

VP-727 Protocol

History

No	Issue Date	Version	Description	Apply Firmware
1	2006/3/27	1.00		All firmware for VP-727
2	2006/07/21	1.04	Added new functions in red, page 35~ page 37.	For firmware SM106.
3	2007/07/22	1.05	Added new functions in red, function 216-219	For firmware SM1.11
4	2007/08/24	1.07	Added new functions in red, function 220	For firmware SM1.13
5	2008/05/05	1.08	Added new functions in Blue, function 214	For firmware SM1.15

***Notice: Only For VP-727**

VP-727 Protocol

2. Set and get command

Set Command:

Y△Control_Type△Function△Param 1△.....△Param N△CR

※ Reply:

Z△Control_Type△Function△Param 1△.....△Param N△CRDoneCR

Get Command:

Y△Control_Type△Function△CR

※ Reply :

Z△Control_Type△Function△Param 1△.....△Param N△CR

3. Communication Protocol

1: Baud rate: 115200bps

2: Start Bit: 1Bit

3: Data Bit: 8Bit

4: Parity Bit: NA

5: Stop Bit: 1Bit

1. Example

1. "Y△0△45△32△CR" -> set Preview Contrast value as 32
 "Z△0△45△32△CR"
 ">CR" --> command setting success

2. "Y△1△78△CR" -> get current Preview output resolution
 "Z△1△78△2△CR" -> current Preview resolution is 832x624

△ : ASCII Code 0x20

CR : ASCII Code 0xD or 0xA

After set type Command setting, system will respond a string

4. Set commands

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	-	0	-	-	-	-	Power	Power
0	-	1	-	-	-	-	Panel Lock	Panel Lock
0	-	2	-	-	-	-	Take	Take
0	-	3	-	-	-	-	Cut	Cut
0	-	4	-	-	-	-	Fade	Fade
0	-	5	-	-	-	-	Diagonal	Diagonal
0	-	6	-	-	-	-	Wipe	Wipe
0	-	7	-	-	-	-	Circle	Circle
0	-	8	-	-	-	-	Square	Square
0	-	9	-	-	-	-	Corner	Corner
0	-	10	-	-	-	-	Chessboard	Chessboard
0	-	11	-	-	-	-	Preview Picture	Preview Picture
0	-	12	-	-	-	-	Preview Freeze	Preview Freeze

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	-	13	-	-	-	-	Preview Blank	Preview Blank
0	-	14	-	-	-	-	Preview PIP	Preview PIP
0	-	15	-	-	-	-	Program Picture	Program Picture
0	-	16	-	-	-	-	Program Freeze	Program Freeze
0	-	17	-	-	-	-	Program Blank	Program Blank
0	-	18	-	-	-	-	Program PIP	Program PIP
0	-	19	-	-	-	-	Up	Up
0	-	20	-	-	-	-	Down	Down
0	-	21	-	-	-	-	Left	Left
0	-	22	-	-	-	-	Right	Right
0	-	23	-	-	-	-	Menu	Menu
0	-	24	-	-	-	-	Enter	Enter
0	-	25	-	-	-	-	OSD	OSD
0	-	26	-	-	-	-	Program Ch1	Program Ch1

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	-	27	-	-	-	-	Program Ch2	Program Ch2
0	-	28	-	-	-	-	Program Ch3	Program Ch3
0	-	29	-	-	-	-	Program Ch4	Program Ch4
0	-	30	-	-	-	-	Program Ch5	Program Ch5
0	-	31	-	-	-	-	Program Ch6	Program Ch6
0	-	32	-	-	-	-	Program Ch7	Program Ch7
0	-	33	-	-	-	-	Program Ch8	Program Ch8
0	-	34	-	-	-	-	Preview Ch1	Preview Ch1
0	-	35	-	-	-	-	Preview Ch2	Preview Ch2
0	-	36	-	-	-	-	Preview Ch3	Preview Ch3
0	-	37	-	-	-	-	Preview Ch4	Preview Ch4
0	-	38	-	-	-	-	Preview Ch5	Preview Ch5
0	-	39	-	-	-	-	Preview Ch6	Preview Ch6
0	-	40	-	-	-	-	Preview Ch7	Preview Ch7

