

## 1.RS-232 Command:

Baudrate: 115200

Data width: 8bit

Parity: none

Stop: 1bit

All command package length is 13byte.

### query command:

1.query device type:

Send package: A5 5B 01 01 00 00 00 00 00 00 00 00 00 **checksum**

Receive package: A5 5B 01 01 01 00 00 00 00 00 00 00 00 **checksum**

The blue 01 mean HDMI Matrix.

#### Device List:

HDMI Matrix = 1

HDBT Matrix = 2

HDMI+HDBT Matrix = 3

HDMI2.0 =4

2.query the inport and outport numbers:

Send package: A5 5B 01 02 00 00 00 00 00 00 00 00 00 **checksum**

Receive package: A5 5B 01 02 08 00 08 00 00 00 00 00 00 **checksum**

The blue 08 mean 8 inputs.

The red 08 mean 8 outputs.

3.query software version

Send package: A5 5B 01 03 00 00 00 00 00 00 00 00 00 **checksum**

Receive package: A5 5B 01 03 01 00 22 00 00 00 00 00 00 **checksum**

The blue 01 mean the integer part is 1.

The red 22 mean the decimal part is 34.

4.query input (1~8)connection status:

Send package: A5 5B 01 04 01 00 00 00 00 00 00 00 00 FA

Receive package: A5 5B 01 04 01 00 FF 00 00 00 00 00 00 FB

The red 01 mean the input port number, it should be 1~8.

The blue FF mean this port is plug out, if 00 mean plug in.

5.query output(1~8)HPD status:

Send package: A5 5B 01 05 01 00 00 00 00 00 00 00 00 F9

Receive package: A5 5B 01 05 01 00 FF 00 00 00 00 00 00 FA

The red 01 mean the output port number, it should be 1~8.

The blue FF mean this port's HPD is LOW, if 00 mean HIGH.

6.query IR control status:

Send package: A5 5B 01 0a 00 00 00 00 00 00 00 00 F5

Receive package: A5 5B 01 0a 00 00 FF 00 00 00 00 00 F6

The blue FF mean IR disable, if 00 mean IR enable.

7.query beep status:

Send package: A5 5B 01 0B 00 00 00 00 00 00 00 00 F4

Receive package: A5 5B 01 0B 00 00 FF 00 00 00 00 00 F5

The blue FF mean Beep off, if 00 mean Beep on.

8.query input(1~8) edid index(1~27):

Send package: A5 5B 01 0C 01 00 00 00 00 00 00 00 checksum

Receive package: A5 5B 01 0C 01 00 01 00 00 00 00 00 checksum

The red 01 mean the input port number, it should be 1~8.

The blue 01 mean the Edid index number, it should be 0~26.

**Edid index list:**

720p,Stereo Audio 2.0	= 0
1080p,Stereo Audio 2.0	=1
1080p,Dolby/DTS 5.1	= 2
1080p,HD Audio 7.1	= 3
1080i,Stereo Audio 2.0	= 4
1080i,Dolby/DTS 5.1	= 5
1080i,HD Audio 7.1	= 6
3D,Stereo Audio 2.0	= 7
3D,Dolby/DTS 5.1	= 8
3D,HD Audio 7.1	= 9
4K2K30_444,Stereo Audio 2.0	= 10
4K2K30_444,Dolby/DTS 5.1	= 11
4K2K30_444,HD Audio 7.1	= 12
4K2K60_420,Stereo Audio 2.0	= 13
4K2K60_420,Dolby/DTS 5.1	= 14
4K2K60_420,HD Audio 7.1	= 15
4K2K60_444,Stereo Audio 2.0	=16
4K2K60_444,Dolby/DTS 5.1	=17
4K2K60_444,HD Audio 7.1	=18
COPY_FROM_TX_1	=19
COPY_FROM_TX_2	=20
COPY_FROM_TX_3	=21
COPY_FROM_TX_4	=22
COPY_FROM_TX_5	=23
COPY_FROM_TX_6	=24
COPY_FROM_TX_7	=25
COPY_FROM_TX_8	=26

#### 9.query port switch status:

Send package: A5 5B 02 01 01 00 00 00 00 00 00 00 FC

Receive package: A5 5B 02 01 01 00 01 00 00 00 00 00 FB

The red 01 mean the output port number, it should be 1~8.

The blue 01 mean the input port number, it should be 1~8.

#### 10.query rx resolution

Send package: A5 5B 21 21 01 00 00 00 00 00 00 00 checksum

Receive package: A5 5B 21 21 01 00 v\_res\_active\_low v\_res\_active\_high tmds\_clock\_low  
tmds\_clock\_high interlace color\_space checksum

The red 01 mean the input port number, it should be 1~8.

#### 11.query standby mdoe

Send package: A5 5B 08 0C 00 00 00 00 00 00 00 00 EC

Receive package: A5 5B 08 0C 0F 00 00 00 00 00 00 00 DD

The blue 0F mean Power on, if F0 mean Power off.

#### 12.query DHCP mode

Send package: A5 5B 22 0B 00 00 00 00 00 00 00 00 checksum

Receive package: A5 5B 22 0B 0F 00 00 00 00 00 00 00 checksum

The blue 0F mean DHCP on, if F0 mean DHCP off.

