

Valid from firmware version: V1.1

24 Channels (Mode 1) / 39 Channels (Mode 2) / 97 Channels (Mode 3):

CHANNEL			VALUE	FUNCTION
24ch	39ch	97ch		
1	1	1	000-255	PAN 0°→540°
2	2	2	000-255	PAN FINE
3	3	3	000-255	TILT 0°→450°
4	4	4	000-255	TILT FINE
5	5	5	000-127 128-189 190-193 194-255	PAN INFINITY Null Counter-Clockwise Rotation, Fast to Slow Stop Clockwise Rotation, Slow to Fast
6	6	6	000-127 128-189 190-193 194-255	TILT INFINITY Null Clockwise Rotation, Fast to Slow Stop Counter-Clockwise Rotation, Slow to Fast
7	7	7	000-255	PAN/TILT SPEED Fast to Slow
8	8	8	000-255	ZOOM Wide→Narrow
9			000-255	DIMMER 0%→100%
10			000-255	DIMMER FINE
	9	9	000-255	WASH_DIMMER 0%→100%
	10	10	000-255	WASH_DIMMER FINE
11	11	11	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239	WASH_STROBE Close Open Strobe from Slow to Fast Open Fast Open Slow Close from Slow to Fast Open Slow Open Fast Close from Slow to Fast Open

			240-247 248-255	Random Strobe from Slow to Fast Open
	12	12	000-255	BEAM_DIMMER 0%→100%
	13	13	000-255	BEAM_DIMMER FINE
12	14	14	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	BEAM_STROBE Close Open Strobe from Slow to Fast Open Fast Open Slow Close from Slow to Fast Open Slow Open Fast Close from Slow to Fast Open Random Strobe from Slow to Fast Open
	15	15	000-255	ZONE_DIMMER 0%→100%
	16	16	000-255	ZONE_DIMMER FINE
13	17	17	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	ZONE_STROBE Close Open Strobe from Slow to Fast Open Fast Open Slow Close from Slow to Fast Open Slow Open Fast Close from Slow to Fast Open Random Strobe from Slow to Fast Open
	18	18	000-255	LINE_DIMMER 0%→100%
	19	19	000-255	LINE_DIMMER FINE
14	20	20	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239	LINE_STROBE Close Open Strobe from Slow to Fast Open Fast Open Slow Close from Slow to Fast Open Slow Open Fast Close from Slow to Fast Open

			240-247 248-255	Random Strobe from Slow to Fast Open
15	21	21		SPECIAL FUNCTION (To activate following functions, stop in DMX value for at least 3 seconds.)
			000-009	Null
			010-019	Zoom Mode: Short
			020-029	Zoom Mode: Long
			030-039	Dimmer Curve: Linear
			040-049	Dimmer Curve: Square law
			050-059	Dimmer Curve: Inv SQ law
			060-069	Dimmer Curve: S Curve
			070-079	Null
			080-089	Power Mode: Auto
			090-099	Power Mode: Quiet
			100-109	Led Frequency Setting Enable
			110-119	Led Frequency Setting Disable
			120-122	Null
			123	900Hz
			124	1000Hz
			125	1100Hz
			126	1200Hz
			127	1300Hz
			128	1400Hz
			129	1500Hz
			130	2500Hz
			131	4000Hz
			132	5000Hz
			133	6000Hz
			134	10KHz
			135	15KHz
			136	20KHz
			137	25KHz
			138-139	Null
			140-149	Pan/Tilt Reset
			150-159	Effect Reset
			160-199	Null
			200-209	Reset All
			210-219	Dimmer Speed: Fast
			220-229	Dimmer Speed: Smooth
			230-239	Line Power Mode: Off
			240-249	Line Power Mode: On
			250-255	No Function
16	22			WASH_RED