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	-	41	-	-	-	-	Preview Ch8	Preview Ch8
0	1	42	0: Channel 1 1: Channel 2 2: Channel 3 3: Channel 4 4: Channel 5 5: Channel 6 6: Channel 7 7: Channel 8	-	-	-	Preview Input Source	Preview Input Source
0	1	43	0: RGBHV 1: RGSB(PC) 2: RGSB(PC) 3: ED/HD Component 4: SD Component 5: RGSB(Video) 6: RGSB(Video) 7: Y/C 8: Video	-	-	-	Preview Input Type	Preview Input Type
0	1	44	0: Auto 1: NTSC	-	-	-	Preview Input Video Standard	Preview Input Video Standard

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
			2: PAL 3: PAL-M 4: PAL-N 5: NTSC 4.43 6: SECAM 7: PAL 60					
0	1	45	-32 ~ 32	-	-	-	Preview Calibration Contrast	Preview Calibration Contrast
0	1	46	-32 ~ 32	-	-	-	Preview Calibration Brightness	Preview Calibration Brightness
0	1	47		-	-	-	Preview Calibration H-Position	Preview Calibration H-Position
0	1	48		-	-	-	Preview Calibration V-Position	Preview Calibration V-Position
0	1	49	-32 ~ 32	-	-	-	Preview Calibration Saturation	Preview Calibration Saturation
0	1	50	-50 ~ 50	-	-	-	Preview Calibration Frequency	Preview Calibration Frequency
0	1	51	0 ~ 31	-	-	-	Preview Calibration Phase	Preview Calibration Phase
0	-	52	-	-	-	-	Preview Calibration Auto Gain	Preview Calibration AutoGain

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	-	53	-	-	-	-	Preview Calibration Auto Image	Preview Calibration AutoImage
0	1	54	-32 ~ 32	-	-	-	Preview Calibration Tint	Preview Calibration Tint
0	1	55	-32 ~ 64	-	-	-	Preview Calibration Sharpness	Preview Calibration Sharpness
0	1	56	0 ~ 30	-	-	-	Preview Color ICC R	Preview Color ICC R
0	1	57	0 ~ 30	-	-	-	Preview Color ICC G	Preview Color ICC G
0	1	58	0 ~ 30	-	-	-	Preview Color ICC B	Preview Color ICC B
0	1	59	0 ~ 30	-	-	-	Preview Color ICC Y	Preview Color ICC Y
0	1	60	0 ~ 30	-	-	-	Preview Color Gamma	Preview Color Gamma
0	1	61	-32 ~ 32	-	-	-	Preview Color Temp	Preview Color Color Temp

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	1	62	0: Off 1: 150% 2: 200% 3: 225% 4: 250% 5: 275% 6: 300% 7: 325% 8: 350% 9: 375% 10: 400%	-	-	-	Preview Scale Zoom Ratio	Preview Scale Zoom Ratio
0	1	63	-64 ~ 64	-	-	-	Preview Scale Zoom H-Pan	Preview Scale Zoom H-Pan
0	1	64	-64 ~ 64	-	-	-	Preview Scale Zoom V-Pan	Preview Scale Zoom V-Pan
0	1	65	0: Anamorphic 1: Virtual Wide 2: Letterbox 3: Native 4: 4:3 Output 5: User define	-	-	-	Preview Scale Aspect Ratio	Preview Scale Aspect Ratio

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	1	66	0: Left + Up 1: Right + Up 2: Center 3: Left + Down 4: Right + Down	-	-	-	Preview Scale Native Location	Preview Scale Native Location
0	1	67	-32 ~ 32	-	-	-	Preview Scale Aspect Ratio Hor Zoom	Preview Scale Aspect RatioHorZoom
0	1	68	-32 ~ 32	-	-	-	Preview Scale Aspect Ratio Ver Zoom	Preview Scale Aspect RatioVerZoom
0	1	69	-32 ~ 32	-	-	-	Preview Scale Aspect Ratio Hor Pan	Preview Scale Aspect RatioHorPan
0	1	70	-32 ~ 32	-	-	-	Preview Scale Aspect Ratio Ver Pan	Preview Scale Aspect RatioVerPan
0	1	71	0: Off 1: On	-	-	-	Preview PIP On/Off	Preview PIP On/Off

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	1	72	0: Channel 1 1: Channel 2 2: Channel 3 3: Channel 4 4: Channel 5 5: Channel 6 6: Channel 7 7: Channel 8	-	-	-	Preview PIP Source	Preview PIP Source
0	1	73	0: 1/25 1: 1/16 2: 1/9 3: 1/4 4: Split 5: Custom	-	-	-	Preview PIP Size	Preview PIP Size
0	1	74	1 ~ 255	-	-	-	Preview PIP H-Size	Preview PIP H-Size
0	1	75	1 ~ 255	-	-	-	Preview PIP V-Size	Preview PIP V-Size
0	1	76	-32 ~ 32	-	-	-	Preview PIP H-Position	Preview PIP H-Position
0	1	77	-32 ~ 32	-	-	-	Preview PIP V-Position	Preview PIP V-Position

