RS-232c Protocol

NULL Cable is required

RS-232 Setting

Baud rate:	9600
Parity check:	None
Data bit:	8
Stop bit:	1
Flow control:	None

Examples:

Control items	Input command row	Projector return message
Execute command	reset.all[CR]	RESET.ALL
Query current brightness	op bright ?[CR]	OP BRIGHT =50
Set up brightness	op bright =100[CR]	OP BRIGHT =100
Brightness value + 1	op bright +[CR]	OP BRIGHT ="new value"
Brightness value - 1	op bright -[CR]	OP BRIGHT ="new value"
Out of range or not support	op bright =200[CR]	OP BRIGHT =NA
Illegal command	op abright =100[CR]	*Illegal format#

Function	Type	Operation	Support	ASCII
Power	Write	Power On	Y	op power.on<CR>
	Write	Power off	Y	op power.off<CR>
	Read	Power Status	Y	op standby.power ?<CR>
Source Selection	Write	HDMI 1	Y	op input.sel =0<CR>
	Write	HDMI 2	Y	op input.sel =1<CR>
	Write	Media	Y	op input.sel =2<CR>
	Read	Current source	Y	op input.sel ?<CR>
Display Mode	Write	Bright	Y	op pic.mode =0<CR>
	Write	Vivid TV	Y	op pic.mode =1<CR>
	Write	Cinema	Y	op pic.mode =2<CR>
	Write	User	Y	op pic.mode =3<CR>
	Read	Display Mode	Y	op pic.mode ?<CR>
	Write	Reset Current Display Mode	Y	op pic.reset<CR>
User Mode	Write	Refer Bright	Y	op ref.pic =0<CR>
	Write	Refer Vivid TV	Y	op ref.pic =1<CR>
	Write	Refer Cinema	Y	op ref.pic =2<CR>
Color Setting	Write	Brightness level for customer	Y	op bright =100<CR>
	Read	Brightness value	Y	op bright ?<CR>
	Write	Contrast level for customer	Y	op contrast =100<CR>
	Read	Contrast value	Y	op contrast ?<CR>
	Write	Color level for customer	Y	op color =100<CR>
	Read	Color value	Y	op color ?<CR>
	Write	Tint level for customer	Y	op tint =100<CR>
	Read	Tint value	Y	op tint ?<CR>
	Write	Sharpness level for customer	Y	op sharp =0<CR>
	Read	Sharpness value	Y	op sharp ?<CR>
	Write	Gamma 1.8	Y	op gamma =0<CR>
	Write	Gamma 2.0	Y	op gamma =1<CR>
	Write	Gamma 2.1	Y	op gamma =2<CR>
	Write	Gamma 2.2	Y	op gamma =3<CR>
	Write	Gamma 2.3	Y	op gamma =4<CR>
	Write	Gamma 2.4	Y	op gamma =5<CR>
	Write	Gamma 2.5	Y	op gamma =6<CR>
	Write	Gamma 2.6	Y	op gamma =7<CR>
	Write	Gamma User (TBD)	Y	op gamma =8<CR>
	Write	Color Temperature - Normal	Y	op color.temp =0<CR>
	Write	Color Temperature - Warm	Y	op color.temp =1<CR>
	Write	Color Temperature - Cool	Y	op color.temp =2<CR>
	Write	Color Temperature - Lamp Native	Y	op color.temp =3<CR>
	Read	Color Temperature Status	Y	op color.temp ?<CR>
	Write	Color Temperature - Red Gain	Y	op red.gain =100<CR>
	Read	Color Temperaturet - Red Gain value	Y	op red.gain ?<CR>
	Write	Color Temperaturet - Green Gain	Y	op green.gain =100<CR>
	Read	Color Temperature - Green Gain value	Y	op green.gain ?<CR>
	Write	Color Temperature- Blue Gain	Y	op blue.gain =100<CR>
	Read	Color Temperature - Blue Gain value	Y	op blue.gain ?<CR>
	Write	Color Temperature - Red Offset	Y	op red.offset =100<CR>
	Read	Color Temperature - Red Offset value	Y	op red.offset ?<CR>
	Write	Color Temperature - Green Offset	Y	op green.offset =100<CR>
	Read	Color Temperature - Green Offsetvalue	Y	op green.offset ?<CR>
	Write	Color Temperature - Blue Offset	Y	op blue.offset =100<CR>
	Read	Color Temperature - Blue Offset value	Y	op blue.offset ?<CR>
	Write	Color Management - Red Gain	Y	op hsg.r.gain =100<CR>
	Write	Color Management - Red/Hue	Y	op hsg.r.hue =100<CR>
	Write	Color Management - Red/Saturation	Y	op hsg.r.sat =100<CR>
	Write	Color Management - Green Gain	Y	op hsg.g.gain =100<CR>
	Write	Color Management - Green/Hue	Y	op hsg.g.hue =100<CR>
	Write	Color Management - Green/Saturation	Y	op hsg.g.sat =100<CR>
	Write	Color Management - Blue Gain	Y	op hsg.b.gain =100<CR>
	Write	Color Management - Blue/Hue	Y	op hsg.b.hue =100<CR>
	Write	Color Management - Blue/Saturation	Y	op hsg.b.sat =100<CR>
	Write	Color Management - Cyan Gain	Y	op hsg.c.gain =100<CR>
	Write	Color Management - Cyan/Hue	Y	op hsg.c.hue =100<CR>
	Write	Color Management - Cyan/Saturation	Y	op hsg.c.sat =100<CR>