			000-255	0%→100%
17	23		000-255	WASH_GREEN 0%→100%
18	24		000-255	WASH_BLUE 0%→100%
19	25		000-255	WASH_WHITE 0%→100%
		22	000-255	WASH_RED 1 0%→100%
		23	000-255	WASH_GREEN 1 0%→100%
		24	000-255	WASH_BLUE 1 0%→100%
		25	000-255	WASH_WHITE 1 0%→100%
		26	000-255	WASH_RED 2 0%→100%
		27	000-255	WASH_GREEN 2 0%→100%
		28	000-255	WASH_BLUE 2 0%→100%
		29	000-255	WASH_WHITE 2 0%→100%
		30	000-255	WASH_RED 3 0%→100%
		31	000-255	WASH_GREEN 3 0%→100%
		32	000-255	WASH_BLUE 3 0%→100%
		33	000-255	WASH_WHITE 3 0%→100%
		34	000-255	WASH_RED 4 0%→100%
		35	000-255	WASH_GREEN 4 0%→100%
		36	000-255	WASH_BLUE 4 0%→100%
		37	000-255	WASH_WHITE 4 0%→100%
	26		0	WASH_CCT Null

		001-004	8000K
		005-009	7900K
		010-013	7800K
		014-018	7700K
		019-022	7600K
		023-027	7500K
		028-031	7400K
		032-036	7300K
		037-040	7200K
		041-045	7100K
		046-049	7000K
		050-054	6900K
		055-058	6800K
		059-063	6700K
		064-067	6600K
		068-072	6500K
		073-076	6400K
		077-081	6300K
		082-085	6200K
		086-090	6100K
		091-094	6000K
		095-099	5900K
		100-103	5800K
		104-108	5700K
		109-112	5600K
		113-117	5500K
		118-121	5400K
		122-126	5300K
		127-130	5200K
		131-135	5100K
		136-139	5000K
		140-144	4900K
		145-148	4800K
		149-153	4700K
		154-157	4600K
		158-162	4500K
		163-166	4400K
		167-171	4300K
		172-175	4200K
		176-180	4100K
		181-184	4000K
		185-189	3900K
		190-193	3800K
		194-198	3700K

			199-202	3600K
			203-207	3500K
			208-211	3400K
			212-216	3300K
			217-220	3200K
			221-225	3100K
			226-229	3000K
			230-234	2900K
			235-238	2800K
			239-243	2700K
			244-247	2600K
			248-255	2500K
				WASH_COLOR MACRO
			000-009	Null
			010-016	LEE 790-Moroccan Pink
			017-023	LEE 157-Pink
			024-030	LEE 332-Special Rose Pink
			031-037	LEE 328-Follies Pink
			038-044	LEE 345-Fuchsia Pink
			045-051	LEE 194-Surprise Pink
			052-058	LEE 181-Congo Blue
			059-065	LEE 071-Tokyo Blue
			066-072	LEE 120-Deep Blue
			073-079	LEE 079-Just Blue
			080-086	LEE 132-Medium Blue
			087-093	LEE 200-Double CT Blue
			094-100	LEE 161-State Blue
			101-107	LEE 201-Full CT Blue
			108-114	LEE 202-Half CT Blue
			115-121	LEE 117-Steel Blue
			122-128	LEE 353-Lighter Blue
			129-135	LEE 118-Light Blue
			136-142	LEE 116-Medium Blue Green
			143-149	LEE 124-Dark Green
			150-156	LEE 139-Primary Green
			157-163	LEE 089-Moss Green
			164-170	LEE 122-Fern Green
			171-177	LEE 738-JAS Green
			178-184	LEE 088-Lime Green
			185-191	LEE 100-Spring Yellow
			192-198	LEE 104-Deep Amber
			199-215	LEE 179-Chrome Orange
			216-222	LEE 105-Orange
			223-229	LEE 021-Gold Amber

