

VPL-305 - DMX Protocol

Protocol Rev. 1.0



Mode
8 Bit One Pixel

Valid From Firmware Version
5.4

Channel	Name	DMX Value	DMX Percentage	Description	Cluster	Default DMX Value	Fader Type
1	Red	0 255	0,0% 100,0%	No Red -> Maximum Red	All	0 (0%)	Fade
2	Green	0 255	0,0% 100,0%	No Green -> Maximum Green	All	0 (0%)	Fade
3	Blue	0 255	0,0% 100,0%	No Blue -> Maximum Blue	All	0 (0%)	Fade

Mode
16 Bit One Pixel

Valid From Firmware Version
5.4

Channel	Name	DMX Value	DMX Percentage	Description	Cluster	Default DMX Value	Fader Type
1	Red	0 65535	0,0% 100,0%	No RED -> Maximum RED	All	0 (0%)	Fade
2	Red	0 65535	0,0% 100,0%	No RED -> Maximum RED	All	0 (0%)	Fade
3	Green	0 65535	0,0% 100,0%	No GREEN -> Maximum GREEN	All	0 (0%)	Fade
4	Green	0 65535	0,0% 100,0%	No GREEN -> Maximum GREEN	All	0 (0%)	Fade
5	Blue	0 65535	0,0% 100,0%	No BLUE -> Maximum BLUE	All	0 (0%)	Fade
6	Blue	0 65535	0,0% 100,0%	No BLUE -> Maximum BLUE	All	0 (0%)	Fade



Mode
8 Bit

Valid From Firmware Version
5.4

Channel	Name	DMX Value	DMX Percentage	Description	Cluster	Default DMX Value	Fader Type
1	Red	0 255	0,0% 100,0%	No Red -> Maximum Red	1	0 (0%)	Fade
2	Green	0 255	0,0% 100,0%	No Green -> Maximum Green	1	0 (0%)	Fade
3	Blue	0 255	0,0% 100,0%	No Blue -> Maximum Blue	1	0 (0%)	Fade
4	Red	0 255	0,0% 100,0%	No Red -> Maximum Red	2	0 (0%)	Fade
5	Green	0 255	0,0% 100,0%	No Green -> Maximum Green	2	0 (0%)	Fade
6	Blue	0 255	0,0% 100,0%	No Blue -> Maximum Blue	2	0 (0%)	Fade
7	Red	0 255	0,0% 100,0%	No Red -> Maximum Red	3	0 (0%)	Fade
8	Green	0 255	0,0% 100,0%	No Green -> Maximum Green	3	0 (0%)	Fade
9	Blue	0 255	0,0% 100,0%	No Blue -> Maximum Blue	3	0 (0%)	Fade
10	Red	0 255	0,0% 100,0%	No Red -> Maximum Red	4	0 (0%)	Fade
11	Green	0 255	0,0% 100,0%	No Green -> Maximum Green	4	0 (0%)	Fade
12	Blue	0 255	0,0% 100,0%	No Blue -> Maximum Blue	4	0 (0%)	Fade
13	Red	0 255	0,0% 100,0%	No Red -> Maximum Red	5	0 (0%)	Fade
14	Green	0 255	0,0% 100,0%	No Green -> Maximum Green	5	0 (0%)	Fade
15	Blue	0 255	0,0% 100,0%	No Blue -> Maximum Blue	5	0 (0%)	Fade

Mode
8 Bit

Valid From Firmware Version
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Channel	Name	DMX Value		DMX Percentage		Description	Cluster	Default DMX Value	Fader Type
16	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	6	0 (0%)	Fade
17	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	6	0 (0%)	Fade
18	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	6	0 (0%)	Fade
19	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	7	0 (0%)	Fade
20	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	7	0 (0%)	Fade
21	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	7	0 (0%)	Fade
22	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	8	0 (0%)	Fade
23	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	8	0 (0%)	Fade
24	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	8	0 (0%)	Fade
25	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	9	0 (0%)	Fade
26	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	9	0 (0%)	Fade
27	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	9	0 (0%)	Fade
28	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	10	0 (0%)	Fade
29	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	10	0 (0%)	Fade
30	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	10	0 (0%)	Fade
31	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	11	0 (0%)	Fade
32	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	11	0 (0%)	Fade
33	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	11	0 (0%)	Fade
34	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	12	0 (0%)	Fade
35	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	12	0 (0%)	Fade
36	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	12	0 (0%)	Fade
37	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	13	0 (0%)	Fade
38	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	13	0 (0%)	Fade
39	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	13	0 (0%)	Fade
40	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	14	0 (0%)	Fade
41	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	14	0 (0%)	Fade
42	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	14	0 (0%)	Fade
43	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	15	0 (0%)	Fade
44	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	15	0 (0%)	Fade
45	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	15	0 (0%)	Fade
46	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	16	0 (0%)	Fade
47	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	16	0 (0%)	Fade
48	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	16	0 (0%)	Fade

