

DMX Channel Index and FX Guide

JDC1



Covers software version 1.62



GLP® JDC1 DMX Channel Index and FX Guide

This document covers fixture software version 1.62

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DMX Mode 1 (Compressed Pro), 14 DMX Channels**Tilt, Beam shutter, special/control, Plates shutter, Plates grouped RGB**

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	Coarse Tilt (MSB)	0-185°	0-255	0-100%	127	Fade
2	Fine Tilt (LSB)	Coarse tilt + 0-1.2°	0-255	0-100%	127	Fade
3	Beam Intensity	Intensity 0-100%	0-255	0-100%	0	Fade
4	Beam Duration	Flash duration 7-650 ms	0-255	0-100%	255	Fade
5	Beam Rate	Flash rate 0.289-16.67 Hz	0-255	0-100%	255	Fade
6	Beam Shutter	No effect	0-36	0-14.0%	0	Snap
		Ramp up (= fade on, snap off)	37-40	14.5-15.5%		
		Ramp up random	41-44	16.0-17.0%		
		Ramp down	45-48	17.5-18.5%		
		Ramp down random	49-52	19.0-20.0%		
		Ramp up down	53-56	20.5-21.5%		
		Ramp up down random	57-60	22.0-23.0%		
		Random white beam	61-64	23.5-24.5%		
		Random single pixel of white beam	65-68	25.0-26.0%		
		Lightning	69-72	26.5-27.5%		
		Spikes (flash over low light)	73-76	28.0-29.0%		
		White beam, left to right	77-80	30.0-31.5%		
		White beam, left to right, random	81-84	32.0-33.0%		
		White beam, right to left	85-88	33.5-34.5%		
		White beam, right to left, random	89-92	35.0-36.0%		
		White beam, left to right, bounce	93-96	36.5-37.5%		
		White beam, left to right, bounce, random	97-100	38.0-39.0%		
		White beam, right to left, bounce	101-104	39.5-40.5%		
		White beam, right to left, bounce, random	105-108	41.0-42.5%		
		Zig, 6 steps, outer to center pixels	109-112	43.0-43.5%		
		Zig, 6 steps, outer to center pixels random	113-116	44.0-45.5%		
		Zag, 6 steps, center to outer pixels	117-120	46.0-47.0%		
		Zag, 6 steps, center to outer pixels, random	121-124	47.5-48.5%		
		Zigzag, 10 steps	125-128	49.0-50.0%		
		Zigzag, 10 steps, random	129-132	50.5-52.0%		
		No function	133-179	52.5-70.0%		
		Double flash	180-183	70.6-71.8%		
		Double flash, random	184-187	72.2-73.3%		
		Double flash, b-c (beam-color)	188-191	73.7-74.9%		
		Double flash, b-c, random	192-195	75.3-76.5%		
		Double flash, c-b (color-beam)	196-199	76.9-78.0%		
		Double flash, c-b, random	200-203	78.4-79.6%		
Triple flash	204-207	80.0-81.2%				
Triple flash, random	208-211	81.6-82.7%				
Triple flash, beam-color-beam	212-215	83.1-84.3%				
Triple flash, b-c-b, random	216-219	84.7-85.9%				
Triple flash, c-b-c	220-223	86.3-87.5%				
Triple flash, c-b-c, random	224-227	87.8-89.0%				

6	Beam Shutter (continued)	Quad flash	228-231	89.4-90.6%		
		Quad flash, random	232-235	91.0-92.2%		
		Quad flash, b-c-b-c	236-239	92.5-93.7%		
		Quad flash, b-c-b-c, random	240-243	94.1-95.3%		
		Quad flash, c-b-c-b	244-247	95.7-96.9%		
		Quad flash, c-b-c-b, random	248-251	97.3-98.4%		
		No function	252-255	98.5-100%		
7	Special / Control	No function	0	0%	0	Snap
		Beam Shutter effects and FX patterns offset:				
		10°	1	0.4%		
		20°	2	0.8%		
		30°	3	1.2%		
		40°	4	1.6%		
		50°	5	2.0%		
		60°	6	2.4%		
		70°	7	2.8%		
		80°	8	3.1%		
		90°	9	3.5%		
		100°	10	3.9%		
		110°	11	4.3%		
		120°	12	4.7%		
		130°	13	5.1%		
		140°	14	5.5%		
		150°	15	5.9%		
		160°	16	6.3%		
		170°	17	6.7%		
		180°	18	7.1%		
		190°	19	7.5%		
		200°	20	7.8%		
		210°	21	8.2%		
		220°	22	8.6%		
		230°	23	9.0%		
		240°	24	9.4%		
		250°	25	9.8%		
		260°	26	10.2%		
		270°	27	10.6%		
		280°	28	11.0%		
		290°	29	11.4%		
		300°	30	11.8%		
		310°	31	12.2%		
		320°	32	12.6%		
		330°	33	12.9%		
		340°	34	13.3%		
		350°	35	13.7%		
360°	36	14.1%				
No function	37-39	14.5-15.3%				

