

Baud Rate 115200 (default, depends on user setting)
 Data Bits 8
 Parity None
 Stop Bits 1
 Flow Control None
 UART16550 FIFO Disable

■ Write Command

~	X	X	X	X	X		n	CR
Lead Code	Projector ID		Command			space	variable	carriage return
Prefix	00~99 (Default: 00)		000~999				0~9999	suffix

Pass:

Fail:

■ Read Command

~	X	X	X	X	X		n	CR
Lead Code	Projector ID		Command			space	variable	carriage return
Prefix	00~99 (Default: 00)		000~999				0~9999	suffix

Response Format

Pass:

O	k	n
Variable		

 Fail:

■ System Automatically Send

I	N	F	O	n
				Variable

Note : There is a <CR> after all ASCII commands. 0D is the HEX code for <CR> in ASCII code

Character to HEX table

Character	HEX
~	7E
0	30
1	31
2	32
3	33
4	34
5	35
6	36
7	37
8	38
9	39
Space	20
CR (Enter)	0D

e.g.

ASCII to HEX

RS232 Command	~	0	0	1	9	5		1	CR
HEX	7E	30	30	31	39	35	20	31	0D

RS232 Protocol Function List
Main Menu: Image

Level 2	Level 3	Level 4	Level 5	Option / Value	Step	Write Command					
						Command			Response		
						CMD	Set Para.	Fail	Pass		
Picture Mode				[None]							
				Presentation		~XX20	1	F	P		
				Bright		~XX20	2	F	P		
				Super Bright (Depends on model)		~XX20	23	F	P		
				Cinema		~XX20	3	F	P		
				HDR		~XX20	21	F	P		
				sRGB		~XX20	4	F	P		
				DICOM SIM.		~XX20	13	F	P		
				Blending		~XX20	19	F	P		
				3D		~XX20	9	F	P		
				2D High Speed		~XX20	18	F	P		
				User		~XX20	6,26,30~37	F	P		
	Dynamic Range	HDR			Off		~XX565	0	F	P	
				Auto		~XX565	1	F	P		
HDR Picture Mode				Bright		~XX566	0	F	P		
				Standard		~XX566	1	F	P		
				Film		~XX566	2	F	P		
		Detail		~XX566	3	F	P				
Brightness				0-100	1	~XX21	0~100	F	P		
Contrast				0-100	1	~XX22	0~100	F	P		
Sharpness				1 - 15	1	~XX23	1~15	F	P		
Gamma				Film		~XX35	1	F	P		
				Graphics		~XX35	3	F	P		
				Standard(2.2)		~XX35	4	F	P		
				Vivid		~XX35	21	F	P		
				3D		~XX35	9	F	P		
				Blackboard		~XX35	10	F	P		
				DICOM SIM.		~XX35	11	F	P		
				1.8		~XX35	5	F	P		
				2		~XX35	6	F	P		
				2.4		~XX35	12	F	P		
				2.6		~XX35	8	F	P		
Dynamic Contrast	Dynamic Black			Off		~XX191	0	F	P		
				On		~XX191	1	F	P		
	Speed			1-15	1	~XX253	1~15	F	P		
	Strength			0-3	1	~XX254	0~3	F	P		
	Level			50%-100%	1%	~XX255	50~100	F	P		
	Extreme Black			Off		~XX218	0	F	P		
				On		~XX218	1	F	P		
AV Mute Timer			0.0s-10.0s	0.5s	~XX256	0~20	F	P			
Black Signal Level			0-5	1	~XX257	0~5	F	P			
Color Settings	Color			0-100	1	~XX45	0~100	F	P		
				0-100	1	~XX44	0~100	F	P		
	Color Temperature			Warm		~XX36	4	F	P		
				Standard		~XX36	1	F	P		
				Cool		~XX36	2	F	P		
	White Balance	Red Gain			0-100	1	~XX24	0~100	F	P	
		Green Gain			0-100	1	~XX25	0~100	F	P	
		Blue Gain			0-100	1	~XX26	0~100	F	P	
		Red Offset			0-100	1	~XX27	0~100	F	P	
		Green Offset			0-100	1	~XX28	0~100	F	P	

Read Command				
Command		Response		
CMD	Set Para.	Fail	Pass	
~XX123	1	F	O	k 0
~XX123	1	F	O	k 1
~XX123	1	F	O	k 2
~XX123	1	F	O	k 23
~XX123	1	F	O	k 3
~XX123	1	F	O	k 21
~XX123	1	F	O	k 4
~XX123	1	F	O	k 10
~XX123	1	F	O	k 19
~XX123	1	F	O	k 9
~XX123	1	F	O	k 18
~XX123	1	F	O	k 6,26,30~37
~XX125	1	F	O	k 0~100
~XX126	1	F	O	k 0~100
~XX128	1	F	O	k 3
~XX128	1	F	O	k 0
~XX128	1	F	O	k 1

Main Menu: Image

Level 2	Level 3	Level 4	Level 5	Option / Value	Step	Write Command						
						Command			Response			
						CMD	Set Para.	Fail	Pass			
		Blue Offset		0-100	1	~XX29	0~100	F	P			
	White Enhancement			0-10	1	~XX34	0~10	F	P			
	Color Space			Auto		~XX37	1	F	P			
				RGB (0-255)		~XX37	2	F	P			
				RGB (16-235)		~XX37	4	F	P			
				REC709		~XX37	5	F	P			
				REC601		~XX37	6	F	P			
	Color Matching	Auto Test Pattern		Off		~XX411	0	F	P			
				On		~XX411	1	F	P			
		Red	Hue	Saturation	0-254	1	~XX327	0-254	F	P		
							0-254	1	~XX333	0-254	F	P
							0-254	1	~XX339	0-254	F	P
		Green	Hue	Saturation	0-254	1	~XX328	0-254	F	P		
							0-254	1	~XX334	0-254	F	P
							0-254	1	~XX340	0-254	F	P
		Blue	Hue	Saturation	0-254	1	~XX329	0-254	F	P		
							0-254	1	~XX335	0-254	F	P
							0-254	1	~XX341	0-254	F	P
		Cyan	Hue	Saturation	0-254	1	~XX330	0-254	F	P		
							0-254	1	~XX336	0-254	F	P
							0-254	1	~XX342	0-254	F	P
		Magenta	Hue	Saturation	0-254	1	~XX332	0-254	F	P		
							0-254	1	~XX338	0-254	F	P
							0-254	1	~XX344	0-254	F	P
		Yellow	Hue	Saturation	0-254	1	~XX331	0-254	F	P		
							0-254	1	~XX337	0-254	F	P
						0-254	1	~XX343	0-254	F	P	
	White	Red	Green	0-254	1	~XX345	0-254	F	P			
						0-254	1	~XX346	0-254	F	P	
						0-254	1	~XX347	0-254	F	P	
	Reset					~XX215	1	F	P			
Wall Color				Off		~XX506	0	F	P			
				Blackboard		~XX506	1	F	P			
				Light Yellow		~XX506	7	F	P			
				Light Green		~XX506	3	F	P			
				Light Blue		~XX506	4	F	P			
				Pink		~XX506	5	F	P			
				Gray		~XX506	6	F	P			
3D Setup	3D Mode			Off		~XX230	4	F	P			
				Active 3D		~XX230	0	F	P			
				Passive 3D		~XX230	5	F	P			
	3D Format				Auto		~XX405	0	F	P		
					Frame Packing		~XX405	7	F	P		
					Side by Side		~XX405	1	F	P		
					Top and Bottom		~XX405	2	F	P		
					Frame Sequential		~XX405	3	F	P		
	3D Tech				DLP-link		~XX230	1	F	P		
					3D Sync		~XX230	3	F	P		
	3D-2D				3D		~XX400	0	F	P		
				L		~XX400	1	F	P			
				R		~XX400	2	F	P			