Color Setting	Write	Color Management - Magenta Gain	Y	op hsg.m.gain =100<CR>
	Write	Color Management - Magenta/Hue	Y	op hsg.m.hue =100<CR>
	Write	Color Management - Magenta/Saturation	Y	op hsg.m.sat =100<CR>
	Write	Color Management - Yellow Gain	Y	op hsg.y.gain =100<CR>
	Write	Color Management - Yellow/Hue	Y	op hsg.y.hue =100<CR>
	Write	Color Management - Yellow/Saturation	Y	op hsg.y.sat =100<CR>
	Write	ViviSettings - Color Enhencer	Y	op color.en =8<CR>
	Write	ViviSettings - Flesh Tone	Y	op flesh.t =0<CR>
	Write	ViviSettings - ViviPeaking	Y	op vivi.peaking =0<CR>
	Write	ViviSettings - ViviMotion	Y	op vivi.motion =0<CR>
	Write	Noise Reduction	Y	op noise.r =0<CR>
	Write	ViviBlack	Y	op vivi.black =0<CR>
	Write	Brilliant color	Y	op bri.color =1<CR>
	Read	Brilliant color status	Y	op bri.color ?<CR>
Picture	Write	Digital Zoom	Y	op zoom =0<CR>
	Write	3D Auto	Y	op threed.format =0<CR>
	Write	3D Sync Top Bottom	Y	op threed.format =1<CR>
	Write	3D Sync Side by side	Y	op threed.format =2<CR>
	Write	3D Off	Y	op threed.format =3<CR>
	Read	3D Status	Y	op threed.format ?<CR>
	Write	3D inverter	Y	op threed.syncinvert =1<CR>
	Write	HDR	Y	op hdr.control =1<CR>
	Write	Quietest	Y	op quietest =1<CR>
	Write	Aspect Auto	Y	op aspect =0<CR>
	Write	Aspect real	Y	op aspect =1<CR>
	Write	Aspect 4:3	Y	op aspect =2<CR>
	Write	Aspect 16:9	Y	op aspect =3<CR>
	Read	Aspect Status	Y	op aspect ?<CR>
	Write	Keystone vertical	Y	op v.keystone =30<CR>
Settings	Write	Projector Position-Front	Y	op projection =0<CR>
	Write	Projector Position-Front+Ceiling	Y	op projection =1<CR>
	Write	Projector Position-Rear	Y	op projection =2<CR>
	Write	Projector Position-Rear+Ceiling	Y	op projection =3<CR>
	Read	Projector Position Status	Y	op projection ?<CR>
	Write	Language	Y	op lang =0<CR>
	Write	splash screen	Y	op splash.screen =0<CR>
	Write	Auto Off Timer	Y	op sleep.timer =0<CR>
	Write	Direct Power On	Y	op direct.poweron =1<CR>
	Read	Direct Power On-Status	Y	op direct.poweron ?<CR>
	Write	Menu Position	Y	op menu.position =0<CR>
	Write	Menu Display Time	Y	op menu.timer =0<CR>
	Write	Message	Y	op message =0<CR>
	Write	Auto Source	Y	op auto.src =0<CR>
Audio Settings	Write	Mute On	Y	op mute =1<CR>
	Write	Mute Off	Y	op mute =0<CR>
	Read	Mute Status	Y	op mute ?<CR>
	Write	Volume level for customer	Y	op volume =0<CR>
	Read	Volume Status	Y	op volume ?<CR>
	Write	S/PDIF ON	Y	op spdif =1<CR>
	Read	S/PDIF Status	Y	op spdif ?<CR>
	Write	Sound Mode : Nromal	Y	op sound.mode =0<CR>
	Write	Sound Mode : Cinema	Y	op sound.mode =1<CR>
	Write	Sound Mode : Music	Y	op sound.mode =2<CR>
	Write	Sound Mode : Dynamic	Y	op sound.mode =3<CR>
	Write	Sound Mode : User	Y	op sound.mode =5<CR>
	Write	User EQ - 100Hz	Y	op UserEQ.100hz =10<CR>
	Read	User EQ - 100Hz	Y	op UserEQ.100hz ?<CR>
	Write	User EQ - 300Hz	Y	op UserEQ.300hz =10<CR>
	Read	User EQ - 300Hz	Y	op UserEQ.300hz ?<CR>
	Write	User EQ - 1kHZ	Y	op UserEQ.1khz =10<CR>
	Read	User EQ - 1kHZ	Y	op UserEQ.1khz ?<CR>
	Write	User EQ - 3kHz	Y	op UserEQ.3khz =10<CR>
	Read	User EQ - 3kHz	Y	op UserEQ.3khz ?<CR>
	Write	User EQ - 10kHz	Y	op UserEQ.10khz =10<CR>
	Read	User EQ - 10kHz	Y	op UserEQ.10khz ?<CR>