			230-236 237-243 244-255	LEE 778-Millennium Gold LEE 135-Deep Gold Amber LEE 164-Flame Red
20	28		000-255	BEAM_WHITE 0%→100%
		38	000-255	BEAM_WHITE 1 0%→100%
		39	000-255	BEAM_WHITE 2 0%→100%
		40	000-255	BEAM_WHITE 3 0%→100%
		41	000-255	BEAM_WHITE 4 0%→100%
		42	000-255	BEAM_WHITE 5 0%→100%
		43	000-255	BEAM_WHITE 6 0%→100%
		44	000-255	BEAM_WHITE 7 0%→100%
		45	000-255	BEAM_WHITE 8 0%→100%
		46	000-255	BEAM_WHITE 9 0%→100%
	29		000-007 008-015 016-023 024-031 032-039 040-047 048-055 056-063 064-071 072-079 080-087 088-095 096-103 104-111 112-119 120-127 128-135 136-143 144-151	BEAM_MACRO Null Macro Effect 1 Macro Effect 2 Macro Effect 3 Macro Effect 4 Macro Effect 5 Macro Effect 6 Macro Effect 7 Macro Effect 8 Macro Effect 9 Macro Effect 10 Macro Effect 11 Macro Effect 12 Macro Effect 13 Macro Effect 14 Macro Effect 15 Macro Effect 16 Macro Effect 17 Macro Effect 18

			152-159 160-167 168-175 176-183 184-191 192-199 200-207 208-215 216-223 224-231 232-239 240-247 248-255	Macro Effect 19 Macro Effect 20 Macro Effect 21 Macro Effect 22 Macro Effect 23 Macro Effect 24 Macro Effect 25 Macro Effect 26 Macro Effect 27 Macro Effect 28 Macro Effect 29 Macro Effect 30 Macro Effect 31
	30		000 001-127 128 129-255	BEAM_MACRO SPEED Null Slow to Fast without Fade Null Slow to Fast with Fade
21	31		000-255	ZONE_RED 0%→100%
22	32		000-255	ZONE_GREEN 0%→100%
23	33		000-255	ZONE_BLUE 0%→100%
		47	000-255	ZONE_RED 1 0%→100%
		48	000-255	ZONE_GREEN 1 0%→100%
		49	000-255	ZONE_BLUE 1 0%→100%
		50	000-255	ZONE_RED 2 0%→100%
		51	000-255	ZONE_GREEN 2 0%→100%
		52	000-255	ZONE_BLUE 2 0%→100%
		53	000-255	ZONE_RED 3 0%→100%
		54	000-255	ZONE_GREEN 3 0%→100%
		55	000-255	ZONE_BLUE 3 0%→100%

		56	000-255	ZONE_RED 4 0%→100%
		57	000-255	ZONE_GREEN 4 0%→100%
		58	000-255	ZONE_BLUE 4 0%→100%
		59	000-255	ZONE_RED 5 0%→100%
		60	000-255	ZONE_GREEN 5 0%→100%
		61	000-255	ZONE_BLUE 5 0%→100%
		62	000-255	ZONE_RED 6 0%→100%
		63	000-255	ZONE_GREEN 6 0%→100%
		64	000-255	ZONE_BLUE 6 0%→100%
		65	000-255	ZONE_RED 7 0%→100%
		66	000-255	ZONE_GREEN 7 0%→100%
		67	000-255	ZONE_BLUE 7 0%→100%
		68	000-255	ZONE_RED 8 0%→100%
		69	000-255	ZONE_GREEN 8 0%→100%
		70	000-255	ZONE_BLUE 8 0%→100%
		71	000-255	ZONE_RED 9 0%→100%
		72	000-255	ZONE_GREEN 9 0%→100%
		73	000-255	ZONE_BLUE 9 0%→100%
	34		000-009 010-016 017-023 024-030	ZONE_COLOR MACRO Null LEE 790-Moroccan Pink LEE 157-Pink LEE 332-Special Rose Pink