Read Command			
Command		Response	
CMD	CMD Value	Fail	Pass

Note: Some commands are not supported, it's depends on models

Main Menu: Image

Level 2	Level 3	Level 4	Level 5	Option / Value	Step	Write Command				Read Command				
						Command			Response		Command		Response	
						CMD	Set	Para.	Fail	Pass	CMD	Response	Fail	Pass
	3D Sync Out			To Emitter		~XX232	0		F	P				
				To Next Projector		~XX232	1		F	P				
	3D Invert			Off		~XX231	0		F	P				
				On		~XX231	1		F	P				
	Frame Delay			1-200	1	~XX233	1~500		F	P				
Reset					~XX234	1		F	P					
Save to User				User-Presentation		~XX424	31		F	P				
				User-Bright		~XX424	32		F	P				
				User-Super Bright (Depends on model)		~XX424	30		F	P				
				User-Cinema		~XX424	33		F	P				
				User-HDR		~XX424	26		F	P				
				User-sRGB		~XX424	34		F	P				
				User-DICOM SIM.		~XX424	35		F	P				
				User-Blending		~XX424	36		F	P				
				User-3D		~XX424	6		F	P				
Apply to User				User-2D High Speed		~XX424	37		F	P				
				User-Presentation		~XX20	31		F	P	~XX123	1	F	O k 31
				User-Bright		~XX20	32		F	P	~XX123	1	F	O k 32
				User-Super Bright (Depends on model)		~XX20	30		F	P	~XX123	1	F	O k 30
				User-Cinema		~XX20	33		F	P	~XX123	1	F	O k 33
				User-HDR		~XX20	26		F	P	~XX123	1	F	O k 26
				User-sRGB		~XX20	34		F	P	~XX123	1	F	O k 34
				User-DICOM SIM.		~XX20	35		F	P	~XX123	1	F	O k 35
				User-Blending		~XX20	36		F	P	~XX123	1	F	O k 36
Reset				User-3D		~XX20	6		F	P	~XX123	1	F	O k 6
				User-2D High Speed		~XX20	37		F	P	~XX123	1	F	O k 37
						~XX509	1		F	P				

Note: Some commands are not supported, it's depends on models

Main Menu: Display

Level 2	Level 3	Level 4	Level 5	Level 6	Option / Value	Step	Write Command					Read Command									
							Command			Response		Command		Response							
							CMD	space	Set Para	Fail	Pass	CMD	space	CMD Value	Fail	Pass					
Aspect Ratio					Auto		~XX60		7		F	P	~XX127	1		F	O	k	7		
					4:3		~XX60		1		F	P	~XX127	1		F	O	k	1		
					16:9		~XX60		2		F	P	~XX127	1		F	O	k	2		
					16:10		~XX60		3		F	P	~XX127	1		F	O	k	3		
					LBX		~XX60		5		F	P	~XX127	1		F	O	k	5		
					Native		~XX60		6		F	P	~XX127	1		F	O	k	6		
Digital Zoom	Proportional				Off		~XX364		0		F	P									
					On		~XX364		1		F	P									
	Horizontal				50%-400%	1	~XX504		50~400		F	P									
	Vertical				50%-400%	1	~XX505		50~400		F	P									
	Horizontal Shift				0-100	1	~XX365		0~100		F	P									
	Vertical Shift				0-100	1	~XX366		0~100		F	P									
Image Shift	Reset						~XX364		9		F	P									
	H. Position				0-100	1	~XX63		0~100		F	P									
	V. Position				0-100	1	~XX64		0~100		F	P									
Geometric Correction	Warp Control				Basic		~XX142		1		F	P									
					Advanced		~XX142		5		F	P									
					AP		~XX142		2		F	P									
Basic Warp	Keystone	Horizontal			0-40	1	~XX65		0~40		F	P	~XX543	4		F	O	k	0~40		
		Vertical			0-40	1	~XX66		0~40		F	P	~XX543	3		F	O	k	0~40		
	Pincushion	Horizontal			0-100	1	~XX300		0~100		F	P	~XX543	6		F	O	k	0~100		
		Vertical			0-100	1	~XX301		0~100		F	P	~XX543	5		F	O	k	0~100		
	4-Corner	Top Left (icon)				right +1	1	~XX59		1		F	P								
						left +1		~XX59		2		F	P								
						up + 1		~XX59		3		F	P								
						down +1		~XX59		4		F	P								
		Top Right (icon)				right +1	1	~XX59		5		F	P								
						left +1		~XX59		6		F	P								
						up + 1		~XX59		7		F	P								
						down +1		~XX59		8		F	P								
		Bottom Left (icon)				right +1	1	~XX59		9		F	P								
						left +1		~XX59		10		F	P								
						up + 1		~XX59		11		F	P								
						down +1		~XX59		12		F	P								
	Bottom Right (icon)				right +1	1	~XX59		13		F	P									
					left +1		~XX59		14		F	P									
					up + 1		~XX59		15		F	P									
					down +1		~XX59		16		F	P									
Advanced Warp	Grid Color				Green		~XX143		1		F	P									
					Magenta		~XX143		2		F	P									
					Red		~XX143		3		F	P									
					Cyan		~XX143		4		F	P									
	Grid Background				Black		~XX145		1		F	P									
					Transparent		~XX145		2		F	P									
	Warp Setting	Grid Points				2x2		~XX144		1		F	P								
						3x3		~XX144		2		F	P								
						5x5		~XX144		3		F	P								
						9x9		~XX144		4		F	P								
						17x17		~XX144		5		F	P								
		Warp Inner				Off		~XX146		0		F	P								
						On		~XX146		1		F	P								
	Warp Sharpness				0~9	1	~XX148		0~9		F	P									
Blend Setting				Blend Width																	