7	Special / Control (continued)	Position feedback on*	40-44	15.7-17.3%	
		Position feedback off*	45-49	17.7-19.2%	
		Barndoor on*	50-54	19.6-21.2%	
		Barndoor off*	55-59	21.6-23.1%	
		No function	60-61	23.5-23.9%	
		Tilt power on*	62-63	24.3-24.7%	
		Tilt power off*	64-65	25.1-25.5%	
		Tilt reset on*	66-67	25.9-26.3%	
		Tilt reset off*	68-69	26.7-27.1%	
		Normal tilt control*	70-74	27.5-29.0%	
		Inverse tilt control*	75-79	29.4-31.0%	
		Normal pixel numbering, plates 1+2	80-84	31.4-32.9%	
		Inverse pixel numbering, plates 1+2	85-89	33.3-34.9%	
		Normal pixel numbering, 2nd plate	90-94	35.3-36.9%	
		Inverse pixel numbering, 2nd plate	95-99	37.3-38.8%	
		PWM frequency:			
		582 Hz	100-102	39.2-40.0%	
		583 Hz	103-105	40.4-41.2%	
		584 Hz	106-107	41.6-42.0%	
		585 Hz	108-110	42.4-43.1%	
		586 Hz	111-112	43.5-43.9%	
		587 Hz	113-115	44.3-45.1%	
		588 Hz	116-118	45.5-46.3%	
		589 Hz	119-120	46.7-47.1%	
		590 Hz	121-123	47.5-48.2%	
		591 Hz	124-125	48.6-49.0%	
		592 Hz	126-128	49.4-50.2%	
		593 Hz	129-131	50.6-51.4%	
		594 Hz	132-133	51.8-52.2%	
		595 Hz	134-136	52.5-53.3%	
		596 Hz	137-138	53.7-54.1%	
		597 Hz	139-141	54.5-55.3%	
		598 Hz	142-144	55.7-56.5%	
		599 Hz	145-146	56.9-57.3%	
		600 Hz	147-149	57.6-58.4%	
		601 Hz	150-151	58.8-59.2%	
		602 Hz	152-154	59.6-60.4%	
		603 Hz	155-157	60.8-61.6%	
		604 Hz	158-159	62.0-62.4%	
		605 Hz	160-162	62.7-63.5%	
		606 Hz	163-164	63.9-64.3%	
		607 Hz	165-167	64.7-65.5%	
		608 Hz	168-170	65.9-66.7%	
		609 Hz	171-172	67.1-67.5%	
		610 Hz	173-175	67.8-68.6%	
611 Hz	176-177	69.0-69.4%			
612 Hz	178-180	69.8-70.6%			
613 Hz	181-183	71.0-71.8%			
614 Hz	184-185	72.2-72.5%			
615 Hz	186-188	72.9-73.7%			

7	Special /Control (continued)	616 Hz	189-190	74.1-74.5%		
		617 Hz	191-194	74.9-75.7%		
		618 Hz	194-194	76.1-76.1%		
		1200 Hz	195-197	76.5-77.3%		
		2400 Hz	198-200	77.6-78.4%		
		No function	201-209	79.0-82.0%		
		Flash percentage mode on*	210-214	82.5-84.0%		
		Flash percentage mode off*	215-219	84.5-85.0%		
		Dimmer flash mode on*	220-224	86.0-87.5%		
		Dimmer flash mode off*	225-229	88.0-90.0%		
		FX: plate color priority on*	230-234	90.5-91.5%		
		FX: plate color priority off*	235-239	92.0-93.5%		
		No function	220-247	94.0-97.0%		
		Reset (hold value for > 5 seconds)	248-255	98.0-100%		
8	Plate Intensity	Intensity 0-100%	0-255	0-100%	0	Fade
9	Plate Flash Duration	7-650 ms	0-255	0-100%	255	Fade
10	Plate Flash Rate	0.289-16.67 Hz	0-255	0-100%	255	Fade
11	Plate Shutter	No function	0	0%	0	Snap
		Plate Shutter effects and FX patterns offset:				
		10°	1	0.4%		
		20°	2	0.8%		
		30°	3	1.2%		
		40°	4	1.6%		
		50°	5	2.0%		
		60°	6	2.4%		
		70°	7	2.8%		
		80°	8	3.1%		
		90°	9	3.5%		
		100°	10	3.9%		
		110°	11	4.3%		
		120°	12	4.7%		
		130°	13	5.1%		
		140°	14	5.5%		
		150°	15	5.9%		
		160°	16	6.3%		
		170°	17	6.7%		
		180°	18	7.1%		
		190°	19	7.5%		
		200°	20	7.8%		
210°	21	8.2%				
220°	22	8.6%				

11	Plate Shutter (continued)	240°	24	9.4%		
		250°	25	9.8%		
		260°	26	10.2%		
		270°	27	10.6%		
		280°	28	11.0%		
		290°	29	11.4%		
		300°	30	11.8%		
		310°	31	12.2%		
		320°	32	12.6%		
		330°	33	12.9%		
		340°	34	13.3%		
		350°	35	13.7%		
		360°	36	14.1%		
		Ramp up (fade on, snap off)	37-40	14.5-15.5%		
		Ramp up, random	41-44	16.0-17.0%		
		Ramp down	45-48	17.5-18.5%		
		Ramp down, random	49-52	19.0-20.0%		
		Ramp up / down	53-56	20.5-21.5%		
		Ramp up / down, random	57-60	22.0-23.0%		
		Random white beam	61-64	23.5-24.5%		
		Random single pixel of the white beam	65-68	25.0-26.0%		
		Lightning	69-72	26.5-27.5%		
		Spikes (flash over low light)	73-76	28.0-29.0%		
		No function	77-179	29.5-70.0%		
		Double flash	180-191	70.6-74.9%		
		Double flash, random	192-203	75.3-79.6%		
		Triple flash	204-215	80.0-84.3%		
Triple flash, random	216-227	84.7-89.0%				
Quad flash	228-239	89.4-93.7%				
Quad flash, random	240-251	94.1-98.4%				
No effect	252-255	98.5-100%				
12	Plates Red	Plates red intensity 0-100%	0-255	0-100%	255	Fade
13	Plates Green	Plates green intensity 0-100%	0-255	0-100%	255	Fade
14	Plates Blue	Plates blue intensity 0-100%	0-255	0-100%	255	Fade

Commands marked with an asterisk * must be held for >3 seconds to apply.

