

1 VP-725DS / VP-725DSA Communication Protocol

Table 1 includes the Communication Protocol:

Set Command: Y ■ Control_Type ■ Function ■ Param ■ CR

Reply Command: Z ■ Control_Type ■ Function ■ Param ■ CR

Example:

1. "Y ■ 1 ■ 1 ■ 32 ■ CR" - set Contrast value as 32
2. "Y ■ 10 ■ 5 ■ CR" - get current output resolution
"Z ■ 10 ■ 5 ■ 2 ■ CR" - current resolution is 1024x768

Definition:

■ : ASCII Code 0x20

CR : ASCII Code 0xD or 0xA

Table 1: Communication Protocol of the VP-725DS / VP-725DSA

Control Type	Function	Param (for Set)	Function Description	Comment
1: Set, 2: Get	0	128~0	Brightness	
1: Set, 2: Get	1	128~0	Contrast	
1: Set, 2: Get	2	-32~32	Aspect Ratio: Letterbox Pan	
1: Set, 2: Get	3	-32~32	Aspect Ratio: 4:3 Output Shift	
1: Set, 2: Get	4	-32~32	H-Zoom	
1: Set, 2: Get	5	-32~32	V-Zoom	
1: Set, 2: Get	6	-32~32	H-Pan	
1: Set, 2: Get	7	-32~32	V-Pan	
1: Set, 2: Get	8	-32~32	Keystone Angle	
1: Set, 2: Get	9	0~255	Graphics H-Position	
1: Set, 2: Get	10	0~255	Graphics V-Position	
1: Set, 2: Get	11	0~128	Graphics Color	
1: Set, 2: Get	12	0~128	Graphics Hue	
1: Set, 2: Get	13	0~16	Graphics Sharpness	
1: Set, 2: Get	14	0~100	Graphics Frequency	
1: Set, 2: Get	15	0~31	Graphics Phase	
1: Set, 2: Get	16	0~128	Video - Color	
1: Set, 2: Get	17	0~128	Video - Hue	
1: Set, 2: Get	18	0~16	Video - Sharpness	
1: Set, 2: Get	19	0~20	Video H-Position	
1: Set, 2: Get	20	0~20	Video V-Position for NTSC/NTSC 4.43/PAL-M/PAL 60	
		0~39	Video V-Position for PAL/PAL-N/SECAM/NTSC 4.43 50	
1: Set, 2: Get	21	0~255	Audio Setting: Treble Level	VP-725DSA only
1: Set, 2: Get	22	0~255	Audio Setting: Bass Level	VP-725DSA only
1: Set, 2: Get	23	0~255	Audio Setting: Balance Level	VP-725DSA only

Control Type	Function	Param (for Set)	Function Description	Comment
1: Set 2: Get	24	0~255	Audio Level: VGA Group Input Level	VP-725DSA only
1: Set 2: Get	25	0~255	Audio Level: DVI Group Input Level	VP-725DSA only
1: Set 2: Get	26	0~255	Audio Level: COMP Group Input Level	VP-725DSA only
1: Set 2: Get	27	0~255	Audio Level: YC Group Input Level	VP-725DSA only
1: Set 2: Get	28	0~255	Audio Level: AV Group Input Level	VP-725DSA only
1: Set 2: Get	29	0~255	Audio Level: VGA Group Output Level	VP-725DSA only
1: Set 2: Get	30	0~255	Audio Level: DVI Group Output Level	VP-725DSA only
1: Set 2: Get	31	0~255	Audio Level: COMP Group Output Level	VP-725DSA only
1: Set 2: Get	32	0~255	Audio Level: YC Group Output Level	VP-725DSA only
1: Set 2: Get	33	0~255	Audio Level: AV Group Output Level	VP-725DSA only
1: Set 2: Get	34	0~255	Audio Level: Master Input Level	VP-725DSA only
1: Set 2: Get	35	0~255	Audio Level: Master Output Level	VP-725DSA only
1: Set 2: Get	36	0~255	Audio Level: Mic Input Level	VP-725DSA only
1: Set 2: Get	37	0~36	PIP Setting: PIP H-Position	
1: Set 2: Get	38	0~36	PIP Setting: V-Position	
7	0	N/A	Gamma/Color - Normal	
7	1	N/A	Gamma/Color - Presentation	
7	2	N/A	Gamma/Color - Cinema	
7	3	N/A	Gamma/Color - Nature	
7	4	N/A	Gamma/Color - User 1	
7	5	N/A	Gamma/Color - User 2	
7	6	N/A	Aspect Ratio - Anamorphic	
7	7	N/A	Aspect Ratio - Virtual Wide	
7	8	N/A	Aspect Ratio - Letterbox	
7	9	N/A	Aspect Ratio - Native	
7	10	N/A	Aspect Ratio - 4:3 Output	
7	11	N/A	Aspect Ratio - User Define	