Note: Some commands are not supported, it's depends on models

Main Menu: Display

Level 2	Level 3	Level 4	Level 5	Level 6	Option / Value	Step	Write Command					Read Command					
							Command			Response		Command		Response			
							CMD	space:	Set Para	Fail	Pass	CMD	space:	CMD Value	Fail	Pass	
			Overlap Grid Number		4		~XX169	1		F	P						
					6		~XX169	2		F	P						
					8		~XX169	3		F	P						
					10		~XX169	4		F	P						
					12		~XX169	5		F	P						
			Gamma		1.8		~XX170	1		F	P						
					1.9		~XX170	2		F	P						
					2		~XX170	3		F	P						
					2.1		~XX170	4		F	P						
					2.2		~XX170	5		F	P						
					2.3		~XX170	6		F	P						
					2.4		~XX170	7		F	P						
		Black Level	Area		Bottom												
					Top												
			Enable		Off		~XX166	4/6		F	P						
					On		~XX166	3/5		F	P						
			Edit Area														
			Add Point														
			Remove Point														
			Brightness	Brightness		RGB + 1	~XX263	1/2/3/4		F	P						
				Red	0-255	1	~XX281~XX2nnn			F	P	~XX272~XX 1	F	O	k	nnn	
				Green		1	~XX282~XX2nnn			F	P	~XX272~XX 2	F	O	k	nnn	
				Blue	0-255	1	~XX283~XX2nnn			F	P	~XX272~XX 3	F	O	k	nnn	
				Exit													
			Red		0-255												
			Green		0-255												
			Blue		0-255												
			Reset	Bottom			~XX167	3		F	P						
				Top			~XX167	5		F	P						
				All			~XX167	1		F	P						
		Memory	Save Memory			Memory 1 - Memory 5	~XX141	1~5		F	P						
			Apply Memory			Memory 1 - Memory 5	~XX147	1~5		F	P	~XX137	1	F	O	k	1~5
			Clear Memory				~XX174	1		F	P						
		Reset					~XX561	1		F	P						
Edge Mask					0-10	1	~XX61	0~10		F	P						
Freeze Screen					Unfreeze		~XX04	0		F	P						
					Freeze		~XX04	1		F	P						

Note: Some commands are not supported, it's depends on models

Main Menu: Display

Level 2	Level 3	Level 4	Level 5	Level 6	Option / Value	Step	Write Command					Read Command							
							Command			Response		Command		Response					
							CMD	space:	Set Para	Fail	Pass	CMD	space:	CMD Value	Fail	Pass			
Test Pattern					Off		~XX195	0		F	P								
					Green Grid		~XX195	3		F	P								
					Magenta Grid		~XX195	4		F	P								
					White Grid		~XX195	1		F	P								
					White		~XX195	2		F	P								
					Black		~XX195	11		F	P								
					Red		~XX195	5		F	P								
					Green		~XX195	6		F	P								
					Blue		~XX195	7		F	P								
					Yellow		~XX195	8		F	P								
					Magenta		~XX195	9		F	P								
					Cyan		~XX195	10		F	P								
					ANSI Contrast 4x4		~XX195	14		F	P								
					Color bar		~XX195	13		F	P								
					Full screen		~XX195	15		F	P								
PIP/PBP	Screen				Off		~XX302	0		F	P								
					PIP		~XX302	1		F	P								
					PBP		~XX302	2		F	P								
	Main Source					[no Signal]													
						VGA		~XX12	5		F	P	~XX121	1	F	O	k	0	
						HDMI1		~XX12	1		F	P	~XX121	1	F	O	k	2	
						HDMI2		~XX12	15		F	P	~XX121	1	F	O	k	7	
						DVI-D		~XX12	2		F	P	~XX121	1	F	O	k	8	
						Display Port		~XX12	20		F	P	~XX121	1	F	O	k	1	
						3G-SDI		~XX12	22		F	P	~XX121	1	F	O	k	15	
						HDBaseT		~XX12	21		F	P	~XX121	1	F	O	k	18	
	Sub Source					[no Signal]							~XX121	1	F	O	k	16	
						VGA		~XX305	2		F	P	~XX131	1	F	O	k	0	
						HDMI1		~XX305	1		F	P	~XX131	1	F	O	k	2	
						HDMI2		~XX305	4		F	P	~XX131	1	F	O	k	7	
						DVI-D		~XX305	9		F	P	~XX131	1	F	O	k	8	
						Display Port		~XX305	17		F	P	~XX131	1	F	O	k	1	
						3G-SDI		~XX305	11		F	P	~XX131	1	F	O	k	15	
					HDBaseT		~XX305	10		F	P	~XX131	1	F	O	k	17		
	Swap						~XX306	1		F	P	~XX131	1	F	O	k	16		
	Size					Small		~XX304	3		F	P							
						Medium		~XX304	2		F	P							
						Large		~XX304	1		F	P							
	Location					PBP, Main Left		~XX303	5		F	P							
						PBP, Main Top		~XX303	6		F	P							
						PBP, Main Right		~XX303	7		F	P							
						PBP, Main Bottom		~XX303	8		F	P							
						PIP, Bottom Right		~XX303	4		F	P							
						PIP, Bottom Left		~XX303	3		F	P							
						PIP, Top Left		~XX303	1		F	P							
					PIP, Top Right		~XX303	2		F	P								
Reset						~XX173	1		F	P									