			031-037 038-044 045-051 052-058 059-065 066-072 073-079 080-086 087-093 094-100 101-107 108-114 115-121 122-128 129-135 136-142 143-149 150-156 157-163 164-170 171-177 178-184 185-191 192-198 199-215 216-222 223-229 230-236 237-243 244-255	LEE 328-Follies Pink LEE 345-Fuchsia Pink LEE 194-Surprise Pink LEE 181-Congo Blue LEE 071-Tokyo Blue LEE 120-Deep Blue LEE 079-Just Blue LEE 132-Medium Blue LEE 200-Double CT Blue LEE 161-State Blue LEE 201-Full CT Blue LEE 202-Half CT Blue LEE 117-Steel Blue LEE 353-Lighter Blue LEE 118-Light Blue LEE 116-Medium Blue Green LEE 124-Dark Green LEE 139-Primary Green LEE 089-Moss Green LEE 122-Fern Green LEE 738-JAS Green LEE 088-Lime Green LEE 100-Spring Yellow LEE 104-Deep Amber LEE 179-Chrome Orange LEE 105-Orange LEE 021-Gold Amber LEE 778-Millennium Gold LEE 135-Deep Gold Amber LEE 164-Flame Red
	35		000-007 008-015 016-023 024-031 032-039 040-047 048-055 056-063 064-071 072-079 080-087 088-095 096-103	ZONE_MACRO Null Macro Effect 1 Macro Effect 2 Macro Effect 3 Macro Effect 4 Macro Effect 5 Macro Effect 6 Macro Effect 7 Macro Effect 8 Macro Effect 9 Macro Effect 10 Macro Effect 11 Macro Effect 12

			104-111 112-119 120-127 128-135 136-143 144-151 152-159 160-167 168-175 176-183 184-191 192-199 200-207 208-215 216-223 224-231 232-239 240-247 248-255	Macro Effect 13 Macro Effect 14 Macro Effect 15 Macro Effect 16 Macro Effect 17 Macro Effect 18 Macro Effect 19 Macro Effect 20 Macro Effect 21 Macro Effect 22 Macro Effect 23 Macro Effect 24 Macro Effect 25 Macro Effect 26 Macro Effect 27 Macro Effect 28 Macro Effect 29 Macro Effect 30 Macro Effect 31
	36		000 001-127 128 129-255	ZONE_MACRO SPEED Null Slow to Fast without Fade Null Slow to Fast with Fade
24	37		000-255	LINE_WHITE 0%→100%
		74	000-255	LINE_WHITE 1 0%→100%
		75	000-255	LINE_WHITE 2 0%→100%
		76	000-255	LINE_WHITE 3 0%→100%
		77	000-255	LINE_WHITE 4 0%→100%
		78	000-255	LINE_WHITE 5 0%→100%
		79	000-255	LINE_WHITE 6 0%→100%
		80	000-255	LINE_WHITE 7 0%→100%
		81	000-255	LINE_WHITE 8 0%→100%

		82	000-255	LINE_WHITE 9 0%→100%
		83	000-255	LINE_WHITE 10 0%→100%
		84	000-255	LINE_WHITE 11 0%→100%
		85	000-255	LINE_WHITE 12 0%→100%
		86	000-255	LINE_WHITE 13 0%→100%
		87	000-255	LINE_WHITE 14 0%→100%
		88	000-255	LINE_WHITE 15 0%→100%
		89	000-255	LINE_WHITE 16 0%→100%
		90	000-255	LINE_WHITE 17 0%→100%
		91	000-255	LINE_WHITE 18 0%→100%
		92	000-255	LINE_WHITE 19 0%→100%
		93	000-255	LINE_WHITE 20 0%→100%
		94	000-255	LINE_WHITE 21 0%→100%
		95	000-255	LINE_WHITE 22 0%→100%
		96	000-255	LINE_WHITE 23 0%→100%
		97	000-255	LINE_WHITE 24 0%→100%
	38		000-007 008-015 016-023 024-031 032-039 040-047 048-055 056-063 064-071	LINE_MACRO Null Macro Effect 1 Macro Effect 2 Macro Effect 3 Macro Effect 4 Macro Effect 5 Macro Effect 6 Macro Effect 7 Macro Effect 8