	Write	Reset Audio Settings	Y	op audio.reset<CR>
Light Settings	Write	Normal mode	Y	op light.mode =0<CR>
	Write	ECO mode	Y	op light.mode =1<CR>
	Write	Dynamic ECO mode	Y	op light.mode =2<CR>
	Read	Light Mode Status	Y	op light.mode ?<CR>
	Write	Light Timer Reset	Y	op light1.reset<CR>
	Read	Light Timer	Y	op light1.hours ?<CR>
Management	Write	HDMI Settings	Y	op hdmi.range =0<CR>
	Write	Change New password & Power on lock =	Y	op security.lock =<CR>
	Write	Remove psaaword & Power on lock = off	Y	op security.unlock =<CR>
	Write	Key lock	Y	op keypad.lock =0<CR>
	Write	LED Indicator	Y	op led =0<CR>
	Write	Test Pattern	Y	op test.pattern =0<CR>
	Write	12V Trigger	Y	op trigger =0<CR>
	Write	High Altitude mode off	Y	op fanspeed =0<CR>
	Write	Firmware Upgrade	Y	op fwupgrade<CR>
	Write	Reset all settings	Y	op reset.all<CR>
Miscellaneous	Read	Model Name	Y	op model ?<CR>
	Read	Eco Blank Status	Y	op ecoblank ?<CR>
	Write	Eco Blank	Y	op ecoblank =1<CR>
	Write	Freeze	Y	op Freeze =1<CR>
	Read	Freeze Status	Y	op Freeze ?<CR>
	Write	Menu On/Off	Y	op menu<CR>
	Write	Back	Y	op back<CR>