Control Type	Function	Param(for Set)	Function Description	Comment
3: Set 4: Get	0	0~1	Search	0: Manual 1: Auto
3: Set 4: Get	1	0~5	SELECT	VP725 DS 0: Video Group 3: Scaler VP725 DSA 0: Video Group 1: Audio Group 2: AV Group 3: Scaler 4: Master Audio 5: Master AV
				VP-725DSA only

3: Set 4: Get	2	0~3	Select VGA Group input	0: VGA1 1: VGA2 2: VGA3 3: VGA4	
3: Set 4: Get	3	0~1	Select DVI Group input	0: DVI1 1: DVI2	
3: Set 4: Get	4	0~3	Select COMP Group input	0: COMP1 1: COMP2 2: COMP3 3: COMP4	
3: Set4: Get	5	0~3	Select YC Group input	0: YC11: YC22: YC33: YC4	
3: Set 4: Get	6	0~3	Select AV Group input	0: AV1 1: AV2 2: AV3 3: AV4	
3: Set 4: Get	7	0~4	Aspect Ratio: Native Position	0: Left + Up 1: Right + Up 2: Center 3: Left + Down 4: Right + Down	
3: Set 4: Get	8	0~10	Zoom Ratio	0: 100% 1: 150% 2: 200% 3: 225% 4: 250% 5: 275% 6: 300% 7: 325% 8: 350% 9: 375% 10: 400%	
3: Set 4: Get	9	0~2	Graphics Setting: Color Format	0: Default 1: RGB 2: YUV	
3: Set 4: Get	10	0~2	Video Setting: Color Format	0: Default 1: RGB 2: YUV	
3: Set 4: Get	11	0~6	Video Setting: Video Standard	0: Video Standard - Auto 1: Video Standard - NTSC 2: Video Standard - NTSC 4.43 3: Video Standard - PAL 4: Video Standard - PAL-N 5: Video Standard - PAL-M 6: Video Standard - SECAM	
3: Set 4: Get	12	0~3	Mic Control	0: All Off 1: Override 2: Mix 3: TalkOver	VP-725DSA only
3: Set 4: Get	13	0~1	Audio Setting: Loudness	0:Off, 1:On	VP-725DSA only
3: Set 4: Get	14	0~1	PIP Setting: PIP ON/OFF	0:Off, 1:On	

3: Set4: Get	15	0~17	PIP Setting: PIP Source	0: VGA1 1: VGA2 2: VGA3 3: VGA4 4: DVI1 5: DVI2 6: COMP1 7: COMP2 8: COMP3 9: COMP4 10: YC1 11: YC2 12: YC3 13: YC4 14: AV1 15: AV2 16: AV3 17: AV4	
3: Set 4: Get	16	0~4	PIP Setting: PIP Size	0: 1/25 1: 1/16 2: 1/9 3: 1/4 4: Split	
3: Set 4: Get	17	0~2	Seamless Switch	0: Fast 1: Moderate 2: Safe	
3: Set 4: Get	18	0~1	OSD Setting: Source Prompt	0:Off, 1:On	
3: Set 4: Get	19	0~1	OSD Setting: Blank Color	0:Blue, 1:Black	
3: Set 4: Get	20	0~2	Output Color Format	0: Default 1: RGB 2: YUV	
3: Set 4: Get	21	0~1	Factory Reset	0:Cancel, 1:OK	
0	0	N/A	Freeze		
0	1	N/A	OSD ON		
0	2	N/A	Power		
0	3	N/A	AV1		
0	4	N/A	AV2		
0	5	N/A	AV3		
0	6	N/A	AV4		
0	7	N/A	YC1		
0	8	N/A	YC2		
0	9	N/A	YC3		
0	10	N/A	YC4		
0	11	N/A	COMP1		
0	12	N/A	COMP2		
0	13	N/A	COMP3		
0	14	N/A	COMP4		
0	15	N/A	VGA1		
0	16	N/A	VGA2		
0	17	N/A	VGA3		
0	18	N/A	VGA4		
0	19	N/A	DVI1		
0	20	N/A	DVI2		
0	21	N/A	Override		VP-725DSA only
0	22	N/A	Mix		VP-725DSA only