			072-079	Macro Effect 9
			080-087	Macro Effect 10
			088-095	Macro Effect 11
			096-103	Macro Effect 12
			104-111	Macro Effect 13
			112-119	Macro Effect 14
			120-127	Macro Effect 15
			128-135	Macro Effect 16
			136-143	Macro Effect 17
			144-151	Macro Effect 18
			152-159	Macro Effect 19
			160-167	Macro Effect 20
			168-175	Macro Effect 21
			176-183	Macro Effect 22
			184-191	Macro Effect 23
			192-199	Macro Effect 24
			200-207	Macro Effect 25
			208-215	Macro Effect 26
			216-223	Macro Effect 27
			224-231	Macro Effect 28
			232-239	Macro Effect 29
			240-247	Macro Effect 30
			248-255	Macro Effect 31
	39			LINE_MACRO SPEED
			000	Null
			001-127	Slow to Fast without Fade
			128	Null
			129-255	Slow to Fast with Fade

21+ Channels (Mode 4):

CHANNEL	VALUE	FUNCTION
Controlled by DMX		
1	000-255	PAN 0°→540°
2	000-255	PAN FINE
3	000-255	TILT 0°→450°
4	000-255	TILT FINE
5	000-127 128-189 190-193 194-255	PAN INFINITY Null Counter-Clockwise Rotation, Fast to Slow Stop Clockwise Rotation, Slow to Fast
6	000-127 128-189 190-193 194-255	TILT INFINITY Null Clockwise Rotation, Fast to Slow Stop Counter-Clockwise Rotation, Slow to Fast
7	000-255	PAN/TILT SPEED Fast to Slow
8	000-255	ZOOM Wide→Narrow
9	000-255	WASH_DIMMER 0%→100%
10	000-255	WASH_DIMMER FINE
11	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	WASH_STROBE Close Open Strobe from Slow to Fast Open Fast Open Slow Close from Slow to Fast Open Slow Open Fast Close from Slow to Fast Open Random Strobe from Slow to Fast Open
12	000-255	BEAM_DIMMER 0%→100%

13	000-255	BEAM_DIMMER FINE
14	000-007	BEAM_STROBE Close
	008-015	Open
	016-131	Strobe from Slow to Fast
	132-139	Open
	140-181	Fast Open Slow Close from Slow to Fast
	182-189	Open
	190-231	Slow Open Fast Close from Slow to Fast
	232-239	Open
	240-247	Random Strobe from Slow to Fast
	248-255	Open
15	000-255	ZONE_DIMMER 0%→100%
16	000-255	ZONE_DIMMER FINE
17	000-007	ZONE_STROBE Close
	008-015	Open
	016-131	Strobe from Slow to Fast
	132-139	Open
	140-181	Fast Open Slow Close from Slow to Fast
	182-189	Open
	190-231	Slow Open Fast Close from Slow to Fast
	232-239	Open
	240-247	Random Strobe from Slow to Fast
	248-255	Open
18	000-255	LINE_DIMMER 0%→100%
19	000-255	LINE_DIMMER FINE
20	000-007	LINE_STROBE Close
	008-015	Open
	016-131	Strobe from Slow to Fast
	132-139	Open
	140-181	Fast Open Slow Close from Slow to Fast
	182-189	Open
	190-231	Slow Open Fast Close from Slow to Fast
	232-239	Open
	240-247	Random Strobe from Slow to Fast
	248-255	Open
21		SPECIAL FUNCTION (To activate following functions,

