

**RS232 commands for SW-HD4X24k****1.RS-232 Command:**

Baudrate: 19200

Data width: 8bit

Parity: none

Stop: 1bit

**Port switch command package length is 13byte:**[0xa5+0x5b+0x02+0x03+**input port(1~4)**+0x00+**output port(1~2)**+0x00+0x00+0x00+0x00+0x00+**checksum**]

All you need to change is just "input port", "output port", "checksum"

Checksum = 0x100 - (0xa5+0x5b+0x02+0x03+**input port**+0x00+**output port**+0x00+0x00+0x00+0x00+0x00)

For example: Set output 1 form input 2 command:

A5 5B 02 03 02 00 01 00 00 00 00 00 F8

**Port switch query package length is 13byte:**

This is a query command which mean you must send query package and then receive an answer.

For example: Query output A input port (1~4)

Send package: A5 5B 02 01 **01** 00 00 00 00 00 00 00 FCReceive package: A5 5B 02 01 01 00 **01** 00 00 00 00 00 FBThe red **01** mean the output port number, it should be 1~2.The blue **01** mean the input port number, it should be 1~4.**ARC on/off command package length is 13byte:**[0xa5+0x5b+0x10+0x01+**ARC (0x0f:ON;0xf0:OFF)**+0x00+**output port(1~2)**+0x00+0x00+0x00+0x00+0x00+**checksum**]**ARC on/off query package is 13byte:**

This is a query command which mean you must send query package and then receive an answer.

For example:

Send package: A5 5B 10 02 00 00 **output port(1~2)**00 00 00 00 00 **checksum**Receive package: A5 5B 10 02 **F0** 00 **output port(1~2)** 00 00 00 00 00 **checksum**The blue **F0** mean ARC off, if **0F** mean ARC on.**Output HDP status query package is 13byte:**

This is a query command which mean you must send query package and then receive an answer.

For example: Query output 1(1~2) HPD status

Send package: A5 5B 01 05 **01** 00 00 00 00 00 00 00 F9Receive package: A5 5B 01 05 01 00 **FF** 00 00 00 00 00 FAThe red **01** mean the output port number, it should be 1~2.The blue **FF** mean this port's HPD is LOW, if **00** mean HIGH.**Input port status query package is 13byte:**

This is a query command which mean you must send query package and then receive an answer.

For example: Query input 1(1~4) status

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

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

The red 01 mean the input port number, it should be 1~4.

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

**Edid set command package length is 13byte:**

[0xa5+0x5b+0x03+0x02+Edid index(1~16)+0x00+input port(1~4)+0x00+0x00+0x00+0x00+0x00+checksum]

[0xa5+0x5b+0x03+0x01+Edid index(1~16)+0x00+0x00+0x00+0x00+0x00+0x00+0x00+checksum]

Means: set edid mode to all input port

**Edid query command package length is 13byte:**

This is a query command which mean you must send query package and then receive an answer.

For example: Query input 1 Edid index (1~16)

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 1~4.

The blue 01 mean the Edid index number, it should be 1~16.

**Edid index list:**

1080i,Stereo Audio 2.0	= 1
1080i,Dolby/DTS 5.1	= 2
1080i,HD Audio 7.1	= 3
1080p,Stereo Audio 2.0	= 4
1080p,Dolby/DTS 5.1	= 5
1080p,HD Audio 7.1	= 6
3D,Stereo Audio 2.0	= 7
3D,Dolby/DTS 5.1	= 8
3D,HD Audio 7.1	= 9
4K2K30,Stereo Audio 2.0	= 10
4K2K30,Dolby/DTS 5.1	= 11
4K2K30,HD Audio 7.1	= 12
4K2K60,Stereo Audio 2.0	= 13
4K2K60,Dolby/DTS 5.1	= 14
4K2K60,HD Audio 7.1	= 15
EDID_AUTO	=16

**Edid copy command package length is 13byte:**

[0xa5+0x5b+0x03+0x04+output port (1~2)+0x00+input port(1~4)+0x00+0x00+0x00+0x00+0x00+checksum]

Means: copy output port X edid to input port X

[0xa5+0x5b+0x03+0x03+output port (1~2)+0x00+0x00+0x00+0x00+0x00+0x00+0x00+checksum]

Means: copy output port X edid to all input port

**Beep on/off command package length is 13byte:**

[0xa5+0x5b+0x06+0x01+**Beep onoff(0x0f:ON; 0xf0:OFF)**+0x00+0x00+0x00+0x00+0x00+0x00+0x00+**checksum**]

**Beep on/off query package is 13byte:**

This is a query command which mean you must send query package and then receive an answer.

For example:

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.

**IR command:**

**NEC code**

**#define SYSTEM\_CODE 0x00**

#define IR\_KEY\_POWER 0x14

#define IR\_KEY\_OUTPUT\_1\_FROM\_1 0x09

#define IR\_KEY\_OUTPUT\_1\_FROM\_2 0x1D

#define IR\_KEY\_OUTPUT\_1\_FROM\_3 0x1F

#define IR\_KEY\_OUTPUT\_1\_FROM\_4 0x0D

#define IR\_KEY\_OUTPUT\_1\_PRE 0x1B

#define IR\_KEY\_OUTPUT\_1\_NEXT 0x11

#define IR\_KEY\_OUTPUT\_2\_FROM\_1 0x17

#define IR\_KEY\_OUTPUT\_2\_FROM\_2 0x12

#define IR\_KEY\_OUTPUT\_2\_FROM\_3 0x59

#define IR\_KEY\_OUTPUT\_2\_FROM\_4 0x08

#define IR\_KEY\_OUTPUT\_2\_PRE 0x55

#define IR\_KEY\_OUTPUT\_2\_NEXT 0x48