

## 1 RS-232 Communication Protocol

The following is the COM port setting:

Baud Rate: 9600bps

Parity: None

Data Bits: 8bits

Stop Bits: 1bit

Set CTS Mode: Off

Set XON/XOFF: Off

### Set and get command

Set Command

Type in : Y■Control\_Type■Function■Param■CR

Reply: Z■Control\_Type■Function■Param■CRDone>CR

Get Command:

Type in : Y■Control\_Type■Function■CR

Reply: Z■Control\_Type■Function■Param■CR

### Example:

1. "Y■1■16■32△CR" -> set **Brightness** value as 32

"Z■1■16■32■CR>" --> Reply value

"DoneCR" --> command setting succeeded

2. "Y■4■21■CR" -> get current output resolution

"Z■4■21■2■CR>" -> current resolution is **SVGA**

Table 1: RS-232 Protocol

Control Type	Function	Param (for Set)	Function Description	Comment
0	0	N/A	SIZE button on remote control	
0	1	N/A	POWER button on remote control	
0	2	N/A	FREEZE button on remote control	
0	3	N/A	480p button on remote control	
0	4	N/A	576p button on remote control	
0	5	N/A	720p button on remote control	
0	6	N/A	1080i button on remote control	
0	7	N/A	1080p button on remote control	
0	8	N/A	VGA button on remote control	
0	9	N/A	SVGA button on remote control	

Control Type	Function	Param (for Set)	Function Description	Comment
0	10	N/A	XGA button on remote control	
0	11	N/A	SXGA button on remote control	
0	12	N/A	WXGA button on remote control	
0	13	N/A	UXGA button on remote control	
0	14	N/A	INFO button on remote control	
0	15	N/A	UP button on remote control	
0	16	N/A	NATIVE button on remote control	
0	17	N/A	LEFT button on remote control/Volume down	Volume down when not in OSD
0	18	N/A	OK button on remote control	
0	19	N/A	RIGHT button on remote control/Volume up	Volume up when not in OSD
0	20	N/A	MENU button on remote control	
0	21	N/A	DOWN button on remote control	
0	22	N/A	EXIT button on remote control	
0	23	N/A	AV1 button on remote control	
0	25	N/A	COMP1 button on remote control	
0	26	N/A	HDMI1 button on remote control	
0	27	N/A	HDMI2 button on remote control	
0	28	N/A	COMP2 button on remote control	
0	29	N/A	PC1 button on remote control	
0	30	N/A	BLANK button on remote control	
0	31	N/A	MUTE button on remote control	
0	33	N/A	Auto adjust	
0	34	N/A	AV2 button on remote control	
0	35	N/A	PC2 button on remote control	
0	36	N/A	HDMI3 button on remote control	
0	37	N/A	HDMI4 button on remote control	
1: Set 2: Get	4	0~100	Color: Red	
1: Set 2: Get	5	0~100	Color: Green	
1: Set 2: Get	6	0~100	Color: Blue	
1: Set 2: Get	16	0~100	Brightness	
1: Set 2: Get	17	0~100	Contrast	
1: Set 2: Get	25	0~100	Hue	
1: Set 2: Get	26	0~100	Sharpness	
1: Set 2: Get	29	0~100	Saturation	
1: SET 2: GET	33	0~100	set an absolute volume for Output	

Control Type	Function	Param (for Set)	Function Description	Comment
1 : SET 2 : GET	34	0~100	set an absolute volume for Input	
1: Set 2: Get	41	0~100	OSD Setting :H-Position	
1: Set 2: Get	42	0~100	OSD Setting: V-Position	
1: Set 2: Get	43	0~100	OSD Timeout	
1: Set 2: Get	44	0~8	OSD Background	
1: Set 2: Get	50	0~3	NR (Noise Reduction)	0: Off 1: Low 2: Mid 3: High
1: Set 2: Get	51	0~3	Audio delay	0: Off 1: 40ms 2: 110ms 3: 150ms
1: Set 2: Get	52	0~2	HDMI AUDIO IN	0 : AUTOMATIC 1 : EMBEDDED 2 : ANALOG
1: Set 2: Get	84	0~1	Auto Sync Off	0 : OFF 1 : ON
1: Set 2: Get	95	0 ~1	DROP LINE	0: OFF 1: ON
1: Set 2: Get	160	0~1	HDCP ON INPUT	0 : OFF 1 : ON
1: Set 2: Get	161	0~1	HDCP ON OUTPUT	0 : Follow input 1 : Follow output
3: Set 4: Get	0	1~10	Select Input Source	1: AV1 2: AV2 3: COMP1 4: COMP2 5: PC1 6:PC2 7: HDMI1 8: HDMI2 9: HDMI3 10: HDMI4
3: Set 4: Get	1	0~6	Size	0: Full 1: Panscan 2: Overscan 3: Underscan 4: Letterbox 5: Underscan6 <b>6. BEST FIT</b>
3: Set 4: Get	21	<b>0~27</b>	Output Resolution	0: Native 1: VGA 2: SVGA

Control Type	Function	Param (for Set)	Function Description	Comment
				3: XGA 4: SXGA 5: UXGA 6: 480i 7: 480p 8: 720p60 9: 1080i60 10: 1080p60 11: 576i 12: 576p 13: 720p50 14: 1080i50 15: 1080p50 16: WXGA 17: WSXGA 18: WUXGA 19 1280x800 20 :WXGA+ (1440X900) 21 SXGA+ (1400X1050) 22 : 1600x900 (F/W#1.32) 23 : 480i59 ( V1.42 ) 24 : 480p59 25: 720p59 26: 1080i59 27: 1080p59
3: Set	23	1	Factory Reset	
4 : Get	24	0~24	INPUT Resolution (V1.41)	0: Unknown 1: VGA 2. SVGA 3: XGA 4: SXGA 5: UXGA 6: 480i 7: 480p 8: 720p60 9: 1080i60 10: 1080p60 11: 576i 12: 576p 13: 720p50 14: 1080i50 15: 1080p50 16: WXGA 17: WSXGA 18: WUXGA 19: 1280x800 20 WXGA+ ( 1440X900 ) 21: SXGA+ ( 1400X1050 ) 22: 1600X900 23: 2048X1080/50 24: 2048X1080/60

Control Type	Function	Param (for Set)	Function Description	Comment
6: Set 7: Get	0	0~2	Power	0: Power Down 1: Power On 2 : Reboot
6: Set 7: Get	1	0~1	Freeze	0: Off 1: On
6: Set 7: Get	2	0~1	Blank	0: Off 1: On
6: Set 7: Get	3	0~1	Mute	0: Off 1: On
6: Set 7: Get	4	0~1	Key lock	0: Off 1: On
6 : set 7 : get	140	0~1	Auto Tune (under fine tune)	0 : Clear Auto Tune 1 : Set Auto Tune