	000-009	stop in DMX value for at least 3 seconds.)
	010-019	Null
	020-029	Zoom Mode: Short
	030-039	Zoom Mode: Long
	040-049	Dimmer Curve: Linear
	050-059	Dimmer Curve: Square law
	060-069	Dimmer Curve: Inv SQ law
	070-079	Dimmer Curve: S Curve
	080-089	Null
	090-099	Power Mode: Auto
	100-109	Power Mode: Quiet
	110-119	Led Frequency Setting Enable
	120-122	Led Frequency Setting Disable
	123	Null
	124	900Hz
	125	1000Hz
	126	1100Hz
	127	1200Hz
	128	1300Hz
	129	1400Hz
	130	1500Hz
	131	2500Hz
	132	4000Hz
	133	5000Hz
	134	6000Hz
	135	10KHz
	136	15KHz
	137	20KHz
	138-139	25KHz
	140-149	Null
	150-159	Pan/Tilt Reset
	160-199	Effect Reset
	200-209	Null
	210-219	Reset All
	220-229	Dimmer Speed: Fast
	230-239	Dimmer Speed: Smooth
	240-249	Line Power Mode: Off
	250-255	Line Power Mode: On
		No Function
Controlled by Art-Net		
1	000-255	WASH_RED 1 0%→100%
2	000-255	WASH_GREEN 1 0%→100%

3	000-255	WASH_BLUE 1 0%→100%
4	000-255	WASH_WHITE 1 0%→100%
5	000-255	WASH_RED 2 0%→100%
6	000-255	WASH_GREEN 2 0%→100%
7	000-255	WASH_BLUE 2 0%→100%
8	000-255	WASH_WHITE 2 0%→100%
9	000-255	WASH_RED 3 0%→100%
10	000-255	WASH_GREEN 3 0%→100%
11	000-255	WASH_BLUE 3 0%→100%
12	000-255	WASH_WHITE 3 0%→100%
13	000-255	WASH_RED 4 0%→100%
14	000-255	WASH_GREEN 4 0%→100%
15	000-255	WASH_BLUE 4 0%→100%
16	000-255	WASH_WHITE 4 0%→100%
17	000-255	BEAM_WHITE 1 0%→100%
18	000-255	BEAM_WHITE 2 0%→100%
19	000-255	BEAM_WHITE 3 0%→100%
20	000-255	BEAM_WHITE 4 0%→100%
21	000-255	BEAM_WHITE 5 0%→100%
22	000-255	BEAM_WHITE 6 0%→100%
23		BEAM_WHITE 7

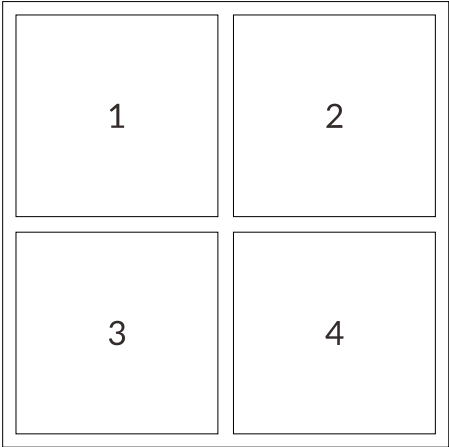
	000-255	0%→100%
24	000-255	BEAM_WHITE 8 0%→100%
25	000-255	BEAM_WHITE 9 0%→100%
26	000-255	ZONE_RED 1 0%→100%
27	000-255	ZONE_GREEN 1 0%→100%
28	000-255	ZONE_BLUE 1 0%→100%
29	000-255	ZONE_RED 2 0%→100%
30	000-255	ZONE_GREEN 2 0%→100%
31	000-255	ZONE_BLUE 2 0%→100%
32	000-255	ZONE_RED 3 0%→100%
33	000-255	ZONE_GREEN 3 0%→100%
34	000-255	ZONE_BLUE 3 0%→100%
35	000-255	ZONE_RED 4 0%→100%
36	000-255	ZONE_GREEN 4 0%→100%
37	000-255	ZONE_BLUE 4 0%→100%
38	000-255	ZONE_RED 5 0%→100%
39	000-255	ZONE_GREEN 5 0%→100%
40	000-255	ZONE_BLUE 5 0%→100%
41	000-255	ZONE_RED 6 0%→100%
42	000-255	ZONE_GREEN 6 0%→100%
43	000-255	ZONE_BLUE 6 0%→100%

