#### 1.RS-232 Command:

Baudrate: 115200 Data width: 8bit Parity: none Stop: 1bit

#### Port switch command package length is 13byte:

 $[0xa5 + 0x5b + 0x02 + 0x03 + \mathbf{input\ port(1\sim4)} + 0x00 + 0x01 + 0x00 + 0x00$ 

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

 $Checksum = 0x100 - (0xa5 + 0x5b + 0x02 + 0x03 + \mathbf{input\ port}(1 \sim 4) + 0x00 + 0x01 + 0x00 + 0x00 + 0x00 + 0x00 + 0x00 + 0x00)$ 

For example: Set output 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

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

## Resolution configure package length is 13byte:

[0xa5+0x5b+0x08+0x06+**resolution** $(0\sim4)+0x00+0x00+0x00+0x00+0x00+0x00+0x00+$ **checksum**]

All you need to change is just "iresolution", checksum"

 $Checksum = 0x100 - (0xa5 + 0x5b + 0x02 + 0x03 + \mathbf{resolution}(0 - 4) + 0x00 +$ 

resolution(0~4)分别为 1080P, 720P, 1080I, 1024X768, 1360X768

For example: Set output resolution 720P command:

A5 5B 08 06 01 00 00 00 00 00 00 00 F1

### Resolution 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 Resolution

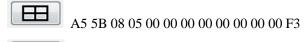
Send package: A5 5B 09 06 00 00 00 00 00 00 00 00 F1

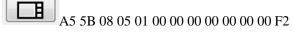
Receive package: A5 5B 09 06 01 00 00 00 00 00 00 00 F0

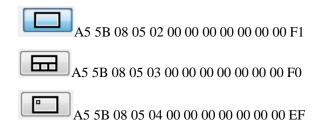
The blue 01 mean the resolution is 720P, it should be 0~4.

# MODE configure package length is 13byte:

There is only five modes







## MODE query package length is 13byte:

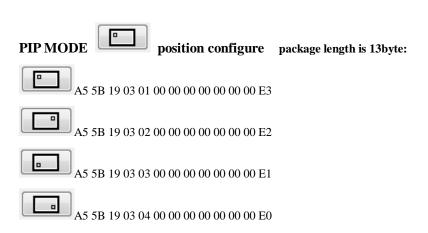
This is a query command which mean you must send query package and then receive an answer.

For example: Query MODE

Send package: A5 5B 09 05 00 00 00 00 00 00 00 00 F2

Receive package: A5 5B 09 05 01 00 00 00 00 00 00 00 F1

The blue 01 mean the MODE, it should be  $0\sim4$ 



# PIP MODE position 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 position

Send package: A5 5B 19 04 00 00 00 00 00 00 00 00 00 E3

Receive package: A5 5B 19 04 01 00 00 00 00 00 00 00 E2

The blue 01 mean the MODE, it should be 1~4.

#### PQ regulate package length is 13byte:

 $Checksum = 0x100 - (0xa5 + 0x5b + 0x08 + \textbf{TYPE}(1 \sim 4) + \textbf{DATA} + 0x00 + 0x00)$ 

TYPE (1~4) 分别为 Contrast, Brightness, Color, Sharpness

Contrast, Brightness annd Color DATA from 0 to 99; Sharpness DATA from 0 to 8

For example: Set Contrast 72 command:

#### PQ 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 Contrast

Send package: A5 5B 09 01 00 00 00 00 00 00 00 00 F6 Receive package: A5 5B 09 01 32 00 00 00 00 00 00 00 C4

The red 01 mean query the Contrast, it should be 1~4(Contrast, Brightness, Color, Sharpness)

The blue 32 mean the Contrast is 50, it should be  $0\sim99$ .

# Rsset sys configure package length is 13byte:

Send package: A5 5B 08 0A 00 00 00 00 00 00 00 00 EE Receive package: A5 5B 08 0A 00 00 00 00 00 00 00 00 EE

# OSD enable configure package length is 13byte:

ON :A5 5B 08 09 01 00 00 00 00 00 00 00 EE OFF :A5 5B 08 09 00 00 00 00 00 00 00 00 EF

## OSD enable 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 OSD enable

Send package: A5 5B 0A 09 00 00 00 00 00 00 00 00 ED Receive package: A5 5B 0A 09 01 00 00 00 00 00 00 00 EC

The blue 01 mean the OSD is enable, it should be  $0\sim1$ . (if 00, it mean disable)

# Show Border configure package length is 13byte:

**Show Border** :A5 5B 0C 01 0F 00 0F 00 00 00 00 00 05 **Hidden Border** :A5 5B 0C 01 F0 00 F0 00 00 00 00 13

## Show Border 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 Border State

Send package: A5 5B 0C 03 00 00 00 00 00 00 00 00 F1

Receive package: A5 5B 0C 03 0F 00 00 00 00 00 00 00 E2

The blue OF mean the Show Border, it should be 0~1. (if F0, it mean Hidden Border)

## IR command:

## NEC code

# #define SYSTEM\_CODE 0x08

#define	IRCODE_1080P	0x55
#define	IRCODE_720P	0x17
#define	IRCODE_1080I	0x57
#define	IRCODE_1024X768	0x4C

#define	IRCODE_1360X768	0x4E	
#define	IRCODE_F1	0x0D	
#define	IRCODE_F2	0x56	
#define	IRCODE_Reset	0x16	
#define	IRCODE_OneCh	0x08	
#define	IRCODE_MainSub	0x48	
#define	IRCODE_FourCh	0x4b	
#define	IRCODE_INPUT1	0x4D	
#define	IRCODE_INPUT2	0x41	
#define	IRCODE_INPUT3	0x49	
#define	IRCODE_INPUT4	0x0B	
#define	IRCODE_INPUT_LEFT	0x54	
#define	IRCODE_INPUT_RIGHT	0x47	
#define	IRCODE_Contrast_L	0x4F	
#define	IRCODE_Contrast_R	0x44	
#define	IRCODE_Brightness_L	0x50	
#define	IRCODE_Brightness_R	0x0E	
#define	IRCODE_Color_L	0x13	
#define	IRCODE_Color_R	0x12	
#define	IRCODE_Sharpness_L	0x15	
#define	IRCODE_Sharpness_R	0x53	