DMX Mode 2 (Normal), 23 DMX Channels

Tilt, Beam shutter, special/control, Plates shutter, Plates grouped RGB, Plate and Beam FX, Plates background grouped RGB

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	Coarse Tilt (MSB)	0-185°	0-255	0-100%	127	Fade
2	Fine Tilt (LSB)	Coarse tilt + 0-1.2°	0-255	0-100%	127	Fade
3	Beam Intensity	Intensity 0-100%	0-255	0-100%	0	Fade
4	Beam Duration	Flash duration 7-650 ms	0-255	0-100%	255	Fade
5	Beam Rate	Flash rate 0.289-16.67 Hz	0-255	0-100%	255	Fade
6	Beam Shutter	No effect	0-36	0-14.0%	0	Snap
		Ramp up (= fade on, snap off)	37-40	14.5-15.5%		
		Ramp up random	41-44	16.0-17.0%		
		Ramp down	45-48	17.5-18.5%		
		Ramp down random	49-52	19.0-20.0%		
		Ramp up down	53-56	20.5-21.5%		
		Ramp up down random	57-60	22.0-23.0%		
		Random white beam	61-64	23.5-24.5%		
		Random single pixel of white beam	65-68	25.0-26.0%		
		Lightning	69-72	26.5-27.5%		
		Spikes (flash over low light)	73-76	28.0-29.0%		
		White beam, left to right	77-80	30.0-31.5%		
		White beam, left to right, random	81-84	32.0-33.0%		
		White beam, right to left	85-88	33.5-34.5%		
		White beam, right to left, random	89-92	35.0-36.0%		
		White beam, left to right, bounce	93-96	36.5-37.5%		
		White beam, left to right, bounce, random	97-100	38.0-39.0%		
		White beam, right to left, bounce	101-104	39.5-40.5%		
		White beam, right to left, bounce, random	105-108	41.0-42.5%		
		Zig, 6 steps, outer to center pixels	109-112	43.0-43.5%		
		Zig, 6 steps, outer to center pixels random	113-116	44.0-45.5%		
		Zag, 6 steps, center to outer pixels	117-120	46.0-47.0%		
		Zag, 6 steps, center to outer pixels, random	121-124	47.5-48.5%		
		Zigzag, 10 steps	125-128	49.0-50.0%		
		Zigzag, 10 steps, random	129-132	50.5-52.0%		
		No function	133-179	52.5-70.0%		
		Double flash	180-183	70.6-71.8%		
		Double flash, random	184-187	72.2-73.3%		
		Double flash, b-c (beam-color)	188-191	73.7-74.9%		
		Double flash, b-c, random	192-195	75.3-76.5%		
Double flash, c-b (color-beam)	196-199	76.9-78.0%				
Double flash, c-b, random	200-203	78.4-79.6%				
Triple flash	204-207	80.0-81.2%				
Triple flash, random	208-211	81.6-82.7%				
Triple flash, beam-color-beam	212-215	83.1-84.3%				
Triple flash, b-c-b, random	216-219	84.7-85.9%				
Triple flash, c-b-c	220-223	86.3-87.5%				
Triple flash, c-b-c, random	224-227	87.8-89.0%				

6	Beam Shutter (continued)	Quad flash	228-231	89.4-90.6%		
		Quad flash, random	232-235	91.0-92.2%		
		Quad flash, b-c-b-c	236-239	92.5-93.7%		
		Quad flash, b-c-b-c, random	240-243	94.1-95.3%		
		Quad flash, c-b-c-b	244-247	95.7-96.9%		
		Quad flash, c-b-c-b, random	248-251	97.3-98.4%		
		No function	252-255	98.5-100%		
7	Special / Control	No function	0	0%	0	Snap
		Beam Shutter effects and FX patterns offset:				
		10°	1	0.4%		
		20°	2	0.8%		
		30°	3	1.2%		
		40°	4	1.6%		
		50°	5	2.0%		
		60°	6	2.4%		
		70°	7	2.8%		
		80°	8	3.1%		
		90°	9	3.5%		
		100°	10	3.9%		
		110°	11	4.3%		
		120°	12	4.7%		
		130°	13	5.1%		
		140°	14	5.5%		
		150°	15	5.9%		
		160°	16	6.3%		
		170°	17	6.7%		
		180°	18	7.1%		
		190°	19	7.5%		
		200°	20	7.8%		
		210°	21	8.2%		
		220°	22	8.6%		
		230°	23	9.0%		
		240°	24	9.4%		
		250°	25	9.8%		
		260°	26	10.2%		
		270°	27	10.6%		
		280°	28	11.0%		
		290°	29	11.4%		
		300°	30	11.8%		
		310°	31	12.2%		
		320°	32	12.6%		
		330°	33	12.9%		
		340°	34	13.3%		
		350°	35	13.7%		
360°	36	14.1%				
No function	37-39	14.5-15.3%				

7	Special / Control (continued)	Position feedback on*	40-44	15.7-17.3%	
		Position feedback off*	45-49	17.7-19.2%	
		Barndoor on*	50-54	19.6-21.2%	
		Barndoor off*	55-59	21.6-23.1%	
		No function	60-61	23.5-23.9%	
		Tilt power on*	62-63	24.3-24.7%	
		Tilt power off*	64-65	25.1-25.5%	
		Tilt reset on*	66-67	25.9-26.3%	
		Tilt reset off*	68-69	26.7-27.1%	
		Normal tilt control*	70-74	27.5-29.0%	
		Inverse tilt control*	75-79	29.4-31.0%	
		Normal pixel numbering, plates 1+2	80-84	31.4-32.9%	
		Inverse pixel numbering, plates 1+2	85-89	33.3-34.9%	
		Normal pixel numbering, 2nd plate	90-94	35.3-36.9%	
		Inverse pixel numbering, 2nd plate	95-99	37.3-38.8%	
		PWM frequency:			
		582 Hz	100-102	39.2-40.0%	
		583 Hz	103-105	40.4-41.2%	
		584 Hz	106-107	41.6-42.0%	
		585 Hz	108-110	42.4-43.1%	
		586 Hz	111-112	43.5-43.9%	
		587 Hz	113-115	44.3-45.1%	
		588 Hz	116-118	45.5-46.3%	
		589 Hz	119-120	46.7-47.1%	
		590 Hz	121-123	47.5-48.2%	
		591 Hz	124-125	48.6-49.0%	
		592 Hz	126-128	49.4-50.2%	
		593 Hz	129-131	50.6-51.4%	
		594 Hz	132-133	51.8-52.2%	
		595 Hz	134-136	52.5-53.3%	
		596 Hz	137-138	53.7-54.1%	
		597 Hz	139-141	54.5-55.3%	
		598 Hz	142-144	55.7-56.5%	
		599 Hz	145-146	56.9-57.3%	
		600 Hz	147-149	57.6-58.4%	
		601 Hz	150-151	58.8-59.2%	
		602 Hz	152-154	59.6-60.4%	
		603 Hz	155-157	60.8-61.6%	
		604 Hz	158-159	62.0-62.4%	
		605 Hz	160-162	62.7-63.5%	
		606 Hz	163-164	63.9-64.3%	
		607 Hz	165-167	64.7-65.5%	
		608 Hz	168-170	65.9-66.7%	
		609 Hz	171-172	67.1-67.5%	
		610 Hz	173-175	67.8-68.6%	
611 Hz	176-177	69.0-69.4%			
612 Hz	178-180	69.8-70.6%			
613 Hz	181-183	71.0-71.8%			
614 Hz	184-185	72.2-72.5%			
615 Hz	186-188	72.9-73.7%			