Note: Some commands are not supported, it's depends on models

Main Menu:Input Settings

Level 2	Level 3	Level 4	Option / Value	Step	Write Command					Read Command											
					Command			Response		Command		Response									
					CMD	spat	Set Para	Fail	Pass	CMD	spat	CMD Value	Fail	Pass							
Auto Source			Off		~XX563		0		F	P											
			On		~XX563		1		F	P											
Active Inputs			VGA		~XX408		5		F	P											
			HDMI1		~XX408		1		F	P											
			HDMI2		~XX408		15		F	P											
			DVI-D		~XX408		2		F	P											
			Display Port		~XX408		20		F	P											
			3G-SDI		~XX408		22		F	P											
			HDBaseT		~XX408		21		F	P											
Latency Adjustment			Normal		~XX220		0		F	P											
			2D Ultra		~XX220		1		F	P											
Backup Input	Auto Switch		Off		~XX264		0		F	P											
			On		~XX264		1		F	P											
	Current Signal		(read only)																		
	First Input		HDMI1		~XX265		7		F	P											
			HDMI2		~XX265		8		F	P											
			HDBaseT		~XX265		16		F	P											
			Display Port		~XX265		15		F	P											
	Second Input		HDMI1		~XX266		7		F	P											
			HDMI2		~XX266		8		F	P											
			HDBaseT		~XX266		16		F	P											
			Display Port		~XX266		15		F	P											
	Backup Input Status		Active/Inactive (read only)																		
	Backup Input Change		Changed/No Change (read only)																		
	Backup Input Info.	Current Signal	(read only)																		
		Backup Input Status	Active/Inactive (read only)																		
		Backup Input Change	Changed/No Change (read only)																		
		First Input	By First Input (read only)																		
		Resolution	(read only)																		
	Horz Refresh	(read only)																			
	Color Space	(read only)																			

Note: Some commands are not supported, it's depends on models

Main Menu:Input Settings

Level 2	Level 3	Level 4	Option / Value	Step	Write Command				Read Command					
					Command		Response		Command		Response			
					CMD	spat	Set	Para	Fail	Pass	CMD	spat	CMD Value	Fail
		HDR	Yes/No (read only)											
		Second Input	By Second Input (read only)											
		Resolution	(read only)											
		Horz Refresh	(read only)											
		Color Space	(read only)											
		HDR	Yes/No (read only)											
VGA	Phase		0-100	1	~XX74		0~100	F	P					
	Resolution		(read only)											
HDMI	Output		HDMI 1		~XX309	5		F	P					
			HDMI 2		~XX309	6		F	P					
	HDMI 1 EDID		1.4		~XX236	1		F	P					
			2		~XX236	2		F	P					
	HDMI 2 EDID		1.4		~XX237	1		F	P					
			2		~XX237	2		F	P					
HDBaseT	EDID		1.4		~XX238	1		F	P					
			2		~XX238	2		F	P					
Reset					~XX178	1		F	P					

Command		Read Command			
CMD	spat	CMD Value	Fail	Response	
~XX276	1		F	O k	a=7 HDMI1 a=8 HDMI2 a=16 HDBaseT a=15 Display Port

Note: Some commands are not supported, it's depends on models

Main Menu:Device Setup

Level 2	Level 3	Level 4	Level 5	Option / Value	Step	Write Command					Read Command											
						Command			Response		Command		Response									
						CMD	space	Set Para.	Fail	Pass	CMD	space	CMD Value	Fail	Pass							
Language				English		~XX70		1		F	P											
				Deutsch		~XX70		2		F	P											
				Français		~XX70		3		F	P											
				Italiano		~XX70		4		F	P											
				Español		~XX70		5		F	P											
				Português		~XX70		6		F	P											
				Polski		~XX70		7		F	P											
				Nederlands		~XX70		8		F	P											
				Norsk		~XX70		10		F	P											
				繁體中文		~XX70		13		F	P											
				簡體中文		~XX70		14		F	P											
				日本語		~XX70		15		F	P											
				한국어		~XX70		16		F	P											
				Русский		~XX70		17		F	P											
			Magyar		~XX70		18		F	P												
			ไทย		~XX70		21		F	P												
Projection	Ceiling			Auto		~XX523		3		F	P											
				On		~XX523		2		F	P											
				Off		~XX523		1		F	P											
	Rear			Off		~XX524		0		F	P											
				On		~XX524		1		F	P											
Lens Settings	Focus			+ (icon)		~XX308		1		F	P											
				- (icon)		~XX308		2		F	P											
	Zoom			+ (icon)		~XX307		1		F	P											
				- (icon)		~XX307		2		F	P											
	Lens Shift			Up (icon)		~XX84		3		F	P											
				Down (icon)		~XX84		4		F	P											
				Left (icon)		~XX84		5		F	P											
				Right (icon)		~XX84		6		F	P											
	Lens Memory		Save Memory		Memory 1 - Memory 5		~XX360		1~5		F	P										
			Apply Memory		Memory 1 - Memory 5		~XX359		1~5		F	P										
			Clear Memory				~XX361		1		F	P										
	Lens Calibration					~XX525		1		F	P											
	Lens Lock			Lock		~XX349		1		F	P											
				Unlock		~XX349		2		F	P											
Reset					~XX175		1		F	P												
Active Image Setup	Active Focus					~XX308		3		F	P											
	Active Color Uniformity	Calibration				~XX261		1		F	P											
		Target Selection		Pop-up pattern			~XX261		9		F	P										
	Reset																					
Schedule	Date and Time			----/--/--																		
	Schedule Mode			Off		~XX284		0		F	P											
				On		~XX284		1		F	P											
	View Today			Monday /																		
				Tuesday /																		
			Wednesday /																			
		Thursday /																				
		Friday /																				
		Saturday /																				
		Sunday																				
Monday / Tuesday /	Schedule Enable			Off		~XX284		0 ~n		F	P											
				On		~XX284		1 ~n		F	P											