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	1	78	0: 640x480 1: 800x600 2: 832x624 3: 852x480 4: 1024x768 5: 1280x720 6: 1280x768 7: 1280x1024 8: 1366x768 9: 1365x1024 10: 1400x1050 11: 1600x1200 12: 480p 13: 576p 14: 720p 15: 1080i 16: 1080p 17: User define	-	-	-	Preview Output Resolution	Preview Output Resolution
0	1	79	0: 50 1: 60 2: 75	-	-	-	Preview Output RefreshRate	Preview Output RefreshRate
0	1	80	0: Off	-	-	-	Preview Output Test Pattern	Preview Output

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
			1: 32 Gray Ramp 2: Sharpness 3: Red 4: Green 5: Blue 6: White 7: Black 8: Chessboard 9: Color Bar 10: Aspect Ratio 11: RGB Gray Steps 12: Gamma Check					Test Pattern
0	1	81	1 ~ 4095	-	-	-	Preview Output User Mode HT	Preview Output User Mode HT
0	1	82	1 ~ 511	-	-	-	Preview Output User Mode HW	Preview Output User Mode HW
0	1	83	1 ~ 511	-	-	-	Preview Output User Mode HS	Preview Output User Mode HS
0	1	84	1 ~ 2047	-	-	-	Preview Output User Mode HA	Preview Output User Mode HA
0	1	85	0: - 1: +	-	-	-	Preview Output User Mode HP	Preview Output User Mode HP

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	1	86	1 ~ 4095	-	-	-	Preview Output User Mode VT	Preview Output User Mode VT
0	1	87	1 ~ 31	-	-	-	Preview Output User Mode VW	Preview Output User Mode VW
0	1	88	1 ~ 127	-	-	-	Preview Output User Mode VS	Preview Output User Mode VS
0	1	89	1 ~ 2047	-	-	-	Preview Output User Mode VA	Preview Output User Mode VA
0	1	90	0: - 1: +	-	-	-	Preview Output User Mode VP	Preview Output User Mode VP
0	1	91	6 ~ 200	0 ~ 999	-	-	Preview Output User Mode OCLK	Preview Output User Mode OCLK
0	1	92	0 ~ 255	-	-	-	Preview Output User Mode Delay	Preview Output User Mode Delay
0	-	93	-	-	-	-	Preview Output User Mode SetCurrent	Preview Output User Mode SetCurrent

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	1	94	0: Channel 1 1: Channel 2 2: Channel 3 3: Channel 4 4: Channel 5 5: Channel 6 6: Channel 7 7: Channel 8	-	-	-	Program Input Source	Program Input Source
0	1	95	0: RGBHV 1: RGBS(PC) 2: RGsB(PC) 3: ED/HD Component 4: SD Component 5: RGBS(Video) 6: RGsB(Video) 7: Y/C 8: Video	-	-	-	Program Input Type	Program Input Type

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	1	96	0: Auto 1: NTSC 2: PAL 3: PAL-M 4: PAL-N 5: NTSC 4.43 6: SECAM 7: PAL 60	-	-	-	Program Input Video Standard	Program Input Video Standard
0	1	97	-32 ~ 32	-	-	-	Program Calibration Contrast	Program Calibration Contrast
0	1	98	-32 ~ 32	-	-	-	Program Calibration Brightness	Program Calibration Brightness
0	1	99		-	-	-	Program Calibration H-Position	Program Calibration H-Position
0	1	100		-	-	-	Program Calibration V-Position	Program Calibration V-Position
0	1	101	-32 ~ 32	-	-	-	Program Calibration Saturation	Program Calibration

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
								Saturation
0	1	102	-50 ~ 50	-	-	-	Program Calibration Frequency	Program Calibration Frequency
0	1	103	0 ~ 31	-	-	-	Program Calibration Phase	Program Calibration Phase
0	-	104	-	-	-	-	Program Calibration AutoGain	Program Calibration AutoGain
0	-	105	-	-	-	-	Program Calibration AutoImage	Program Calibration AutoImage
0	1	106	-32 ~ 32	-	-	-	Program Calibration Tint	Program Calibration Tint
0	1	107	-32 ~ 64	-	-	-	Program Calibration Sharpness	Program Calibration Sharpness
0	1	108	0 ~ 30	-	-	-	Program Color ICC R	Program Color ICC R
0	1	109	0 ~ 30	-	-	-	Program Color ICC G	Program Color ICC G

