

VP-719DS/VP-720DS/VP-723DS /VP-724DS Protocol NEW

Com port setting

Baud Rate: 9600/115200 bps
 Parity: none
 Data Bits: 8 bits
 Stop Bits: 1 bit
 Set CTS Mode: Off
 Set XON/XOFF: Off

RS232 Protocol

Field 1	Field 2	Field 3	Field 4	Fields
"L"	" "	"Code"	"~Code"	0x0d

Filed 1 : "L" ASCII Code, 1 byte
 Filed 2 : " " ASCII space, 1 byte
 Field 3 : "xx" Code Str, 2 byte
 Field 4 : "xx" is 1's complement of Code str, 2 byte
 Field 5 : 0x0d, 1 byte

Example: Menu On Command is

"L 12ED" + Enter

The communication code of RS232

Item	Code	Code(Hex)	~Code(Hex)	Function	Command
19	18	0x12	0xED	Menu On/Off	L 12ED
20	19	0x13	0xEC	Volume +	L 13EC
21	20	0x14	0xEB	Volume -	L 14EB
22	21	0x15	0xEA	Source	L 15EA
23	22	0x16	0xE9	VGA1	L 16E9
24	23	0x17	0xE8	VGA2	L 17E8
25	24	0x18	0xE7	DVI	L 18E7
26	25	0x19	0xE6	Component	L 19E6
27	26	0x1A	0xE5	Video 1	L 1AE5
28	27	0x1B	0xE4	Video 2	L 1BE4
29	28	0x1C	0xE3	Freeze	L 1CE3
30	29	0x1D	0xE2	PIP	L 1DE2
31	30	0x1E	0xE1	Auto Image	L 1EE1
32	31	0x1F	0xE0	Auto Gain	L 1FE0
33	32	0x20	0xDF	Zoom +	L 20DF
34	33	0x21	0xDE	Zoom -	L 21DE
35	34	0x22	0xDD	Mute	L 22DD
36	35	0x23	0xDC	Brightness	L 23DC
37	36	0x24	0xDB	Contrast	L 24DB
38	37	0x25	0xDA	Mode	L 25DA
39	38	0x26	0xD9	Normal	L 26D9
41	40	0x27	0xD8	Presentation	L 27D8
40	39	0x28	0xD7	Cinema	L 28D7
42	41	0x29	0xD6	Nature	L 29D6
43	42	0x2A	0xD5	USER 1	L 2AD5
44	43	0x2B	0xD4	USER 2	L 2BD4
45	44	0x2C	0xD3	SWAP	L 2CD3
46	45	0x2D	0xD2	Aspect Ratio	L 2DD2
47	46	0x2E	0xD1	Normal / Full Screen	L 2ED1
48	47	0x2F	0xD0	WideScreen / Native	L 2FD0
49	48	0x30	0xCF	Pan & Scan / Non-Linear	L 30CF
50	49	0x31	0xCE	4:3	L 31CE
51	50	0x32	0xCD	Up	L 32CD
52	51	0x33	0xCC	Down	L 33CC
53	52	0x34	0xCB	Left	L 34CB
54	53	0x35	0xCA	Right	L 35CA
55	54	0x36	0xC9	Enter	L 36C9
56	55	0x37	0xC8	Status	L 37C8
57	56	0x38	0xC7	Enter+UP	L 38C7
58	57	0x39	0xC6	C-Video 1	L 39C6
59	58	0x3A	0xC5	C-Video 2	L 3AC5
60	59	0x3B	0xC4	S-Video 1	L 3BC4
61	60	0x3C	0xC3	S-Video 2	L 3CC3
62	61	0x3D	0xC2	OUT	L 3DC2
63	62	0x3E	0xC1	Blank	L 3EC1
68	70	0x46	0xB9	Factory Reset	L 46B9
69	71	0x47	0xB8	Key Lock	L 47B8
70	72	0x48	0xB7	Wake up	L 48B7
71	73	0x49	0xB6	Standby	L 49B6
72	75	0x4B	0xB4	16:09	L 4BB4
73	176	0xB0	0x4F	PIP On	L B04F
74	177	0xB1	0x4E	PIP Off	L B14E
75	178	0xB2	0x4D	Freeze On	L B24D
76	179	0xB3	0x4C	Freeze Off	L B34C
77	180	0xB4	0x4B	Mute On	L B44B
78	181	0xB5	0x4A	Mute Off	L B54A