Note: Some commands are not supported, it's depends on models

Main Menu:Device Setup

Level 2	Level 3	Level 4	Level 5	Option / Value	Step	Write Command				Read Command				
						Command		Response		Command		Response		
						CMD	space	Set	Para.	Fail	Pass	CMD	space	CMD
	Wednesday / Thursday / Friday / Saturday / Sunday	Event 01-16	Time	00:00 ~ 23:59	~XX471	dhhmmnnaabb	F	P						
				Function	Off	~XX471	dhhmmnnaabb	F					P	
					Power Settings	~XX471	dhhmmnnaabb	F					P	
					Input Source	~XX471	dhhmmnnaabb	F					P	
					Light Source Mode	~XX471	dhhmmnnaabb	F					P	
					Shutter	~XX471	dhhmmnnaabb	F					P	
				Event	Off	~XX471	dhhmmnnaabb	F					P	
					(Function = Power Settings)	Power On	~XX471	dhhmmnnaabb					F	P
					Eco	~XX471	dhhmmnnaabb	F					P	
					Active	~XX471	dhhmmnnaabb	F					P	
			Communication		~XX471	dhhmmnnaabb	F	P						
			(Function = Input Source)	VGA	~XX471	dhhmmnnaabb	F	P						
				HDMI1	~XX471	dhhmmnnaabb	F	P						
				HDMI2	~XX471	dhhmmnnaabb	F	P						
				DVI-D	~XX471	dhhmmnnaabb	F	P						
				Display Port	~XX471	dhhmmnnaabb	F	P						
				3G-SDI	~XX471	dhhmmnnaabb	F	P						
				HDBaseT	~XX471	dhhmmnnaabb	F	P						
				(Function = Light Source Mode)	Normal Mode	~XX471	dhhmmnnaabb	F					P	
				Eco Mode	~XX471	dhhmmnnaabb	F	P						
				Custom Brightness	~XX471	dhhmmnnaabb	F	P						
			(Function = Shutter)	Shutter On	~XX471	dhhmmnnaabb	F	P						
				Shutter Off	~XX471	dhhmmnnaabb	F	P						
			Reset		~XX472	n ~nn	F	P						
			Copy Events To	Monday	~XX473	1 ~n	F	P						
				Tuesday	~XX473	2 ~n	F	P						
				Wednesday	~XX473	3 ~n	F	P						
				Thursday	~XX473	4 ~n	F	P						
				Friday	~XX473	5 ~n	F	P						
				Saturday	~XX473	6 ~n	F	P						
				Sunday	~XX473	7 ~n	F	P						
			Reset the Day		~XX471	9 ~n	F	P						
			Reset Schedule		~XX284	9	F	P						
			Date and Time	Clock Mode	Use NTP Server	~XX474	1	F					P	
					Manual	~XX474	3	F					P	
				Date	2000 ~ 2037 (Year)	~XX475	nnnn	F					P	
					01 ~ 12 (Month)	~XX476	nn	F					P	
					01 ~ 31 (Day)	~XX477	nn	F					P	
				Time	00 ~ 23 (Hour)	~XX478	nn	F					P	
					00 ~ 59 (Minute)	~XX479	nn	F					P	
				Daylight Saving Time	Off	~XX480	0	F					P	
					On	~XX480	1	F					P	
				NTP Server	time.google.com	~XX481	1	F					P	
					asia.pool.ntp.org	~XX481	2	F					P	
					europa.pool.ntp.org	~XX481	3	F					P	
north-america.pool.ntp.org	~XX481	4			F	P								
Time Zone	UTC+14:00	~XX482		1	F	P								
	UTC+13:00	~XX482		2	F	P								
	UTC+12:45	~XX482		3	F	P								
	UTC+12:00	~XX482		4	F	P								
	UTC+11:00	~XX482		5	F	P								
	UTC+10:30	~XX482		6	F	P								
	UTC+10:00	~XX482		7	F	P								
	UTC+09:30	~XX482		8	F	P								
	UTC+09:00	~XX482		9	F	P								
	UTC+08:45	~XX482		10	F	P								
	UTC+08:00	~XX482		11	F	P								

Note: Some commands are not supported, it's depends on models

Main Menu:Device Setup

Level 2	Level 3	Level 4	Level 5	Option / Value	Step	Write Command				Read Command					
						Command			Response	Command		Response			
						CMD	space	Set Para.	Fail	Pass	CMD	space	CMD Value	Fail	Pass
				UTC+07:00		~XX482		12	F	P					
				UTC+06:30		~XX482		13	F	P					
				UTC+06:00		~XX482		14	F	P					
				UTC+05:45		~XX482		15	F	P					
				UTC+05:30		~XX482		16	F	P					
				UTC+05:00		~XX482		17	F	P					
				UTC+04:30		~XX482		18	F	P					
				UTC+04:00		~XX482		19	F	P					
				UTC+03:30		~XX482		20	F	P					
				UTC+03:00		~XX482		21	F	P					
				UTC+02:00		~XX482		22	F	P					
				UTC+01:00		~XX482		23	F	P					
				UTC+00:00		~XX482		24	F	P					
				UTC-01:00		~XX482		25	F	P					
				UTC-02:00		~XX482		26	F	P					
				UTC-03:00		~XX482		27	F	P					
				UTC-03:30		~XX482		28	F	P					
				UTC-04:00		~XX482		29	F	P					
				UTC-05:00		~XX482		30	F	P					
				UTC-06:00		~XX482		31	F	P					
				UTC-07:00		~XX482		32	F	P					
				UTC-08:00		~XX482		33	F	P					
				UTC-09:00		~XX482		34	F	P					
				UTC-09:30		~XX482		35	F	P					
				UTC-10:00		~XX482		36	F	P					
				UTC-11:00		~XX482		37	F	P					
				UTC-12:00		~XX482		38	F	P					
	Update Interval			Hourly		~XX483		1	F	P					
				Daily		~XX483		3	F	P					
	Apply					~XX484		1	F	P					
Power Settings	Power Mode (Standby)			Eco		~XX114		0	F	P	~XX150	16	F	O k 0	
				Active		~XX114		1	F	P	~XX150	16	F	O k 1	
				Communication		~XX114		3	F	P	~XX150	16	F	O k 3	
	Signal Power On			Off		~XX113		0	F	P					
				On		~XX113		1	F	P					
	Auto Power Off			0-180 m	5m	~XX106		0~180	F	P					
	Sleep Timer			0-16 h	0.5h	~XX107		0~16	F	P					
	12V Trigger			Off		~XX192		0	F	P					
				On		~XX192		1	F	P					
	Reset					~XX177		1	F	P					
Light Source Settings	Light Source Mode			Normal		~XX110		1	F	P					
				Eco Mode		~XX110		2	F	P					
				Custom Power		~XX110		9	F	P					
	Custom Brightness	Brightness Level		30%-100%	1%	~XX326		30~100	F	P					
		Constant Brightness		Off		~XX522		0	F	P	~XX242	1	F	O k 0	
				On		~XX522		1	F	P	~XX242	1	F	O k 1	
Shutter	Fade-In			0.5 -5s	0.5s	~XX267		1~10	F	P					
	Fade-Out			0.5 -5s	0.5s	~XX268		1~10	F	P					
	Startup			Shutter Off		~XX269		0	F	P					
				Shutter On		~XX269		1	F	P					
Security	Security			Off		~XX78		0 ~nnnn	F	P					
				On		~XX78		1 ~nnnn	F	P					
	Security Timer	Month		0-35		~XX537		00~35	F	P	~XX544	1	F	O k 00~35	
		Day		0-29		~XX538		00~29	F	P	~XX544	2	F	O k 00~29	
		Hour		0-23		~XX539		00~23	F	P	~XX544	3	F	O k 00~23	
						~XX77		MMDDHH	F	P					
	Change Password					~XX406		nnnn ~nnnn	F	P					
On Screen Display	Menu Location			Top Left		~XX72		1	F	P					
				Top Right		~XX72		2	F	P					