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	1	110	0 ~ 30	-	-	-	Program Color ICC B	Program Color ICC B
0	1	111	0 ~ 30	-	-	-	Program Color ICC Y	Program Color ICC Y
0	1	112	0 ~ 30	-	-	-	Program Color Gamma	Program Color Gamma
0	1	113	-32 ~ 32	-	-	-	Program Color Color Temp	Program Color Color Temp
0	1	114	0: Off 1: 150% 2: 200% 3: 225% 4: 250% 5: 275% 6: 300% 7: 325% 8: 350% 9: 375% 10: 400%	-	-	-	Program Scale Zoom Ratio	Program Scale Zoom Ratio
0	1	115	-64 ~ 64	-	-	-	Program Scale Zoom H-Pan	Program Scale Zoom H-Pan

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	1	116	-64 ~ 64	-	-	-	Program Scale Zoom V-Pan	Program Scale Zoom V-Pan
0	1	117	0: Anamorphic 1: Virtual Wide 2: Letterbox 3: Native 4: 4:3 Output 5: User define	-	-	-	Program Scale Aspect Ratio	Program Scale Aspect Ratio
0	1	118	0: Left + Up 1: Right + Up 2: Center 3: Left + Down 4: Right + Down	-	-	-	Program Scale Native Location	Program Scale Native Location
0	1	119	-32 ~ 32	-	-	-	Program Scale Aspect RatioHorZoom	Program Scale Aspect RatioHorZoom
0	1	120	-32 ~ 32	-	-	-	Program Scale Aspect RatioVerZoom	Program Scale Aspect RatioVerZoom
0	1	121	-32 ~ 32	-	-	-	Program Scale Aspect RatioHorPan	Program Scale Aspect RatioHorPan

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	1	122	-32 ~ 32	-	-	-	Program Scale Aspect RatioVerPan	Program Scale Aspect RatioVerPan
0	1	123	0: Off 1: On	-	-	-	Program PIP On/Off	Program PIP On/Off
0	1	124	0: Channel 1 1: Channel 2 2: Channel 3 3: Channel 4 4: Channel 5 5: Channel 6 6: Channel 7 7: Channel 8	-	-	-	Program PIP Source	Program PIP Source
0	1	125	0: 1/25 1: 1/16 2: 1/9 3: 1/4 4: Split 5: Custom	-	-	-	Program PIP Size	Program PIP Size
0	1	126	1 ~ 255	-	-	-	Program PIP H-Size	Program PIP H-Size

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	1	127	1 ~ 255	-	-	-	Program PIP V-Size	Program PIP V-Size
0	1	128	-32 ~ 32	-	-	-	Program PIP H-Position	Program PIP H-Position
0	1	129	-32 ~ 32	-	-	-	Program PIP V-Position	Program PIP V-Position
0	1	130	0: 640x480 1: 800x600 2: 832x624 3: 852x480 4: 1024x768 5: 1280x720 6: 1280x768 7: 1280x1024 8: 1366x768 9: 1365x1024 10: 1400x1050 11: 1600x1200 12: 480p 13: 576p 14: 720p 15: 1080i	-	-	-	Program Output Resolution	Program Output Resolution

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
			16: 1080p 17: User define					
0	1	131	0: 50 1: 60 2: 75	-	-	-	Program Output RefreshRate	Program Output RefreshRate
0	1	132	0: Off 1: 32 Gray Ramp 2: Sharpness 3: Red 4: Green 5: Blue 6: White 7: Black 8: Chessboard 9: Color Bar 10: Aspect Ratio 11: RGB Gray Steps 12: Gamma Check	-	-	-	Program Output Test Pattern	Program Output Test Pattern
0	1	133	1 ~ 4095	-	-	-	Program Output User Mode HT	Program Output User Mode HT
0	1	134	1 ~ 511	-	-	-	Program Output User Mode HW	Program Output User Mode HW