#### 13.query gateway

Send package: A5 5B 22 0D 00 00 00 00 00 00 00 00 checksum

Receive package: A5 5B 22 0D GATEWAY[0] GATEWAY[1] GATEWAY[2] GATEWAY[3] 00 00 00  
00 checksum

#### 14. query netmask

Send package: A5 5B 22 72 00 00 00 00 00 00 00 00 checksum

Receive package: A5 5B 22 72 NETMASK[0] NETMASK[1] NETMASK[2] NETMASK[3] 00 00 00  
00 checksum

#### 15.query ip

Send package: A5 5B 22 0F 00 00 00 00 00 00 00 00 checksum

Receive package: A5 5B 22 0F IP[0] IP[1] IP[2] IP[3] 00 00 00 00 checksum

#### 16.query MAC

Send package: A5 5B 22 14 00 00 00 00 00 00 00 00 checksum

Receive package: A5 5B 22 14 MAC[0] MAC[1] MAC[2] MAC[3] MAC[4] MAC[5] 00 00 checksum

#### 17.query DNS

Send package: A5 5B 22 76 00 00 00 00 00 00 00 00 checksum

Receive package: A5 5B 22 76 DNS[0] DNS[1] DNS[2] DNS[3] 00 00 00 00 checksum

18.query webport

Send package: A5 5B 22 78 00 00 00 00 00 00 00 00 00 **checksum**

Receive package: A5 5B 22 78 **WEBPORT\_H WEBPORT\_L** 00 00 00 00 00 00 **checksum**

## Configuration command:

1. switch the input port to all output:

Send package: A5 5B 02 02 **01** 00 00 00 00 00 00 00 FB

The red **01** mean the input port number, it should be 1~8.

2.switch certain input to certain output:

Send package: A5 5B 02 03 **01** 00 **02** 00 00 00 00 00 F8

The red **01** mean the input port number, it should be 1~8.

The blue **02** mean the output port number, it should be 1~8.

3.enable or disable local IR:

Send package: A5 5B 05 01 **0f** 00 00 00 00 00 00 00 EB

The red **0f** means IR enable, while **f0** means IR disable.

4. enable or disable beep:

Send package: A5 5B 06 01 **0f** 00 00 00 00 00 00 00 EA

The red **0f** means beep enable, while **f0** means beep disable.

5.set built in edid(1~19) to all input port:

Send package: A5 5B 03 01 **Edid index** f0 00 00 00 00 00 00 **checksum**

**Edid index: 1 ~ 19**

6.set built in edid(1~19) to certain input port:

Send package: A5 5B 03 02 **Edid index** f0 **Inport** 00 00 00 00 00 **checksum**

**Edid index: 1 ~ 19**

**Inport: 1 ~ 8**

7.copy sink edid to all input port:

Send package: A5 5B 03 03 **Output** 00 00 00 00 00 00 **checksum**

**Output: 1 ~ 8**

8.copy sink edid to one input port:

Send package: A5 5B 03 04 **Output** 00 **Inport** 00 00 00 00 00 **checksum**

**Output: 1 ~ 8**

**Inport: 1 ~ 8**

9.set default edid to all input

Send package: A5 5B 03 09 00 00 00 00 00 00 00 **checksum**

10 set default edid to one input

Send package: A5 5B 03 0a **01** 00 00 00 00 00 00 00 **checksum**

The red **01** mean the input port number, it should be 1~8.

11.factory reset

A5 5B 08 0A 00 00 00 00 00 00 00 EE

12.standby or power on

**Power on:** A5 5B 08 0B 0F 00 0F 00 00 00 00 CF

**Power off:** A5 5B 08 0B F0 00 F0 00 00 00 00 0D

13.reboot device

A5 5B 08 0D 00 00 00 00 00 00 00 EB

14.set DHCP mode

A5 5B 22 0A **0f** 00 00 00 00 00 00 **checksum**

The red **0f** means network is DHCP mode while **f0** means DHCP off.

15.set gateway

A5 5B 22 0C **GATEWAY[0]** **GATEWAY[1]** **GATEWAY[2]** **GATEWAY[3]** 00 00 00 00 **checksum**

16.set netmask

A5 5B 22 71 **NETMASK[0]** **NETMASK[1]** **NETMASK[2]** **NETMASK[3]** 00 00 00 00 **checksum**

17.set ip

A5 5B 22 0E **IP[0]** **IP[1]** **IP[2]** **IP[3]** 00 00 00 00 **checksum**

18.set mac

A5 5B 22 13 **MAC[0] MAC[1] MAC[2] MAC[3] MAC[4] MAC[5]**00 00 **checksum**

19.set dns

A5 5B 22 75 **DNS[0] DNS[1] DNS[2] DNS[3]** 00 00 00 00 **checksum**

20.set webport

A5 5B 22 77 **WEBPORT\_H WEBPORT\_L** 00 00 00 00 00 00 **checksum**

## **IR command:**

**NEC code**

**#define SYSTEM\_CODE 0x00**

IR_KEY_POWER	0x14
IR_KEY_OUTPUT_1	0x47
IR_KEY_OUTPUT_2	0x07
IR_KEY_OUTPUT_3	0x40
IR_KEY_OUTPUT_4	0x02
IR_KEY_OUTPUT_5	0x18
IR_KEY_OUTPUT_6	0x44
IR_KEY_OUTPUT_7	0x0f
IR_KEY_OUTPUT_8	0x51
IR_KEY_OUTPUT_ALL	0x0a
IR_KEY_INPUT_1	0x19
IR_KEY_INPUT_2	0x1b
IR_KEY_INPUT_3	0x11
IR_KEY_INPUT_4	0x15
IR_KEY_INPUT_5	0x17
IR_KEY_INPUT_6	0x12
IR_KEY_INPUT_7	0x59
IR_KEY_INPUT_8	0x08
IR_KEY_INPUT_NEXT	0x48
IR_KEY_INPUT_PRE	0x55