)	Port
192.168.14.1	80

Connection type:

Raw
  Telnet
  Rlogin
  SSH
  Serial

3. Example of successful command sent.

```

PieTTY (inactive)
連線(C) 編輯(E) 檢視(V) 視窗(W) 選項(O) 說明(H)
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-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}, {"freq":6795.0000,"gain":4.0000,"q":0.7000,"filter":4,"enable":0}, {"freq":250.0000,"gain":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,"mixerMute":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":250.0000,"gain":0.0000,"q":0.7000,"filter":0,"enable":0}], {"mixerVol":-50.7000,"mixerMute":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":250.0000,"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],"powerSaving":0,"limiter":[0,0,0,0],"temperature":50.0000,"fan":20.0000,"protect":0,"selectedPresetIndex":0,"uptime":8025,"presetName":["Default","Default","Default","Default","Default","Default","Default","Default","Default","Default","Default","Default","Default","Default","Default","Default","Default","Default","Default","Default","Default"]}]}
    
```

#### 4. 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 Date

## 1.0 Home.Matrix

### 1.1 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



```
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&

## 1.2 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**-mixer**Vol**=-**10**&

Example: Mute Ch2



```
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
```

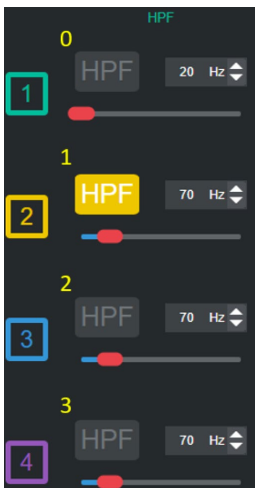
channel-**1**-mixer**Mute**=**1**&

## 2.0 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&

### 3.0 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

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&



## 4.0 Home.Preset

### 4.1 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&**

### 4.3 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&**

## 5.0 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&

## 6.0 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&



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