7	Special /Control (continued)	616 Hz	189-190	74.1-74.5%		
		617 Hz	191-194	74.9-75.7%		
		618 Hz	194-194	76.1-76.1%		
		1200 Hz	195-197	76.5-77.3%		
		2400 Hz	198-200	77.6-78.4%		
		No function	201-209	79.0-82.0%		
		Flash percentage mode on*	210-214	82.5-84.0%		
		Flash percentage mode off*	215-219	84.5-85.0%		
		Dimmer flash mode on*	220-224	86.0-87.5%		
		Dimmer flash mode off*	225-229	88.0-90.0%		
		FX: plate color priority on*	230-234	90.5-91.5%		
		FX: plate color priority off*	235-239	92.0-93.5%		
		No function	220-247	94.0-97.0%		
		Reset (hold value for > 5 seconds)	248-255	98.0-100%		
8	Plate Intensity	Intensity 0-100%	0-255	0-100%	0	Fade
9	Plate Flash Duration	7-650 ms	0-255	0-100%	255	Fade
10	Plate Flash Rate	0.289-16.67 Hz	0-255	0-100%	255	Fade
11	Plate Shutter	No function	0	0%	0	Snap
		Plate Shutter effects and FX patterns offset:				
		10°	1	0.4%		
		20°	2	0.8%		
		30°	3	1.2%		
		40°	4	1.6%		
		50°	5	2.0%		
		60°	6	2.4%		
		70°	7	2.8%		
		80°	8	3.1%		
		90°	9	3.5%		
		100°	10	3.9%		
		110°	11	4.3%		
		120°	12	4.7%		
		130°	13	5.1%		
		140°	14	5.5%		
		150°	15	5.9%		
		160°	16	6.3%		
		170°	17	6.7%		
		180°	18	7.1%		
		190°	19	7.5%		
		200°	20	7.8%		
210°	21	8.2%				
220°	22	8.6%				

11	Plate Shutter (continued)	240°	24	9.4%		
		250°	25	9.8%		
		260°	26	10.2%		
		270°	27	10.6%		
		280°	28	11.0%		
		290°	29	11.4%		
		300°	30	11.8%		
		310°	31	12.2%		
		320°	32	12.6%		
		330°	33	12.9%		
		340°	34	13.3%		
		350°	35	13.7%		
		360°	36	14.1%		
		Ramp up (fade on, snap off)	37-40	14.5-15.5%		
		Ramp up, random	41-44	16.0-17.0%		
		Ramp down	45-48	17.5-18.5%		
		Ramp down, random	49-52	19.0-20.0%		
		Ramp up / down	53-56	20.5-21.5%		
		Ramp up / down, random	57-60	22.0-23.0%		
		Random white beam	61-64	23.5-24.5%		
		Random single pixel of the white beam	65-68	25.0-26.0%		
		Lightning	69-72	26.5-27.5%		
		Spikes (flash over low light)	73-76	28.0-29.0%		
		No function	77-179	29.5-70.0%		
		Double flash	180-191	70.6-74.9%		
		Double flash, random	192-203	75.3-79.6%		
		Triple flash	204-215	80.0-84.3%		
		Triple flash, random	216-227	84.7-89.0%		
Quad flash	228-239	89.4-93.7%				
Quad flash, random	240-251	94.1-98.4%				
No effect	252-255	98.5-100%				
12	Plates Red	Plates red intensity 0-100%	0-255	0-100%	255	Fade
13	Plates Green	Plates green intensity 0-100%	0-255	0-100%	255	Fade
14	Plates Blue	Plates blue intensity 0-100%	0-255	0-100%	255	Fade
15	FX Crossfade	Crossfade duration snap - slow	0-255	0-100%	0	Fade
16	Plate FX Movement	Plate FX movement speed slow - fast	0-255	0-100%	0	Snap
17	Plate FX Select	Plate FX pattern select	0-255	0-100%	0	Snap
18	Beam FX Movement	Beam FX movement speed slow - fast	0-255	0-100%	0	Snap
19	Beam FX Select	Beam FX pattern select	0-255	0-100%	0	Snap
20	Plates Master	FX background intensity 0-100%	0-255	0-100%	0	Fade
21	Plates Background Red	FX background intensity red 0-100%	0-255	0-100%	255	Fade
22	Plates Background Green	FX background intensity green 0-100%	0-255	0-100%	255	Fade
23	Plates Background Blue	FX background intensity blue 0-100%	0-255	0-100%	255	Fade

Commands marked with an asterisk * must be held for >3 seconds to apply.