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	1	135	1 ~ 511	-	-	-	Program Output User Mode HS	Program Output User Mode HS
0	1	136	1 ~ 2047	-	-	-	Program Output User Mode HA	Program Output User Mode HA
0	1	137	0: - 1: +	-	-	-	Program Output User Mode HP	Program Output User Mode HP
0	1	138	1 ~ 4095	-	-	-	Program Output User Mode VT	Program Output User Mode VT
0	1	139	1 ~ 31	-	-	-	Program Output User Mode VW	Program Output User Mode VW
0	1	140	1 ~ 127	-	-	-	Program Output User Mode VS	Program Output User Mode VS
0	1	141	1 ~ 2047	-	-	-	Program Output User Mode VA	Program Output User Mode VA
0	1	142	0: - 1: +	-	-	-	Program Output User Mode VP	Program Output User Mode VP
0	1	143	6 ~ 200	0 ~ 999	-	-	Program Output User Mode OCLK	Program Output User Mode OCLK
0	1	144	0 ~ 255	-	-	-	Program Output User Mode Delay	Program Output User Mode Delay
0	-	145	-	-	-	-	Program Output User Mode SetCurrent	Program Output User Mode

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
								SetCurrent
0	1	146	0: Cut 1: Fade 2: Diagonal 3: Wipe 4: Circle 5: Square 6: Corner 7: Chessboard	-	-	-	Transition Effect	Transition Effect
0	1	147	1 ~ 5	-	-	-	Transition Speed	Transition Speed
0	1	148	0: Top left 1: Bottom left 2: Top right 3: Bottom right	-	-	-	Transition Diagonal Option	Transition Diagonal Option
0	1	149	0: Left to right 1: Right to left 2: Up 3: Down	-	-	-	Transition Wipe Option	Transition Wipe Option
0	1	150	0: In 1: Out	-	-	-	Transition Circle Option	Transition Circle Option
0	1	151	0: In	-	-	-	Transition Square Option	Transition Square

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
			1: Out					Option
0	1	152	0: Top left 1: Bottom left 2: Top right 3: Bottom right	-	-	-	Transition Corner Option	Transition Corner Option
0	1	153	0: In 1: Out	-	-	-	Transition Chessboard Option	Transition Chessboard Option
0	-	154	-	-	-	-	Transition Take	Transition Take
0	1	155	0: Off 1: On	-	-	-	TCPIP DHCP	TCPIP DHCP
0	1	156	0 ~ 255	0 ~ 255	0 ~ 255	0 ~ 255	TCPIP IP Address	TCPIP IP Address
0	1	157	0 ~ 255	0 ~ 255	0 ~ 255	0 ~ 255	TCPIP Subnet Mask	TCPIP Subnet Mask
0	1	158	0 ~ 255	0 ~ 255	0 ~ 255	0 ~ 255	TCPIP Gateway	TCPIP Gateway
0	-	159	-	-	-	-	TCPIP Apply	TCPIP Apply
0	1	160	0: Normal 1: Double	-	-	-	OSD Setting Size	OSD Setting Size
0	1	161	-32 ~ 32	-	-	-	OSD Setting HorPosition	OSD Setting HorPosition

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	1	162	-32 ~ 32	-	-	-	OSD Setting VerPosition	OSD Setting VerPosition
0	1	163	3 ~ 60	-	-	-	OSD Setting TimeOut	OSD Setting TimeOut
0	1	164	0: Off 1: On	-	-	-	Misc Logo	Misc Logo
0	1	165	0: Off 1: On	-	-	-	Misc SaveLock	Misc SaveLock
0	1	166	0: Off 1: On	-	-	-	Misc InputLock	Misc InputLock
0	-	167	-	-	-	-	Save Setting 1	Save Setting 1
0	-	168	-	-	-	-	Save Setting 2	Save Setting 2
0	-	169	-	-	-	-	Save Setting 3	Save Setting 3
0	-	170	-	-	-	-	Save Setting 4	Save Setting 4
0	-	171	-	-	-	-	Save Setting 5	Save Setting 5
0	-	172	-	-	-	-	Save Setting 6	Save Setting 6
0	-	173	-	-	-	-	Save Setting 7	Save Setting 7

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	-	174	-	-	-	-	Save Setting 8	Save Setting 8
0	-	175	-	-	-	-	Recall Setting 1	Recall Setting 1
0	-	176	-	-	-	-	Recall Setting 2	Recall Setting 2
0	-	177	-	-	-	-	Recall Setting 3	Recall Setting 3
0	-	178	-	-	-	-	Recall Setting 4	Recall Setting 4
0	-	179	-	-	-	-	Recall Setting 5	Recall Setting 5
0	-	180	-	-	-	-	Recall Setting 6	Recall Setting 6
0	-	181	-	-	-	-	Recall Setting 7	Recall Setting 7
0	-	182	-	-	-	-	Recall Setting 8	Recall Setting 8
0	1	183	0: Cancel 1: Ok	-	-	-	Factory Reset	Factory Reset
-	1	184	-	-	-	-	Preview Main Standard	Preview Main Standard
-	1	185	-	-	-	-	Preview PIP Type	Preview PIP Type
-	1	186	-	-	-	-	Preview PIP Standard	Preview PIP Standard

