

## RS-232C Protocol

## RS232 Setting

Baud rate:	<b>9600</b>
Parity check:	<b>None</b>
Data bit:	<b>8</b>
Stop bit:	<b>1</b>
Flow Control	<b>None</b>

Minimum delay for next command: **1ms**

## Control Command Structure

	Header code	Command code	Data code	End code
<b>HEX</b>		<b>Command</b>	<b>Data</b>	<b>0Dh</b>
<b>ASCII</b>	<b>'V'</b>	<b>Command</b>	<b>Data</b>	<b>CR</b>

## Operation Command

Note:  
 XX=00-98, projector's ID, XX=99 is for all projectors  
 Return Result P=Pass / F=Fail  
 n: 0:Disable/1: Enable/Value(0~9999)

## Command Group 00

ASCII	Function	Description	Return Result
VXXS0001	Power On		P/F
VXXS0002	Power Off		P/F
VXXS0003	Resync		P/F
VXXG0004	Get Lamp Hours		Pn/F
VXXS0006	System Reset		P/F
VXXG0007	Get System Status	0:Reset 1:Standby 2:Operation 3:Cooling	Pn/F
VXXG0008	Get F/W Version		Pn/F

## Command Group 01

ASCII	Function	Description	Return Value
VXXG0101	Get Brightness	n=0~100	Pn/F
VXXS0101n	Set Brightness	n=0~100	P/F
VXXG0102	Get Contrast	n=0~100	Pn/F
VXXS0102n	Set Contrast	n=0~100	P/F
VXXG0103	Get Color	n=0~100	Pn/F
VXXS0103n	Set Color	n=0~100	P/F
VXXG0104	Get Tint	n=0~100	Pn/F
VXXS0104n	Set Tint	n=0~100	P/F
VXXG0105	Get Sharpness	0~31	Pn/F
VXXS0105n	Set Sharpness	0~31	P/F

VXXG0106	Get Color Temperature	0: Cold 1: Normal 2: Warm	Pn/F
VXXS0106n	Set Color Temperature	0: Cold 1: Normal 2: Warm	P/F
VXXG0107	Get Gamma	0: PC 1: MAC 2: Video 3: Chart 4: B&W	Pn/F
VXXS0107n	Set Gamma	0: PC 1: MAC 2: Video 3: Chart 4: B&W	P/F

**Command Group 02**

ASCII	Function	Description	Return Value
VXXS0201	Select RGB		P/F
VXXS0202	Select RGB2		P/F
VXXS0203	Select DVI		P/F
VXXS0204	Select Video		P/F
VXXS0205	Select S-Video		P/F
VXXS0206	Select HDMI		P/F
VXXS0207	Select BNC		P/F
VXXG0220	Get Current Source	Return 1: RGB 2: RGB2 3: DVI 4: Video 5: S-Video 6: HDMI 7: BNC	Pn/F

**Command Group 03**

ASCII	Function	Description	Return Value
VXXG0301	Get Scaling	0: Fill 1: 4:3 2: 16:9 3: Letter Box 4: Native	Pn/F
VXXS0301n	Set Scaling	0: Fill 1: 4:3 2: 16:9 3: Letter Box 4: Native	P/F
VXXG0302	Blank		Pn/F
VXXS0302n	Blank		P/F
VXXG0303	Auto Keystone On		Pn/F

VXXS0303n	Auto Keystone On		P/F
VXXG0304	Freeze On		Pn/F
VXXS0304n	Freeze On		P/F
VXXG0305	Volume	n=0~8	Pn/F
VXXS0305n	Volume	n=0~8	P/F
VXXG0308	Projection Mode	0:Front 1:Rear 2:Ceiling 3:Rear+Ceiling	Pn/F
VXXS0308n	Projection Mode	0:Front 1:Rear 2:Ceiling 3:Rear+Ceiling	P/F
VXXG0309	Get vertical keystone value	n= -30~30	Pn/F
VXXS0309n	Set vertical keystone value	n= -30~30	P/F
VXXG0311	Adjust the zoom	n=-10~10	Pn/F
VXXS0311n	Adjust the zoom	n=-10~10	P/F
<b>Command Group 04 (Remote Control)</b>			
<b>ASCII</b>	<b>Function</b>	<b>Description</b>	<b>Return Value</b>
VXXS0401	UP arrow		P/F
VXXS0402	DOWN arrow		P/F
VXXS0403	LEFT arrow		P/F
VXXS0404	RIGHT arrow		P/F
VXXS0405	POWER		P/F
VXXS0406	EXIT		P/F
VXXS0407	INPUT		P/F
VXXS0408	AUTO		P/F
VXXS0409	KEystone+		P/F
VXXS0410	KEystone-		P/F
VXXS0411	MENU		P/F
VXXS0412	STATUS		P/F
VXXS0413	MUTE		P/F
VXXS0414	ZOOM+		P/F
VXXS0415	ZOOM-		P/F
VXXS0416	BLANK		P/F
VXXS0417	FREEZE		P/F
VXXS0418	VOLUME+		P/F
VXXS0419	VOLUME-		P/F
VXXS0420	Enter		P/F