DMX Mode 3 (SPix), 68 DMX Channels

Tilt, Beam shutter, special/control, Plates shutter, Plates grouped RGB, Plate and Beam FX, Plate background individual pixel RGB, Beam individual pixel intensity

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	Coarse Tilt (MSB)	0-185°	0-255	0-100%	127	Fade
2	Fine Tilt (LSB)	Coarse tilt + 0-1.2°	0-255	0-100%	127	Fade
3	Beam Intensity	Intensity 0-100%	0-255	0-100%	0	Fade
4	Beam Duration	Flash duration 7-650 ms	0-255	0-100%	255	Fade
5	Beam Rate	Flash rate 0.289-16.67 Hz	0-255	0-100%	255	Fade
6	Beam Shutter	No effect	0-36	0-14.0%	0	Snap
		Ramp up (= fade on, snap off)	37-40	14.5-15.5%		
		Ramp up random	41-44	16.0-17.0%		
		Ramp down	45-48	17.5-18.5%		
		Ramp down random	49-52	19.0-20.0%		
		Ramp up down	53-56	20.5-21.5%		
		Ramp up down random	57-60	22.0-23.0%		
		Random white beam	61-64	23.5-24.5%		
		Random single pixel of white beam	65-68	25.0-26.0%		
		Lightning	69-72	26.5-27.5%		
		Spikes (flash over low light)	73-76	28.0-29.0%		
		White beam, left to right	77-80	30.0-31.5%		
		White beam, left to right, random	81-84	32.0-33.0%		
		White beam, right to left	85-88	33.5-34.5%		
		White beam, right to left, random	89-92	35.0-36.0%		
		White beam, left to right, bounce	93-96	36.5-37.5%		
		White beam, left to right, bounce, random	97-100	38.0-39.0%		
		White beam, right to left, bounce	101-104	39.5-40.5%		
		White beam, right to left, bounce, random	105-108	41.0-42.5%		
		Zig, 6 steps, outer to center pixels	109-112	43.0-43.5%		
		Zig, 6 steps, outer to center pixels random	113-116	44.0-45.5%		
		Zag, 6 steps, center to outer pixels	117-120	46.0-47.0%		
		Zag, 6 steps, center to outer pixels, random	121-124	47.5-48.5%		
		Zigzag, 10 steps	125-128	49.0-50.0%		
		Zigzag, 10 steps, random	129-132	50.5-52.0%		
		No function	133-179	52.5-70.0%		
		Double flash	180-183	70.6-71.8%		
		Double flash, random	184-187	72.2-73.3%		
		Double flash, b-c (beam-color)	188-191	73.7-74.9%		
		Double flash, b-c, random	192-195	75.3-76.5%		
		Double flash, c-b (color-beam)	196-199	76.9-78.0%		
		Double flash, c-b, random	200-203	78.4-79.6%		
Triple flash	204-207	80.0-81.2%				
Triple flash, random	208-211	81.6-82.7%				
Triple flash, beam-color-beam	212-215	83.1-84.3%				
Triple flash, b-c-b, random	216-219	84.7-85.9%				
Triple flash, c-b-c	220-223	86.3-87.5%				
Triple flash, c-b-c, random	224-227	87.8-89.0%				

6	Beam Shutter (continued)	Quad flash	228-231	89.4-90.6%		
		Quad flash, random	232-235	91.0-92.2%		
		Quad flash, b-c-b-c	236-239	92.5-93.7%		
		Quad flash, b-c-b-c, random	240-243	94.1-95.3%		
		Quad flash, c-b-c-b	244-247	95.7-96.9%		
		Quad flash, c-b-c-b, random	248-251	97.3-98.4%		
		No function	252-255	98.5-100%		
7	Special / Control	No function	0	0%	0	Snap
		Beam Shutter effects and FX patterns offset:				
		10°	1	0.4%		
		20°	2	0.8%		
		30°	3	1.2%		
		40°	4	1.6%		
		50°	5	2.0%		
		60°	6	2.4%		
		70°	7	2.8%		
		80°	8	3.1%		
		90°	9	3.5%		
		100°	10	3.9%		
		110°	11	4.3%		
		120°	12	4.7%		
		130°	13	5.1%		
		140°	14	5.5%		
		150°	15	5.9%		
		160°	16	6.3%		
		170°	17	6.7%		
		180°	18	7.1%		
		190°	19	7.5%		
		200°	20	7.8%		
		210°	21	8.2%		
		220°	22	8.6%		
		230°	23	9.0%		
		240°	24	9.4%		
		250°	25	9.8%		
		260°	26	10.2%		
		270°	27	10.6%		
		280°	28	11.0%		
		290°	29	11.4%		
		300°	30	11.8%		
		310°	31	12.2%		
		320°	32	12.6%		
		330°	33	12.9%		
		340°	34	13.3%		
		350°	35	13.7%		
360°	36	14.1%				
No function	37-39	14.5-15.3%				

7	Special / Control (continued)	Position feedback on*	40-44	15.7-17.3%	
		Position feedback off*	45-49	17.7-19.2%	
		Barndoor on*	50-54	19.6-21.2%	
		Barndoor off*	55-59	21.6-23.1%	
		No function	60-61	23.5-23.9%	
		Tilt power on*	62-63	24.3-24.7%	
		Tilt power off*	64-65	25.1-25.5%	
		Tilt reset on*	66-67	25.9-26.3%	
		Tilt reset off*	68-69	26.7-27.1%	
		Normal tilt control*	70-74	27.5-29.0%	
		Inverse tilt control*	75-79	29.4-31.0%	
		Normal pixel numbering, plates 1+2	80-84	31.4-32.9%	
		Inverse pixel numbering, plates 1+2	85-89	33.3-34.9%	
		Normal pixel numbering, 2nd plate	90-94	35.3-36.9%	
		Inverse pixel numbering, 2nd plate	95-99	37.3-38.8%	
		PWM frequency:			
		582 Hz	100-102	39.2-40.0%	
		583 Hz	103-105	40.4-41.2%	
		584 Hz	106-107	41.6-42.0%	
		585 Hz	108-110	42.4-43.1%	
		586 Hz	111-112	43.5-43.9%	
		587 Hz	113-115	44.3-45.1%	
		588 Hz	116-118	45.5-46.3%	
		589 Hz	119-120	46.7-47.1%	
		590 Hz	121-123	47.5-48.2%	
		591 Hz	124-125	48.6-49.0%	
		592 Hz	126-128	49.4-50.2%	
		593 Hz	129-131	50.6-51.4%	
		594 Hz	132-133	51.8-52.2%	
		595 Hz	134-136	52.5-53.3%	
		596 Hz	137-138	53.7-54.1%	
		597 Hz	139-141	54.5-55.3%	
		598 Hz	142-144	55.7-56.5%	
		599 Hz	145-146	56.9-57.3%	
		600 Hz	147-149	57.6-58.4%	
		601 Hz	150-151	58.8-59.2%	
		602 Hz	152-154	59.6-60.4%	
		603 Hz	155-157	60.8-61.6%	
		604 Hz	158-159	62.0-62.4%	
		605 Hz	160-162	62.7-63.5%	
		606 Hz	163-164	63.9-64.3%	
		607 Hz	165-167	64.7-65.5%	
		608 Hz	168-170	65.9-66.7%	
		609 Hz	171-172	67.1-67.5%	
		610 Hz	173-175	67.8-68.6%	
611 Hz	176-177	69.0-69.4%			
612 Hz	178-180	69.8-70.6%			
613 Hz	181-183	71.0-71.8%			
614 Hz	184-185	72.2-72.5%			
615 Hz	186-188	72.9-73.7%			