Note: Some commands are not supported, it's depends on models

Main Menu:Device Setup

Level 2	Level 3	Level 4	Level 5	Option / Value	Step	Write Command				Read Command				
						Command		Response		Command		Response		
						CMD	space Set Para.	Fail	Pass	CMD	space CMD Value	Fail	Pass	
				Center		~XX72	3	F	P					
				Bottom Left		~XX72	4	F	P					
				Bottom Right		~XX72	5	F	P					
	Menu Transparency			0-9		~XX526	0~9	F	P					
	Menu Timer			Off		~XX515	0	F	P					
				5s		~XX515	1	F	P					
				10s		~XX515	3	F	P					
				15s		~XX515	4	F	P					
				30s		~XX515	5	F	P					
				60s		~XX515	6	F	P					
	Information Hide			Off		~XX102	0	F	P					
				On		~XX102	1	F	P					
	Background			Blue		~XX104	1	F	P					
				Black		~XX104	0	F	P					
				White		~XX104	5	F	P					
				Logo		~XX104	7	F	P					
				Default Logo		~XX82	1	F	P					
Logo Setup	Change Logo			Neutral		~XX82	3	F	P					
				User Logo		~XX82	4	F	P					
				Captured Logo		~XX82	2	F	P					
						~XX83	1	F	P					
		Logo Capture					~XX407	1	F	P				
	Delete Logo	Captured Logo				~XX407	2	F	P					
		User Logo				~XX362	0	F	P					
Backlight	Keypad			Off		~XX362	1	F	P					
				On		~XX362	3	F	P					
	Power Key			Off		~XX362	3	F	P					
				On		~XX362	4	F	P					
High Altitude			Off		~XX101	0	F	P						
			On		~XX101	1	F	P						
User Data	Save All Settings			Memory 1 - Memory 5		~XX258	1~5	F	P					
	Load All Settings			Memory 1 - Memory 5		~XX259	1~5	F	P					
System Update (FOTA)	Auto			Off		~XX168	0	F	P					
				On		~XX168	1	F	P					
	Auto Download			Off		~XX168	3	F	P					
				On		~XX168	4	F	P					
	Update					~XX168	9	F	P					
Reset	Reset OSD					~XX546	1	F	P					
	Reset to Default					~XX112	1	F	P					
	Reset Selective	Image					~XX509	1	F	P				
		Display					~XX173	1	F	P				
		Input					~XX178	1	F	P				
Communication						~XX176	1	F	P					
		Setup				~XX179	1	F	P					
						~XX150	22	F	O	k	0			
						~XX150	22	F	O	k	1			

Note: Some commands are not supported, it's depends on models

Main Menu: Communication

Level 2	Level 3	Level 4	Option / Value	Step	Write Command			
					Command		Response	
					CMD	Set Para.	Fail	Pass
Projector ID			0-99		~XX79	00~99	F	P
Remote Setup	Remote Code		0-99		~XX350	00~99	F	P
	Quick Switch Code		Off		~XX314	0	F	P
			1~9		~XX314	0~9	F	P
	IR Function	Front	Off		~XX11	4	F	P
			On		~XX11	5	F	P
		Top	Off		~XX11	6	F	P
			On		~XX11	7	F	P
		HDBaseT	Off		~XX11	10	F	P
			On		~XX11	9	F	P
	User 1		Freeze Screen		~XX117	1	F	P
			Blank Screen		~XX117	2	F	P
			PIP/PBP		~XX117	3	F	P
			Aspect Ratio		~XX117	4	F	P
			Information Hide		~XX117	5	F	P
			Network setup		~XX117	6	F	P
			Projector ID		~XX117	7	F	P
			Color Matching		~XX117	8	F	P
			Reset Selective		~XX117	9	F	P
	User 2		Freeze Screen		~XX118	1	F	P
			Blank Screen		~XX118	2	F	P
			PIP/PBP		~XX118	3	F	P
			Aspect Ratio		~XX118	4	F	P
			Information Hide		~XX118	5	F	P
		Network setup		~XX118	6	F	P	
		Projector ID		~XX118	7	F	P	
		Color Matching		~XX118	8	F	P	
		Reset Selective		~XX118	9	F	P	
Network Setup	LAN Interface		RJ-45		~XX460	1	F	P
			HDBaseT		~XX460	2	F	P
	MAC Address		(read only)					
	Network Status		(read only) Connected					
			(read only) Disconnected					
	DHCP		Off		~XX461	0	F	P
			On		~XX461	1	F	P
	IP Address		---.---.---.---					
	Subnet Mask		---.---.---.---					
	Gateway		---.---.---.---					
	DNS		---.---.---.---					
Apply				~XX462	9	F	P	
Network Reset				~XX462	1	F	P	
Email Notification	Email 1							
			Email 1 Address (read only)					
	Email 2							

Read Command				
Command		Response		
CMD	Set Para.	CMD Value	Fail	Pass
~XX558	1		F	O k 00~99
~XX138	1		F	O k 0~9
~XX138	3		F	O k 0
~XX138	3		F	O k 0~9
~XX542	1		F	O k 0
~XX542	1		F	O k 1
~XX542	2		F	O k 0
~XX542	2		F	O k 1
~XX542	3		F	O k 0
~XX542	3		F	O k 1
~XX555	1		F	O k nn:nn:nn:nn:nn
~XX87	1		F	O k 1
~XX87	1		F	O k 0
~XX150	17		F	O k 0
~XX150	17		F	O k 1
~XX87	3		F	O k nn:nn:nn:nn:nn
~XX443	1		F	O k n@nnnn.nnnn.nnnn