The Changes of New version

79	182	0xB6	0x49	Blank On	L B649
80	183	0xB7	0x48	Blank Off	L B748
81	184	0xB8	0x47	Key Lock On	L B847
82	185	0xB9	0x46	Key Lock Off	L B946
83	186	0xBA	0x45	Output Resolution	L BA45 **
VP-719DS/VP-720DS		VP-723DS/VP-724DS			
640x480	L BA45 00	640x480	L BA45 00		
800x600	L BA45 01	800x600	L BA45 01		
1024x768	L BA45 02	1024x768	L BA45 02		
1280x1024	L BA45 03	1280x1024	L BA45 03		
1600x1200	L BA45 04	1600x1200	L BA45 04		
852x1024i	L BA45 05	852x1024i	L BA45 05		
1024x1024i	L BA45 06	1024x1024i	L BA45 06		
1366x768	L BA45 07	1366x768	L BA45 07		
1365x1024	L BA45 08	1365x1024	L BA45 08		
1280x720	L BA45 09	1280x720	L BA45 09		
720x483	L BA45 10	720x483	L BA45 10		
852x480	L BA45 11	852x480	L BA45 11		
1400x1050	L BA45 12	1400x1050	L BA45 12		
User Define	L BA45 13	480P	L BA45 13		
		720P	L BA45 14		
		1080i	L BA45 15		
		User Define	L BA45 16		
84	187	0xBB	0x44	PIP Source	L BB44 **
VGA1	L BB44 00	Must use while Main Source is Video Group and will not work while Main Source is Graphic Group	Must use while Main Source is Graphic Group and will not work while Main Source is Video Group		
VGA2	L BB44 01				
DVI	L BB44 02				
Component	L BB44 03				
YC1	L BB44 04				
AC1	L BB44 05				
YC2	L BB44 06				
AC2	L BB44 07				
Scart	L BB44 08				
TV	L BB44 09				
85	227	0xE3	0x1C	PIP Size	L E31C **
1/25	L E31C 00				
1/16	L E31C 01				
1/9	L E31C 02				
1/4	L E31C 03				
split	L E31C 04				

** is Resolution index

The Changes of New version
** is PIP source index

Caution:
Sending the wrong command will cause the unit to operate erroneously, requiring cycling of the power to resume normal operation.

** is PIP size index

RS232 Read Command

Command Sent	
Source	K 15EA
Freeze	K 1CE3
PIP	K 1DE2
Mute	K 22DD
Blank	K 3EC1
Key Lock	K 47B8
Output Resolution	K BA45

Return	
VGA1	K 16E9
VGA2	K 17E8
DVI	K 18E7
Component	K 19E6
C-Video 1	K 39C6
C-Video 2	K 3AC5
S-Video 1	K 3BC4
S-Video 2	K 3CC3
Freeze On	K B24D
Freeze Off	K B34C
PIP On	K B04F
PIP Off	K B14E
Mute On	K B44B
Mute Off	K B54A
Blank On	K B649
Blank Off	K B748
Key Lock On	K B847
Key Lock Off	K B946
640x480	K 00FF
800x600	K 01FE
1024x768	K 02FD
1280x1024	K 03FC
1600x1200	K 04FB
852x1024i	K 05FA
1024x1024i	K 06F9
1366x768	K 07F8
1366x1024	K 08F7
1280x720	K 09F6
720x483	K 0AF5

VGA/DIV resolution	K E01F
VGA/DIV Reflash rate	K E11E
Video Standard	K E21D
PIP Size	K E31C
PIP H position	K E41B
PIP V position	K E51A

852x480	K 0BF4
1400x1050	K 0CF3
480P	K 0DF2
720P	K 0EF1
1080i	K 0FF0
User Define	K 10EF
640x480	K 00FF
NTSC 60	K 01FE
PAL 50	K 02FD
720x400	K 03FC
800x600	K 04FB
832x624	K 05FA
1024x768	K 06F9
1024x800	K 07F8
1152x870	K 08F7
1280x960	K 09F6
1280x1024	K 0AF5
1600x1200	K 0BF4
1280x720P	K 0CF3
853x480P	K 0DF2
1920x1080I	K 0EF1
720x576P	K 0FF0
1152x900	K 10EF
1400x1050	K 11EE
No Signal	K FF00
Reflash rate(Hex)	K ##&&
No Signal	K FF00
NTSC	K 01FE
NTSC 4.43	K 02FD
PAL	K 03FC
PAL N	K 04FB
PAL M	K 05FA
SECAE	K 06F9
PAL 60	K 07F8
NTSC 4.43 50	K 08F7
No Signal	K FF00
1/25	K 00FF
1/16	K 01FE
1/9	K 02FD
1/4	K 03FC
Split	K 04FB
H position(Hex)	K ##&&
V position(Hex)	K ##&&

is Value,&& is ## invert

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