|  |  |
| --- | --- |
| Request | response |
| {  "type":"set\_mastervolume",  "value ":[  { "index ": id , //0-6 "masterVolume": "xxx", ”mute”: ”0 or 1” }  ]  } | {  “type”:”set\_mastervolume”,  “status”:xxx } |

**SnapAV5.1 API & OSD** [**communication**](javascript:;) [**protocol**](javascript:;)

(OSD 使用 127.0.0.1，端口8080)

1、Login

{"type" : "login", "username" : "episode", "password" : "123"}

2、Master Volume:

|  |  |  |  |
| --- | --- | --- | --- |
| Field Information | | | |
| Field Name | Format | Constraints | Condition |
| type | string |  | required |
| index | number | Input index begain 0 | required |
| masterVolume | string |  | Optional |
| mute | string |  | Optional |

2、Input Settings

|  |  |
| --- | --- |
| Request | response |
| {  "type":"set\_inputsetting",  "value ":[  { "index ": id ,  “inputEnable”:”xxx”, “inputName”:”xxx”, "soundMode": "xxx", ”maxVolume”: ”0 or 1”,  “inputGain”:”xx” }  ]  } | {  “type”:”set\_ inputsetting”,  “status”:xxx }  // inputEnable:” 0 or 1”  // soundMode:  0: "2ch Stereo",  1:"5ch Stereo",  2:"Dolby PLll Music ",  3:"Dolby PLll Movie",  4:"DTS NEO:6 Cinema",  5: "DTS NEO:6 Music" |
|  |  |

Table-1 (input name)

|  |  |
| --- | --- |
| index | Input Name |
| 0 | HDMI1 |
| 1 | HDMI2 |
| 2 | HDMI3 |
| 3 | Aux |
| 4 | Optical |
| 5 | Bluetooth |
| 6 | ARC |

Table-2

|  |  |
| --- | --- |
| soundMode |  |
| 0 | 2ch Stereo |
| 1 | 5ch Stereo |
| 2 | Dolby PLll Music |
| 3 | Dolby PLll Movie |
| 4 | DTS NEO:6 Cinema |
| 5 | DTS NEO:6 Music |

|  |  |  |  |
| --- | --- | --- | --- |
| Field Information | | | |
| Field Name | Format | Constraints | Condition |
| type | string |  | required |
| index | number | Input index begain 0 | required |
| inputEnable | string | 0 or 1 //0:off 1:on | Optional |
| inputName | string |  | Optional |
| soundMode | string | Refer Table-1 | Optional |
| maxVolume | string |  | Optional |
| inputGain | string |  | Optional |

4、Speaker setup

|  |  |
| --- | --- |
| Request | response |
| {  "type":"set\_outputsetting",  "value ":[  { "index ": id ,  “speakerSize”:”xxx”, “crossOver”:”xxx”, "slop": "xxx", ”speakerLevel”: ”0 or 1”,  “feet”:”xx”,  “meters”:”x”,  “testSignal”:”0 or 1” }  ]  } | {  “type”:”set\_outputsetting”,  “status”:xxx }  //speakerLevel: “-10~10”  Msec: [0,200]  can be in float format  FEET\_CAL 1.133  METRES\_CAL 0.34  feet = msec\*FEET\_CAL;  metres = msec \* METRES\_CAL  //feet: “xxx” |

Table-3

|  |  |
| --- | --- |
| index | Output Name |
| 0 | Front Left |
| 1 | Center |
| 2 | Front Right |
| 3 | Surround Left |
| 4 | Subwoofer |
| 5 | Surround Right |

Table-4

|  |  |
| --- | --- |
| speakerSize |  |
| 0 | Large |
| 1 | Small |
| 2 | OFF |
| 3 | ON |

Note:

Front Left 、Front Right only optional Large and Small (speakerSize: 0 or 1)

Subwoofer only optional OFF and ON (speakerSize: 2 or 3)

Center、Surround Left、Surround Right only optional Large、Small and OFF (speakerSize: 0 or 1 or 2)