Note: Some commands are not supported, it's depends on models

Main Menu: Communication

Level 2	Level 3	Level 4	Option / Value	Step	Write Command			Read Command					
					Command		Response		Command	Response			
					CMD	Set Para.	Fail	Pass	CMD	Pass			
			Email 1 Address (read only)										
			Event										
			Fan Error		~XX463	2/1	F	P					
			Power On/Off		~XX463	4/3	F	P					
			Video Loss		~XX463	6/5	F	P					
			Laser		~XX463	8/7	F	P					
			Reset		~XX464	1	F	P					
Control	Crestron		Off		~XX454	0	F	P					
			On		~XX454	1	F	P					
		IP Address	-----		~XX465	1 ~nnn.nnn.nnn.nnn	F	P					
		IPID	2-255		~XX466	1 ~nnn	F	P					
		Port	0~65535		~XX467	1 ~nnnnn	F	P					
		Crestron Setup Apply			~XX454	9	F	P					
	PJ Link		Off		~XX456	0	F	P					
			On		~XX456	1	F	P					
	Authentication		Off		~XX468	0	F	P					
			On		~XX468	1	F	P					
		Password	(read only)		~XX470	nn...n (20 characters)	F	P					
		Service	-----		~XX469	1 ~nnn.nnn.nnn.nnn	F	P					
		PJ Link Setup Apply			~XX456	9	F	P					
	Extron		Off		~XX455	0	F	P					
			On		~XX455	1	F	P					
	AMX		Off		~XX457	0	F	P					
			On		~XX457	1	F	P					
	Telnet		Off		~XX458	0	F	P					
			On		~XX458	1	F	P					
	HTTP		Off		~XX459	0	F	P					
		On		~XX459	1	F	P						
	Reset			~XX181	1	F	P						
Baud Rate	Serial Port In		1200						~XX153	1	F	O k 1200	
			2400						~XX153	1	F	O k 2400	
			4800						~XX153	1	F	O k 4800	
			9600						~XX153	1	F	O k 9600	
			19200						~XX153	1	F	O k 19200	
			38400						~XX153	1	F	O k 38400	
			57600						~XX153	1	F	O k 57600	
			115200						~XX153	1	F	O k 115200	
		Serial Port Out		1200							~XX153	3	F
			2400							~XX153	3	F	O k 2400
			4800							~XX153	3	F	O k 4800
			9600							~XX153	3	F	O k 9600
			19200							~XX153	3	F	O k 19200
			38400							~XX153	3	F	O k 38400
			57600							~XX153	3	F	O k 57600
			115200							~XX153	3	F	O k 115200
	Reset					~XX176	1	F	P				

Note: Some commands are not supported, it's depends on models

Main Menu: Information

Level 2	Level 3	Level 4	Level 5	Option / Value	Step	Write Command			
						Command		Response	
						CMD	space Set Para.	Fail	Pass
Device	Regulatory								
	Serial Number								
	Projection Hours								
System Status	Standby Mode								
	Light Source Mode								
	Light Source Hours								
	Total Hours								
	Normal								
	Eco Mode								
	Custom Power								
	Temperature								
	AC Voltage								
Communication	Projector ID					~XX79	00~99	F	P
	Remote Code					~XX350	00~99	F	P
Firmware Version	Main Version								

Read Command				
Command			Response	
CMD	space	CMD Value	Fail	Pass
~XX151		3	F	O k nnnnnnnn
~XX353		1	F	O k nnnnnnnnnnnnnn
~XX150		21	F	O k nnnnn (nnnnn= hour digits)
~XX108		1	F	O k nnnnn (nnnnn= hour digits)
~XX108		1	F	O k nnnnn (nnnnn= hour digits)
~XX108		3	F	O k nnnnn (nnnnn= hour digits)
~XX108		4	F	O k nnnnn (nnnnn= hour digits)
~XX108		7	F	O k nnnnn (nnnnn= hour digits)
~XX150		18	F	O k nnn..nn (e.g. Ok48)
~XX558		1	F	O k 00~99
~XX138		1	F	O k 0~9
~XX122		1	F	O k nnnnnnn (FW)+

Note: Some commands are not supported, it's depends on models

Other RS232

Level 1	Level 2	Level 3	Write Command			Read Command				
			Command		Response	Command		Response		
			CMD	space Set Para.	Fail	CMD	space CMD Value	Fail	Pass	
Other Items										
Power Off			~XX00	0		F	~XX124	1	F	O k 0
Power On			~XX00	1		F	~XX124	1	F	O k 1
Re-Sync			~XX01	1		F				
AV Mute	Off		~XX02	0		F	~XX355	1	F	O k 0
	On		~XX02	1		F	~XX355	1	F	O k 1
Freeze	Unfreeze		~XX04	0		F				
	Freeze		~XX04	1		F				
3D Sync Out	To Emitter		~XX232	0		F				
	To Next Projector		~XX232	1		F				
3D Frame Delay	1~200		~XX233	1~nnn		F				
Output 3D state	2D						~XX130	1	F	O k 0
	3D						~XX130	1	F	O k 1
System Auto Send	Standby Mode									I N F O 0
	Warming up									I N F O 1
	Cooling Down									I N F O 2
	Out of Range									I N F O 3
	lightsource Fail (LED Fail)									I N F O 4
	Thermal Switch Error									I N F O 5
	Fan Lock									I N F O 6
	Over Temperature									I N F O 7
	LightSource Hours Running Out									I N F O 8
	Cover Open									I N F O 9
	lightsource Ignite Fail									I N F O 10
	Format Board Power On Fail									I N F O 11
	Color Wheel Unexpected Stop									I N F O 12
	Over Temperature									I N F O 13
	FAN 1 Lock									I N F O 14
	FAN 2 Lock									I N F O 15
	FAN 3 Lock									I N F O 16
	FAN 4 Lock									I N F O 17
	FAN 5 Lock									I N F O 18
	LAN fail then restart									I N F O 19
	LD lower than 60%									I N F O 20
	LD NTC (1) Over Temperature									I N F O 21
	LD NTC (2) Over Temperature									I N F O 22
	High Ambient Temperature									I N F O 23
	System Ready									I N F O 24
										I N F O 25
	FAN 6 Lock									I N F O 26
	FAN 7 Lock									I N F O 27
	FAN 8 Lock									I N F O 28
	FAN 9 Lock									I N F O 29
	FAN 10 Lock									I N F O 30
	FAN 11 Lock									I N F O 31
	FAN 12 Lock									I N F O 32
	FAN 13 Lock									I N F O 33
FAN 14 Lock									I N F O 34	
System Temperature Level	Green/Normal						~XX155	1	F	O k 1
	Orange/Notice						~XX155	1	F	O k 2
Fan Status Level	Red/Warning. About to trigger shutdown						~XX155	1	F	O k 3
	Green/Normal						~XX159	1	F	O k 1
	Orange/Notice						~XX159	1	F	O k 2