7	Special /Control (continued)	616 Hz	189-190	74.1-74.5%		
		617 Hz	191-194	74.9-75.7%		
		618 Hz	194-194	76.1-76.1%		
		1200 Hz	195-197	76.5-77.3%		
		2400 Hz	198-200	77.6-78.4%		
		No function	201-209	79.0-82.0%		
		Flash percentage mode on*	210-214	82.5-84.0%		
		Flash percentage mode off*	215-219	84.5-85.0%		
		Dimmer flash mode on*	220-224	86.0-87.5%		
		Dimmer flash mode off*	225-229	88.0-90.0%		
		FX: plate color priority on*	230-234	90.5-91.5%		
		FX: plate color priority off*	235-239	92.0-93.5%		
		No function	220-247	94.0-97.0%		
		Reset (hold value for > 5 seconds)	248-255	98.0-100%		
8	Plate Intensity	Intensity 0-100%	0-255	0-100%	0	Fade
9	Plate Flash Duration	7-650 ms	0-255	0-100%	255	Fade
10	Plate Flash Rate	0.289-16.67 Hz	0-255	0-100%	255	Fade
11	Plate Shutter	No function	0	0%	0	Snap
		Plate Shutter effects and FX patterns offset:				
		10°	1	0.4%		
		20°	2	0.8%		
		30°	3	1.2%		
		40°	4	1.6%		
		50°	5	2.0%		
		60°	6	2.4%		
		70°	7	2.8%		
		80°	8	3.1%		
		90°	9	3.5%		
		100°	10	3.9%		
		110°	11	4.3%		
		120°	12	4.7%		
		130°	13	5.1%		
		140°	14	5.5%		
		150°	15	5.9%		
		160°	16	6.3%		
		170°	17	6.7%		
		180°	18	7.1%		
		190°	19	7.5%		
		200°	20	7.8%		
210°	21	8.2%				
220°	22	8.6%				

11	Plate Shutter (continued)	240°	24	9.4%		
		250°	25	9.8%		
		260°	26	10.2%		
		270°	27	10.6%		
		280°	28	11.0%		
		290°	29	11.4%		
		300°	30	11.8%		
		310°	31	12.2%		
		320°	32	12.6%		
		330°	33	12.9%		
		340°	34	13.3%		
		350°	35	13.7%		
		360°	36	14.1%		
		Ramp up (fade on, snap off)	37-40	14.5-15.5%		
		Ramp up, random	41-44	16.0-17.0%		
		Ramp down	45-48	17.5-18.5%		
		Ramp down, random	49-52	19.0-20.0%		
		Ramp up / down	53-56	20.5-21.5%		
		Ramp up / down, random	57-60	22.0-23.0%		
		Random white beam	61-64	23.5-24.5%		
		Random single pixel of the white beam	65-68	25.0-26.0%		
		Lightning	69-72	26.5-27.5%		
		Spikes (flash over low light)	73-76	28.0-29.0%		
		No function	77-179	29.5-70.0%		
		Double flash	180-191	70.6-74.9%		
		Double flash, random	192-203	75.3-79.6%		
		Triple flash	204-215	80.0-84.3%		
Triple flash, random	216-227	84.7-89.0%				
Quad flash	228-239	89.4-93.7%				
Quad flash, random	240-251	94.1-98.4%				
No effect	252-255	98.5-100%				
12	Plates Red	Plates red intensity 0-100%	0-255	0-100%	255	Fade
13	Plates Green	Plates green intensity 0-100%	0-255	0-100%	255	Fade
14	Plates Blue	Plates blue intensity 0-100%	0-255	0-100%	255	Fade
15	FX Crossfade	Crossfade duration snap - slow	0-255	0-100%	???	Fade
16	Plate FX Movement	Plate FX movement speed slow - fast	0-255	0-100%	???	Fade
17	Plate FX Select	Plate FX pattern select	0-255	0-100%	???	Snap
18	Beam FX Movement	Beam FX movement speed slow - fast	0-255	0-100%	???	Fade
19	Beam FX Select	Beam FX pattern select	0-255	0-100%	???	Snap
20	Plate Master	FX background intensity 0-100%	0-255	0-100%	???	Fade
21	Plate Background Pixel 1	Red	0-100%	0-255	255	Fade
22		Green	0-100%	0-255	255	Fade
23		Blue	0-100%	0-255	255	Fade
24	Plate Background Pixel 2	Red	0-100%	0-255	255	Fade
25		Green	0-100%	0-255	255	Fade
26		Blue	0-100%	0-255	255	Fade
27	Plate Background Pixel 3	Red	0-100%	0-255	255	Fade
28		Green	0-100%	0-255	255	Fade
29		Blue	0-100%	0-255	255	Fade