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
-	1	187	-	-	-	-	Program Main Standard	Program Main Standard
-	1	188	-	-	-	-	Program PIP Type	Program PIP Type
-	1	189	-	-	-	-	Program PIP Standard	Program PIP Standard
0	1	195	0: Off 1: On	-	-	-	Preview Freeze	Preview Freeze
0	1	196	0: Off 1: On	-	-	-	Preview Blank	Preview Blank
0	1	197	0: Off 1: On	-	-	-	Program Freeze	Program Freeze
0	1	198	0: Off 1: On	-	-	-	Program Blank	Program Blank
0	1	199	0: Off 1: On	-	-	-	Panel Lock	Panel Lock
0	1	200	0: Off 1: On	-	-	-	OSD	OSD
0	1	201	0: Off 1: On	-	-	-	Power	Power
-	1	202	0: Off 1: On	-	-	-	Take	Take

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
0	-	203	-	-	-	-	Erase Setting 1	Erase Setting 1
0	-	204	-	-	-	-	Erase Setting 2	Erase Setting 2
0	-	205	-	-	-	-	Erase Setting 3	Erase Setting 3
0	-	206	-	-	-	-	Erase Setting 4	Erase Setting 4
0	-	207	-	-	-	-	Erase Setting 5	Erase Setting 5
0	-	208	-	-	-	-	Erase Setting 6	Erase Setting 6
0	-	209	-	-	-	-	Erase Setting 7	Erase Setting 7
0	-	210	-	-	-	-	Erase Setting 8	Erase Setting 8
0	-	211	-	-	-	-	Erase All	Erase All
-	1	212	0~3267 1->ON, 0->OFF bit 0: Chessboard bit 1: Panel lock bit 2: Menu bit 3: Enter bit 4: Left bit 5: Up	0~32767 1->ON, 0->OFF bit 0: Program Channel 8 bit 1: Preview Freeze bit 2: Program Freeze	0~32767 1-> ON, 0->OFF bit 0: Preview Channel 1 bit 1: Program Channel 1 bit 2: Preview Channel 2 bit 3: Program Channel 2 bit 4: Preview Channel 3 bit 5: Program Channel 3	-	Keypad LED status	

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
			bit 6: Down bit 7: Right bit 8: OSD	bit 3: Preview Blank bit 4: Program Blank bit 5: Preview PIP bit 6: Program PIP bit 7: Take bit 8: Cut bit 9: Diagonal bit 10: Circle bit 11: Corner bit 12: Fade bit 13: Wipe bit 14: Square	bit 6: Preview Channel 4 bit 7: Program Channel 4 bit 8: Preview Channel 5 bit 9: Program Channel 5 bit 10: Preview Channel 6 bit 11: Program Channel 6 bit 12: Preview Channel 7 bit 13: Program Channel 7 bit 14: Preview Channel 8			
0	1	213	0: Swap 1: Follow	-	-	-	Take Mode	
0	1	214	0: Black 1: Blue 2: Disable Analog Syncs	-	-	-	Background * Disable Analog Syncs will disable output analog syncs after input of current channel	

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
							not be detecting for 120s	
0	1	215	0: Black 1: Blue	-	-	-	Blank Color	
0	1	216	0: Off 1: On	-	-	-		Event Mode
0	1	217	0: User 1 1: User 2 2: User 3	-	-	-		Preview User Mode selection
0	1	218	0: User 1 1: User 2 2: User 3	-	-	-		Program User Mode selection
0	1	219	0 = no damping 1 = damping with a maximum jump size of 10 steps 2 = damping with a maximum jump size of 5 steps 3 = damping with a maximum jump size of 3 steps	-	-	-		T-BAR DAMPING

Control Type		Function	Param1	Param2	Param3	Param 4	Function Description	Comment
Set	Get							
			4 = damping with a maximum jump size of 2 steps					
0	1	220	16~240	-	-	-	T-Bar simulation * There are three value at least between start and stop * The values, 240 and 16 can not be start value. * The value, 240 and 16 must be stop value. * If start value is less than 129, the stop value will be 240 and the restore value will be 16. * If start value is greater than 128, the stop value will be 16 and the restore value will be 240.	0