Mode
16 Bit

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Channel	Name	DMX Value	DMX Percentage	Description	Cluster	Default DMX Value	Fader Type	
1	Red	0	65535	0,0%	No Red -> Maximum Red	1	0 (0%)	Fade
2			100,0%					
3	Green	0	65535	0,0%	No Green -> Maximum Green	1	0 (0%)	Fade
4			100,0%					
5	Blue	0	65535	0,0%	No Blue -> Maximum Blue	1	0 (0%)	Fade
6			100,0%					
7	Red	0	65535	0,0%	No Red -> Maximum Red	2	0 (0%)	Fade
8			100,0%					
9	Green	0	65535	0,0%	No Green -> Maximum Green	2	0 (0%)	Fade
10			100,0%					
11	Blue	0	65535	0,0%	No Blue -> Maximum Blue	2	0 (0%)	Fade
12			100,0%					
13	Red	0	65535	0,0%	No Red -> Maximum Red	3	0 (0%)	Fade
14			100,0%					
15	Green	0	65535	0,0%	No Green -> Maximum Green	3	0 (0%)	Fade
16			100,0%					
17	Blue	0	65535	0,0%	No Blue -> Maximum Blue	3	0 (0%)	Fade
18			100,0%					
19	Red	0	65535	0,0%	No Red -> Maximum Red	4	0 (0%)	Fade
20			100,0%					
21	Green	0	65535	0,0%	No Green -> Maximum Green	4	0 (0%)	Fade
22			100,0%					
23	Blue	0	65535	0,0%	No Blue -> Maximum Blue	4	0 (0%)	Fade
24			100,0%					
25	Red	0	65535	0,0%	No Red -> Maximum Red	5	0 (0%)	Fade
26			100,0%					
27	Green	0	65535	0,0%	No Green -> Maximum Green	5	0 (0%)	Fade
28			100,0%					
29	Blue	0	65535	0,0%	No Blue -> Maximum Blue	5	0 (0%)	Fade
30			100,0%					
31	Red	0	65535	0,0%	No Red -> Maximum Red	6	0 (0%)	Fade
32			100,0%					
33	Green	0	65535	0,0%	No Green -> Maximum Green	6	0 (0%)	Fade
34			100,0%					
35	Blue	0	65535	0,0%	No Blue -> Maximum Blue	6	0 (0%)	Fade
36			100,0%					
37	Red	0	65535	0,0%	No Red -> Maximum Red	7	0 (0%)	Fade
38			100,0%					
39	Green	0	65535	0,0%	No Green -> Maximum Green	7	0 (0%)	Fade
40			100,0%					
41	Blue	0	65535	0,0%	No Blue -> Maximum Blue	7	0 (0%)	Fade
42			100,0%					
43	Red	0	65535	0,0%	No Red -> Maximum Red	8	0 (0%)	Fade
44			100,0%					
45	Green	0	65535	0,0%	No Green -> Maximum Green	8	0 (0%)	Fade
46			100,0%					
47	Blue	0	65535	0,0%	No Blue -> Maximum Blue	8	0 (0%)	Fade
48			100,0%					
49	Red	0	65535	0,0%	No Red -> Maximum Red	9	0 (0%)	Fade
50			100,0%					
51	Green	0	65535	0,0%	No Green -> Maximum Green	9	0 (0%)	Fade
52			100,0%					
53	Blue	0	65535	0,0%	No Blue -> Maximum Blue	9	0 (0%)	Fade
54			100,0%					
55	Red	0	65535	0,0%	No Red -> Maximum Red	10	0 (0%)	Fade
56			100,0%					
57	Green	0	65535	0,0%	No Green -> Maximum Green	10	0 (0%)	Fade
58			100,0%					
59	Blue	0	65535	0,0%	No Blue -> Maximum Blue	10	0 (0%)	Fade
60			100,0%					
61	Red	0	65535	0,0%	No Red -> Maximum Red	11	0 (0%)	Fade
62			100,0%					
63	Green	0	65535	0,0%	No Green -> Maximum Green	11	0 (0%)	Fade
64			100,0%					
65	Blue	0	65535	0,0%	No Blue -> Maximum Blue	11	0 (0%)	Fade
66			100,0%					
67	Red	0	65535	0,0%	No Red -> Maximum Red	12	0 (0%)	Fade
68			100,0%					
69	Green	0	65535	0,0%	No Green -> Maximum Green	12	0 (0%)	Fade
70			100,0%					
71	Blue	0	65535	0,0%	No Blue -> Maximum Blue	12	0 (0%)	Fade
72			100,0%					
73	Red	0	65535	0,0%	No Red -> Maximum Red	13	0 (0%)	Fade
74			100,0%					
75	Green	0	65535	0,0%	No Green -> Maximum Green	13	0 (0%)	Fade
76			100,0%					
77	Blue	0	65535	0,0%	No Blue -> Maximum Blue	13	0 (0%)	Fade
78			100,0%					
79	Red	0	65535	0,0%	No Red -> Maximum Red	14	0 (0%)	Fade
80			100,0%					
81	Green	0	65535	0,0%	No Green -> Maximum Green	14	0 (0%)	Fade
82			100,0%					
83	Blue	0	65535	0,0%	No Blue -> Maximum Blue	14	0 (0%)	Fade
84			100,0%					
85	Red	0	65535	0,0%	No Red -> Maximum Red	15	0 (0%)	Fade
86			100,0%					
87	Green	0	65535	0,0%	No Green -> Maximum Green	15	0 (0%)	Fade
88			100,0%					
89	Blue	0	65535	0,0%	No Blue -> Maximum Blue	15	0 (0%)	Fade
90			100,0%					
91	Red	0	65535	0,0%	No Red -> Maximum Red	16	0 (0%)	Fade
92			100,0%					
93	Green	0	65535	0,0%	No Green -> Maximum Green	16	0 (0%)	Fade
94			100,0%					
95	Blue	0	65535	0,0%	No Blue -> Maximum Blue	16	0 (0%)	Fade
96			100,0%					