Table-5

|  |  |
| --- | --- |
| crossOver |  |
| 0 | 0 |
| 1 | 40 |
| 2 | 50 |
| 3 | 60 |
| 4 | 70 |
| 5 | 80 |
| 6 | 90 |
| 7 | 100 |
| 8 | 110 |
| 9 | 120 |
| 10 | 130 |
| 11 | 140 |
| 12 | 150 |
| 13 | 160 |
| 14 | 170 |
| 15 | 180 |
| 16 | 190 |
| 17 | 200 |
|  |  |

Table-6

|  |  |
| --- | --- |
| slop |  |
| 0 | 6 |
| 1 | 12 |
| 2 | 24 |

|  |  |  |  |
| --- | --- | --- | --- |
| Field Information | | | |
| Field Name | Format | Constraints | Condition |
| type | string |  | required |
| index | number | Output index 0~5 | required |
| speakerSize | string |  | Optional |
| crossOver | string |  | Optional |
| slop | string |  | Optional |
| speakerLevel | string | -10~10 | Optional |
| feet | String | can be in float format | Optional |
| meters | sting | can be in float format | Optional |
| testSignal | string | 0 or 1 | Optional |

5. unknown json format

|  |  |
| --- | --- |
| Request | response |
| Unknow string | {  “type”:”unknown”,  “status”:401 } |

6. System setting

6.1 set\_ampname

|  |  |
| --- | --- |
| Request | response |
| {  "type":"set\_ampname",  "value ":”xxx”  } | {  “type”:”set\_ampname”,  “status”:200 } |

//TODO

7、CEC setting

|  |  |
| --- | --- |
| Request | response |
| {  "type":"set\_cecsetting",  "value ":  { "cecEnable": “0 or 1” ,  “powerOnEnable”:”xxx”, “powerOffEnable”:”xxx”, "sourceEnable": "xxx", ”volumeEnable”: ”0 or 1”, }  } | {  “type”:”set\_ cecsetting”,  “status”:200 } |

|  |  |  |  |
| --- | --- | --- | --- |
| Field Information | | | |
| Field Name | Format | Constraints | Condition |
| type | string |  | required |
| cecEnable | string |  | required |
| powerOnEnable | string |  | Optional |
| powerOffEnable | string |  | Optional |
| sourceEnable | string |  | Optional |
| volumeEnable | string |  | Optional |

8.general setting

|  |  |
| --- | --- |
| Request | response |
| {  "type":"set\_generalsetting",  "value ":  { " standbyEnable": “0 or 1” ,  “hdmiAudioEnable”:”xxx”, } } | {  “type”:”set\_ generalsetting”,  “status”:200 } |

|  |  |  |  |
| --- | --- | --- | --- |
| Field Information | | | |
| Field Name | Format | Constraints | Condition |
| type | string |  | required |
| standbyEnable | string |  | Optional |
| hdmiAudioEnable | string |  | Optional |

9. ip setting

|  |  |
| --- | --- |
| Request | response |
| {  "type":"set\_ip",  "value ":  { "dhcp": “0 or 1” ,  “ipaddress”:”xxx”,  “gateway”:”xxx”,  “subnetmask”:”xxx”,  “dnsserver”:”xxx”, }  } | {  “type”:”set\_ ip”,  “status”:200 } |

|  |  |  |  |
| --- | --- | --- | --- |
| Field Information | | | |
| Field Name | Format | Constraints | Condition |
| type | string |  | required |
| dhcp | string |  | required |
| ipaddress | string |  | required |
| gateway | string |  | required |
| subnetmask | string |  | required |
| dnsserver | string |  | required |

10.power setting

|  |  |
| --- | --- |
| Request | response |
| {  "type":" set\_powerstatus",  "value ": “0 or 1”, } | {  “type”:” set\_powerstatus”,  “status”:200 } |

|  |  |  |  |
| --- | --- | --- | --- |
| Field Information | | | |
| Field Name | Format | Constraints | Condition |
| type | string |  | required |
| value | string | 0:off 1:on | required |