44	000-255	ZONE_RED 7 0%→100%
45	000-255	ZONE_GREEN 7 0%→100%
46	000-255	ZONE_BLUE 7 0%→100%
47	000-255	ZONE_RED 8 0%→100%
48	000-255	ZONE_GREEN 8 0%→100%
49	000-255	ZONE_BLUE 8 0%→100%
50	000-255	ZONE_RED 9 0%→100%
51	000-255	ZONE_GREEN 9 0%→100%
52	000-255	ZONE_BLUE 9 0%→100%
53	000-255	LINE_WHITE 1 0%→100%
54	000-255	LINE_WHITE 2 0%→100%
55	000-255	LINE_WHITE 3 0%→100%
56	000-255	LINE_WHITE 4 0%→100%
57	000-255	LINE_WHITE 5 0%→100%
58	000-255	LINE_WHITE 6 0%→100%
59	000-255	LINE_WHITE 7 0%→100%
60	000-255	LINE_WHITE 8 0%→100%
61	000-255	LINE_WHITE 9 0%→100%
62	000-255	LINE_WHITE 10 0%→100%
63	000-255	LINE_WHITE 11 0%→100%
64		LINE_WHITE 12

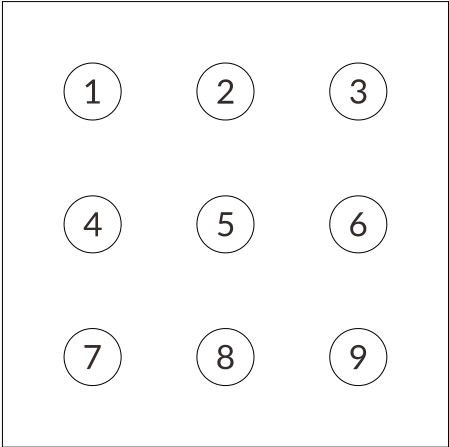
	000-255	0%→100%
65	000-255	LINE_WHITE 13 0%→100%
66	000-255	LINE_WHITE 14 0%→100%
67	000-255	LINE_WHITE 15 0%→100%
68	000-255	LINE_WHITE 16 0%→100%
69	000-255	LINE_WHITE 17 0%→100%
70	000-255	LINE_WHITE 18 0%→100%
71	000-255	LINE_WHITE 19 0%→100%
72	000-255	LINE_WHITE 20 0%→100%
73	000-255	LINE_WHITE 21 0%→100%
74	000-255	LINE_WHITE 22 0%→100%
75	000-255	LINE_WHITE 23 0%→100%
76	000-255	LINE_WHITE 24 0%→100%

LED PIXEL ZONES:

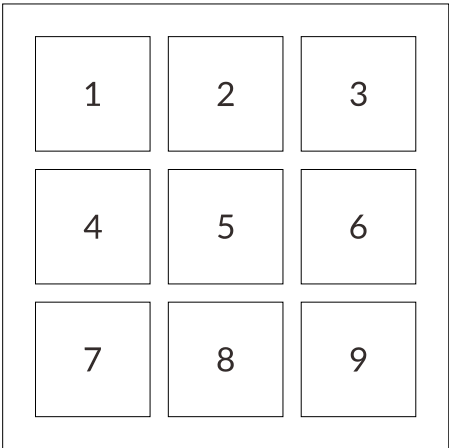
WASH R/G/B/W



BEAM WHITE



ZONE R/G/B



LINE WHITE