30		Red	0-100%	0-255	255	Fade
31	Plate Background Pixel 4	Green	0-100%	0-255	255	Fade
32		Blue	0-100%	0-255	255	Fade
33		Red	0-100%	0-255	255	Fade
34	Plate Background Pixel 5	Green	0-100%	0-255	255	Fade
35		Blue	0-100%	0-255	255	Fade
36		Red	0-100%	0-255	255	Fade
37	Plate Background Pixel 6	Green	0-100%	0-255	255	Fade
38		Blue	0-100%	0-255	255	Fade
39		Red	0-100%	0-255	255	Fade
40	Plate Background Pixel 7	Green	0-100%	0-255	255	Fade
41		Blue	0-100%	0-255	255	Fade
42		Red	0-100%	0-255	255	Fade
43	Plate Background Pixel 8	Green	0-100%	0-255	255	Fade
44		Blue	0-100%	0-255	255	Fade
45		Red	0-100%	0-255	255	Fade
46	Plate Background Pixel 9	Green	0-100%	0-255	255	Fade
47		Blue	0-100%	0-255	255	Fade
48		Red	0-100%	0-255	255	Fade
49	Plate Background Pixel 10	Green	0-100%	0-255	255	Fade
50		Blue	0-100%	0-255	255	Fade
51		Red	0-100%	0-255	255	Fade
52	Plate Background Pixel 11	Green	0-100%	0-255	255	Fade
53		Blue	0-100%	0-255	255	Fade
54		Red	0-100%	0-255	255	Fade
55	Plate Background Pixel 12	Green	0-100%	0-255	255	Fade
56		Blue	0-100%	0-255	255	Fade
57		Beam Pixels Intensity	Pixel 1	0-100%	0-255	0
58	Pixel 2		0-100%	0-255	0	Fade
59	Pixel 3		0-100%	0-255	0	Fade
60	Pixel 4		0-100%	0-255	0	Fade
61	Pixel 5		0-100%	0-255	0	Fade
62	Pixel 6		0-100%	0-255	0	Fade
63	Pixel 7		0-100%	0-255	0	Fade
64	Pixel 8		0-100%	0-255	0	Fade
65	Pixel 9		0-100%	0-255	0	Fade
66	Pixel 10		0-100%	0-255	0	Fade
67	Pixel 11		0-100%	0-255	0	Fade
68	Pixel 12		0-100%	0-255	0	Fade

Commands marked with an asterisk * must be held for >3 seconds to apply.

DMX Mode 4 (SPix Pro), 62 DMX Channels

Tilt, Beam shutter, special/control, Plates shutter, Plates grouped RGB, Plate individual pixel RGB, Beam individual pixel intensity

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	Coarse Tilt (MSB)	0-185°	0-255	0-100%	127	Fade
2	Fine Tilt (LSB)	Coarse tilt + 0-1.2°	0-255	0-100%	127	Fade
3	Beam Intensity	Intensity 0-100%	0-255	0-100%	0	Fade
4	Beam Duration	Flash duration 7-650 ms	0-255	0-100%	255	Fade
5	Beam Rate	Flash rate 0.289-16.67 Hz	0-255	0-100%	255	Fade
6	Beam Shutter	No effect	0-36	0-14.0%	0	Snap
		Ramp up (= fade on, snap off)	37-40	14.5-15.5%		
		Ramp up random	41-44	16.0-17.0%		
		Ramp down	45-48	17.5-18.5%		
		Ramp down random	49-52	19.0-20.0%		
		Ramp up down	53-56	20.5-21.5%		
		Ramp up down random	57-60	22.0-23.0%		
		Random white beam	61-64	23.5-24.5%		
		Random single pixel of white beam	65-68	25.0-26.0%		
		Lightning	69-72	26.5-27.5%		
		Spikes (flash over low light)	73-76	28.0-29.0%		
		White beam, left to right	77-80	30.0-31.5%		
		White beam, left to right, random	81-84	32.0-33.0%		
		White beam, right to left	85-88	33.5-34.5%		
		White beam, right to left, random	89-92	35.0-36.0%		
		White beam, left to right, bounce	93-96	36.5-37.5%		
		White beam, left to right, bounce, random	97-100	38.0-39.0%		
		White beam, right to left, bounce	101-104	39.5-40.5%		
		White beam, right to left, bounce, random	105-108	41.0-42.5%		
		Zig, 6 steps, outer to center pixels	109-112	43.0-43.5%		
		Zig, 6 steps, outer to center pixels random	113-116	44.0-45.5%		
		Zag, 6 steps, center to outer pixels	117-120	46.0-47.0%		
		Zag, 6 steps, center to outer pixels, random	121-124	47.5-48.5%		
		Zigzag, 10 steps	125-128	49.0-50.0%		
		Zigzag, 10 steps, random	129-132	50.5-52.0%		
		No function	133-179	52.5-70.0%		
		Double flash	180-183	70.6-71.8%		
		Double flash, random	184-187	72.2-73.3%		
		Double flash, b-c (beam-color)	188-191	73.7-74.9%		
		Double flash, b-c, random	192-195	75.3-76.5%		
		Double flash, c-b (color-beam)	196-199	76.9-78.0%		
		Double flash, c-b, random	200-203	78.4-79.6%		
Triple flash	204-207	80.0-81.2%				
Triple flash, random	208-211	81.6-82.7%				
Triple flash, beam-color-beam	212-215	83.1-84.3%				
Triple flash, b-c-b, random	216-219	84.7-85.9%				
Triple flash, c-b-c	220-223	86.3-87.5%				
Triple flash, c-b-c, random	224-227	87.8-89.0%				

6	Beam Shutter (continued)	Quad flash	228-231	89.4-90.6%		
		Quad flash, random	232-235	91.0-92.2%		
		Quad flash, b-c-b-c	236-239	92.5-93.7%		
		Quad flash, b-c-b-c, random	240-243	94.1-95.3%		
		Quad flash, c-b-c-b	244-247	95.7-96.9%		
		Quad flash, c-b-c-b, random	248-251	97.3-98.4%		
		No function	252-255	98.5-100%		
7	Special / Control	No function	0	0%	0	Snap
		Beam Shutter effects and FX patterns offset:				
		10°	1	0.4%		
		20°	2	0.8%		
		30°	3	1.2%		
		40°	4	1.6%		
		50°	5	2.0%		
		60°	6	2.4%		
		70°	7	2.8%		
		80°	8	3.1%		
		90°	9	3.5%		
		100°	10	3.9%		
		110°	11	4.3%		
		120°	12	4.7%		
		130°	13	5.1%		
		140°	14	5.5%		
		150°	15	5.9%		
		160°	16	6.3%		
		170°	17	6.7%		
		180°	18	7.1%		
		190°	19	7.5%		
		200°	20	7.8%		
		210°	21	8.2%		
		220°	22	8.6%		
		230°	23	9.0%		
		240°	24	9.4%		
		250°	25	9.8%		
		260°	26	10.2%		
		270°	27	10.6%		
		280°	28	11.0%		
		290°	29	11.4%		
		300°	30	11.8%		
		310°	31	12.2%		
		320°	32	12.6%		
		330°	33	12.9%		
		340°	34	13.3%		
		350°	35	13.7%		
360°	36	14.1%				
No function	37-39	14.5-15.3%				