Note: Some commands are not supported, it's depends on models

Other RS232

Level 1	Level 2	Level 3	Write Command			Read Command			
			Command		Response	Command		Response	
			CMD	space Set Para.	Fail	CMD	space CMD Value	Fail Pass	
	Red/Warning. About to trigger shutdown								
Device Type	Projector					~XX159 1	F	O k 3	
Model Name	Optoma SVGA					~XX149 1	F	O k 1	
	Optoma XGA					~XX151 1	F	O k 1	
	Optoma WXGA					~XX151 1	F	O k 2	
	Optoma 1080P					~XX151 1	F	O k 3	
	Optoma WUXGA					~XX151 1	F	O k 4	
	Optoma UHD					~XX151 1	F	O k 5	
Camera Status						~XX151 1	F	O k 6	
						~XX221 1	F	O k a=0 Camera disconnect a=1 Camera supported	
OSD Lock	On		~XX239	1 ~nnnnnnnn	F	~XX229 1	F	O k 1	
	Off		~XX239	2 ~nnnnnnnn	F	~XX229 1	F	O k 0	
Regulatory Model						~XX151 3	F	O k	
RS232 Version No						~XX152 1	F	O k nnnnnnn (RS232 Version No)	
Software Version						~XX122 1	F	O k nnnnnnn (Software Version)	
LAN FW version						~XX357 1	F	O k nnnnnnn (LAN FW version)	
Fan Speed	Fan 1 Speed	0000~9999				~XX351 1	F	O k 0000~9999	
	Fan 2 Speed	0000~9999				~XX351 2	F	O k 0000~9999	
	Fan 3 Speed	0000~9999				~XX351 3	F	O k 0000~9999	
	Fan 4 Speed	0000~9999				~XX351 4	F	O k 0000~9999	
	Fan 5 Speed	0000~9999				~XX351 5	F	O k 0000~9999	
	Fan 6 Speed	0000~9999				~XX351 6	F	O k 0000~9999	
	Fan 7 Speed	0000~9999				~XX351 7	F	O k 0000~9999	
	Fan 8 Speed	0000~9999				~XX351 8	F	O k 0000~9999	
	Fan 9 Speed	0000~9999				~XX351 9	F	O k 0000~9999	
	Fan 10 Speed	0000~9999				~XX351 10	F	O k 0000~9999	
	Fan 11 Speed	0000~9999				~XX351 11	F	O k 0000~9999	
	Fan 12 Speed	0000~9999				~XX351 12	F	O k 0000~9999	
	Fan 13 Speed	0000~9999				~XX351 13	F	O k 0000~9999	
	Fan 14 Speed	0000~9999				~XX351 10	F	O k 0000~9999	
System Temperature						~XX352 1	F	O k 0000~9999	
Information	Info String					~XX150 1	F	O k abbbbbbccdddee (Note*1)	
	Native Resolution					~XX150 2	F	O k nnn..nn (e.g. Ok1920x1080)	
	Main Source					~XX150 3	F	O k nnn..nn (e.g. OkHDMI)	
	- Resolution					~XX150 4	F	O k nnn..nn (e.g.Ok1920x1080)	
	- Signal Format					~XX150 5	F	O k nnn..nn	
	- Pixel Clock					~XX150 6	F	O k nnn..nn	
	- Horz Refresh					~XX150 7	F	O k nnn..nn	
	- Vert Refresh					~XX150 8	F	O k nnn..nn	
	Sub Source					~XX150 9	F	O k nnn..nn	
	- Resolution					~XX150 10	F	O k nnn..nn (e.g. Ok1920x1080)	
	- Signal Format					~XX150 11	F	O k nnn..nn (e.g. OkHDMI)	
	- Pixel Clock					~XX150 12	F	O k nnn..nn	
	- Horz Refresh					~XX150 13	F	O k nnn..nn	
	- Vert Refresh					~XX150 14	F	O k nnn..nn	
	Light Source Mode					~XX150 15	F	O k nnn..nn	
	Standby Power Mode	Active				~XX150 16	F	O k 1	
		Eco.				~XX150 16	F	O k 0	
		Communication				~XX150 16	F	O k 3	
	DHCP	Off				~XX150 17	F	O k 0	
		On				~XX150 17	F	O k 1	
	System Temperature					~XX150 18	F	O k nnn..nn (e.g. Ok48)	
	Refresh rate					~XX150 19	F	O k nnn..nn (e.g. Ok60Hz)	
Source Lock	On		~XX100	0	F				
	Off		~XX100	1	F				
Display message on the OSD			~XX210	nn...n (50 characters)	F				
Filter Wheel Index			~XX528	0000~9999	F	~XX530 1	F	O k 0000~9999	

Note: Some commands are not supported, it's depends on models

Other RS232

Level 1	Level 2	Level 3	Write Command			Read Command		
			Command		Response	Command		Response
			CMD	space Set Para.	Fail	CMD	space CMD Value	Fail Pass
Phosphor Wheel Index			~XX529	0000~9999	F	~XX531	1	F O k 0000~9999
Remote Control Simulation								
Power			~XX140	1	F			
Power Off			~XX140	2	F			
Up			~XX140	10	F			
Left			~XX140	11	F			
Enter (for projection MENU)			~XX140	12	F			
Right			~XX140	13	F			
Down			~XX140	14	F			
V Keystone +			~XX140	15	F			
V Keystone -			~XX140	16	F			
Brightness			~XX140	19	F			
Menu			~XX140	20	F			
DVI-D			~XX140	22	F			
VGA-1			~XX140	23	F			
AV Mute			~XX140	24	F			
Contrast			~XX140	28	F			
Zoom +			~XX140	32	F			
Zoom -			~XX140	33	F			
Focus +			~XX140	34	F			
Focus -			~XX140	35	F			
Mode			~XX140	36	F			
info			~XX140	40	F			
Re-sync			~XX140	41	F			
HDMI 1			~XX140	42	F			
HDMI 2			~XX140	43	F			
Source			~XX140	47	F			
1			~XX140	51	F			
2			~XX140	52	F			
3			~XX140	53	F			
4			~XX140	54	F			
5			~XX140	55	F			
6			~XX140	56	F			
7			~XX140	57	F			
8			~XX140	58	F			
9			~XX140	59	F			
0			~XX140	60	F			
Gamma			~XX140	61	F			
PIP			~XX140	63	F			
Lens H(left)			~XX140	64	F			
Lens H(Right)			~XX140	65	F			
Lens V(left)			~XX140	66	F			
Lens V(Right)			~XX140	67	F			
H Keystone +			~XX140	68	F			
H Keystone -			~XX140	69	F			
Hot Key (user1)(F1)			~XX140	70	F			
Hot Key (user2)(F2)			~XX140	71	F			
Pattern			~XX140	73	F			
Exit			~XX140	74	F			
Display Port			~XX140	76	F			
Mute			~XX140	77	F			
Return			~XX140	82	F			

Note: Some commands are not supported, it's depends on models