Mode
8 Bit 2 Pix as 1

Valid From Firmware Version
5.4

Channel	Name	DMX Value	DMX Percentage	Description	Cluster	Default DMX Value	Fader Type		
1	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	1	0 (0%)	Fade
2	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	1	0 (0%)	Fade
3	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	1	0 (0%)	Fade
4	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	2	0 (0%)	Fade
5	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	2	0 (0%)	Fade
6	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	2	0 (0%)	Fade
7	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	3	0 (0%)	Fade
8	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	3	0 (0%)	Fade
9	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	3	0 (0%)	Fade
10	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	4	0 (0%)	Fade
11	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	4	0 (0%)	Fade
12	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	4	0 (0%)	Fade
13	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	5	0 (0%)	Fade
14	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	5	0 (0%)	Fade
15	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	5	0 (0%)	Fade
16	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	6	0 (0%)	Fade
17	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	6	0 (0%)	Fade
18	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	6	0 (0%)	Fade
19	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	7	0 (0%)	Fade
20	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	7	0 (0%)	Fade
21	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	7	0 (0%)	Fade
22	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	8	0 (0%)	Fade
23	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	8	0 (0%)	Fade
24	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	8	0 (0%)	Fade

Mode
8 Bit 4 Pix as 1

Valid From Firmware Version
5.4

Channel	Name	DMX Value	DMX Percentage	Description	Cluster	Default DMX Value	Fader Type		
1	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	1	0 (0%)	Fade
2	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	1	0 (0%)	Fade
3	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	1	0 (0%)	Fade
4	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	2	0 (0%)	Fade
5	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	2	0 (0%)	Fade
6	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	2	0 (0%)	Fade
7	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	3	0 (0%)	Fade
8	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	3	0 (0%)	Fade
9	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	3	0 (0%)	Fade
10	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	4	0 (0%)	Fade
11	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	4	0 (0%)	Fade
12	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	4	0 (0%)	Fade

Mode
8 Bit 8 Pix as 1

Valid From Firmware Version
5.4

Channel	Name	DMX Value	DMX Percentage	Description	Cluster	Default DMX Value	Fader Type		
1	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	1	0 (0%)	Fade
2	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	1	0 (0%)	Fade
3	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	1	0 (0%)	Fade
4	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	2	0 (0%)	Fade
5	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	2	0 (0%)	Fade
6	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	2	0 (0%)	Fade

Mode
8 Bit 16 Pix as 1

Valid From Firmware Version
5.4

Channel	Name	DMX Value	DMX Percentage	Description	Cluster	Default DMX Value	Fader Type		
1	Red	0	255	0,0%	100,0%	No Red -> Maximum Red	1	0 (0%)	Fade
2	Green	0	255	0,0%	100,0%	No Green -> Maximum Green	1	0 (0%)	Fade
3	Blue	0	255	0,0%	100,0%	No Blue -> Maximum Blue	1	0 (0%)	Fade