11. testMode setting //For test mode

|  |  |
| --- | --- |
| Request | response |
| {  "type":" set\_dsptestmode",  "value ": “0 or 1”, } | {  “type”:” set\_dsptestmode”,  “status”:200 } |

|  |  |  |  |
| --- | --- | --- | --- |
| Field Information | | | |
| Field Name | Format | Constraints | Condition |
| type | string |  | required |
| value | string | 0:off 1:on | required |

**Get chapter**

1. Master Volume

|  |  |
| --- | --- |
| Request | response |
| {  "type":"get\_mastervolume",  "value ":[0,1]  } | {  "type":"get\_mastervolume", “status”:200  "value ":[  { "index ": id , //0-6 "masterVolume": "xxx", ”mute”: ”0 or 1” }  ]  } |

|  |  |  |  |
| --- | --- | --- | --- |
| Field Information | | | |
| Field Name | Format | Constraints | Condition |
| type | string |  | required |
| value | Arry | Number arry | Optional |

1. Input Seting

|  |  |
| --- | --- |
| Request | response |
| {  "type":"get\_ inputsetting ",  "value ":[0,1]  } | {  "type":"get\_inputsetting", “status”:200  "value ":[  { "index ": id ,  “inputEnable”:”xxx”, “inputName”:”xxx”, "soundMode": "xxx", ”maxVolume”: ”0 or 1”,  “inputGain”:”xx” }  ]  } |

|  |  |  |  |
| --- | --- | --- | --- |
| Field Information | | | |
| Field Name | Format | Constraints | Condition |
| type | string |  | required |
| value | arry | Number arry | Optional |

1. Output setting

|  |  |
| --- | --- |
| Request | response |
| {  "type":"get\_outputsetting ",  "value ":[0,1]  } | {  "type":"get\_outputsetting", “status”:200  "value ":[  { "index ": id ,  “speakerSize”:”xxx”, “crossOver”:”xxx”, "slop": "xxx", ”speakerLevel”: ”xxx”,  “feet”:”xx”,  “meters”:”xxx”,  “testSignal”:”xx” }  ]  } |

|  |  |  |  |
| --- | --- | --- | --- |
| Field Information | | | |
| Field Name | Format | Constraints | Condition |
| type | string |  | required |
| value | arry | Number arry | Optional |

1. System setting

|  |  |
| --- | --- |
| Request | response |
| {  "type":"get\_systemsetting ",  } | {  "type":"get\_systemsetting ", “status”:200  “value”:{  "ampName":”xxx”  “model”:”xxx”,  “macAddress”:”xxx”,  “firmwareVersion”:”xxx”,  “serviceTag”:”xxx”  }  } |

1. Cec setting

|  |  |
| --- | --- |
| Request | response |
| {  "type":"get\_cecsetting ",  } | {  "type":"get\_cecsetting ", “status”:200  “value”:{  " cecEnable":”xxx”  “powerOnEnable”:”xxx”,  “powerOffEnable”:”xxx”,  “sourceEnable”:”xxx”,  “volumeEnable”:”xxx”  }  } |

1. general setting

|  |  |
| --- | --- |
| Request | response |
| {  "type":"get\_generalsetting ",  } | {  "type":"get\_generalsetting ", “status”:200  “value”:{  " standbyEnable":”xxx”  “hdmiAudioEnable”:”xxx”, }  } |

1. ip info

|  |  |
| --- | --- |
| Request | response |
| {  "type":"get\_ip ",  } | {  "type":"get\_ip ", “status”:200  “value”:{  "dhcp": “0 or 1” ,  “ipaddress”:”xxx”,  “gateway”:”xxx”,  “subnetmask”:”xxx”,  “dnsserver”:”xxx”, }  } |

8. power get

|  |  |
| --- | --- |
| Request | response |
| {  "type":" get\_powerstatus",  } | {  “type”:” get\_powerstatus”,  “value”:”0 or 1”,  “status”:200 } |

9. testMode get //For test mode

|  |  |
| --- | --- |
| Request | response |
| {  "type":" get\_dsptestmode", } | {  “type”:” get\_dsptestmode”,  “value”:”0 or 1”,  “status”:200 } |