0	23	N/A	TalkOver		VP-725DSA only
0	24	N/A	SELECT		
0	25	N/A	Video Group		
0	26	N/A	Audio Group		VP-725DSA only
0	27	N/A	Scaler		
0	28	N/A	Master Audio		VP-725DSA only
0	29	N/A	Audio Level		VP-725DSA only
0	30	N/A	Audio Level - Line		VP-725DSA only
0	31	N/A	Audio Level - Mic		VP-725DSA only
0	32	N/A	Audio Level - Out		VP-725DSA only
0	33	N/A	Auto Image		
0	34	N/A	Auto Gain		
0	35	N/A	Menu		
0	36	N/A	Up		
0	37	N/A	Left		
0	38	N/A	Enter		
0	39	N/A	Right		
0	40	N/A	Down		
0	41	N/A	PIP		
0	42	N/A	Swap		
0	43	N/A	Contrast		
0	44	N/A	Brightness		
0	45	N/A	Zoom+		
0	46	N/A	Zoom-		
0	47	N/A	Volume+		VP-725DSA only
0	48	N/A	Volume-		VP-725DSA only
0	49	N/A	Mute		
0	50	N/A	OUT		
0	51	N/A	Aspect Ratio		
8	0	N/A	VGA/DVI/COMP Resolution/Refresh Rate		Example: "Y 8 0 CR" return: "Z 8 0 1080i CR"
9: Set 10: Get	0	0~1	Power	0: Power Down 1: Power On	
9: Set 10: Get	1	0~1	Freeze	0: Off 1: On	
9: Set 10: Get	2	0~1	Mute	0: Off 1: On	VP-725DSA only
9: Set 10: Get	3	0~1	Blank	0: Off 1: On	
9: Set 10: Get	4	0~1	Key Lock	0: Off 1: On	

<p>9: Set 10: Get</p>	<p>5</p>	<p>0~26</p>	<p>Output Resolution</p>	<p>0: 640x480 1: 800x600 2: 1024x768 3: 1280x1024 4: 1600x1200 5: 852x1024i 6: 1024x1024i 7: 1366x768 8: 1365x1024 9: 1280x720 10: 720x483 11: 852x480 12: 1400x1050 13: 480P 14: 720P 15: 1080i 16: 576P 17: 720x400 18: 832x624 19: 1024x800 20: 1152x864 21: 1152x870 22: 1152x900 23: 1280x960 24: 1280x768 25: 1024x576 26: User Define</p>	
<p>9: Set 10: Get</p>	<p>6</p>		<p>Output Refresh Rate</p>	<p>0: 60Hz 1: 75Hz 2: 85Hz 3: 70Hz 4: 84Hz 5: 66Hz 6: 76Hz 7: 50Hz 8: 72Hz</p>	
<p>9: Set 10: Get</p>	<p>7</p>	<p>0~17</p>	<p>Master Source</p>	<p>0: VGA1 1: VGA2 2: VGA3 3: VGA4 4: DVI1 5: DVI2 6: COMP1 7: COMP2 8: COMP3 9: COMP4 10: YC1 11: YC2 12 : YC3 13: YC4 14 : AV1 15 : AV2 16 : AV3 17 : AV4</p>	