7	Special / Control (continued)	Position feedback on*	40-44	15.7-17.3%	
		Position feedback off*	45-49	17.7-19.2%	
		Barndoor on*	50-54	19.6-21.2%	
		Barndoor off*	55-59	21.6-23.1%	
		No function	60-61	23.5-23.9%	
		Tilt power on*	62-63	24.3-24.7%	
		Tilt power off*	64-65	25.1-25.5%	
		Tilt reset on*	66-67	25.9-26.3%	
		Tilt reset off*	68-69	26.7-27.1%	
		Normal tilt control*	70-74	27.5-29.0%	
		Inverse tilt control*	75-79	29.4-31.0%	
		Normal pixel numbering, plates 1+2	80-84	31.4-32.9%	
		Inverse pixel numbering, plates 1+2	85-89	33.3-34.9%	
		Normal pixel numbering, 2nd plate	90-94	35.3-36.9%	
		Inverse pixel numbering, 2nd plate	95-99	37.3-38.8%	
		PWM frequency:			
		582 Hz	100-102	39.2-40.0%	
		583 Hz	103-105	40.4-41.2%	
		584 Hz	106-107	41.6-42.0%	
		585 Hz	108-110	42.4-43.1%	
		586 Hz	111-112	43.5-43.9%	
		587 Hz	113-115	44.3-45.1%	
		588 Hz	116-118	45.5-46.3%	
		589 Hz	119-120	46.7-47.1%	
		590 Hz	121-123	47.5-48.2%	
		591 Hz	124-125	48.6-49.0%	
		592 Hz	126-128	49.4-50.2%	
		593 Hz	129-131	50.6-51.4%	
		594 Hz	132-133	51.8-52.2%	
		595 Hz	134-136	52.5-53.3%	
		596 Hz	137-138	53.7-54.1%	
		597 Hz	139-141	54.5-55.3%	
		598 Hz	142-144	55.7-56.5%	
		599 Hz	145-146	56.9-57.3%	
		600 Hz	147-149	57.6-58.4%	
		601 Hz	150-151	58.8-59.2%	
		602 Hz	152-154	59.6-60.4%	
		603 Hz	155-157	60.8-61.6%	
		604 Hz	158-159	62.0-62.4%	
		605 Hz	160-162	62.7-63.5%	
		606 Hz	163-164	63.9-64.3%	
		607 Hz	165-167	64.7-65.5%	
		608 Hz	168-170	65.9-66.7%	
		609 Hz	171-172	67.1-67.5%	
		610 Hz	173-175	67.8-68.6%	
611 Hz	176-177	69.0-69.4%			
612 Hz	178-180	69.8-70.6%			
613 Hz	181-183	71.0-71.8%			
614 Hz	184-185	72.2-72.5%			
615 Hz	186-188	72.9-73.7%			

7	Special /Control (continued)	616 Hz	189-190	74.1-74.5%			
		617 Hz	191-194	74.9-75.7%			
		618 Hz	194-194	76.1-76.1%			
		1200 Hz	195-197	76.5-77.3%			
		2400 Hz	198-200	77.6-78.4%			
		No function	201-209	79.0-82.0%			
		Flash percentage mode on*	210-214	82.5-84.0%			
		Flash percentage mode off*	215-219	84.5-85.0%			
		Dimmer flash mode on*	220-224	86.0-87.5%			
		Dimmer flash mode off*	225-229	88.0-90.0%			
		FX: plate color priority on*	230-234	90.5-91.5%			
		FX: plate color priority off*	235-239	92.0-93.5%			
		No function	220-247	94.0-97.0%			
		Reset (hold value for > 5 seconds)	248-255	98.0-100%			
8	Plate Intensity	Intensity 0-100%	0-255	0-100%	0	Fade	
9	Plate Flash Duration	7-650 ms	0-255	0-100%	255	Fade	
10	Plate Flash Rate	0.289-16.67 Hz	0-255	0-100%	255	Fade	
11	Plate Shutter	No function	0	0%	0	Snap	
		Plate Shutter effects and FX patterns offset:					
		10°	1	0.4%			
		20°	2	0.8%			
		30°	3	1.2%			
		40°	4	1.6%			
		50°	5	2.0%			
		60°	6	2.4%			
		70°	7	2.8%			
		80°	8	3.1%			
		90°	9	3.5%			
		100°	10	3.9%			
		110°	11	4.3%			
		120°	12	4.7%			
		130°	13	5.1%			
		140°	14	5.5%			
		150°	15	5.9%			
		160°	16	6.3%			
		170°	17	6.7%			
		180°	18	7.1%			
		190°	19	7.5%			
		200°	20	7.8%			
210°	21	8.2%					
220°	22	8.6%					

11	Plate Shutter (continued)	240°	24	9.4%		
		250°	25	9.8%		
		260°	26	10.2%		
		270°	27	10.6%		
		280°	28	11.0%		
		290°	29	11.4%		
		300°	30	11.8%		
		310°	31	12.2%		
		320°	32	12.6%		
		330°	33	12.9%		
		340°	34	13.3%		
		350°	35	13.7%		
		360°	36	14.1%		
		Ramp up (fade on, snap off)	37-40	14.5-15.5%		
		Ramp up, random	41-44	16.0-17.0%		
		Ramp down	45-48	17.5-18.5%		
		Ramp down, random	49-52	19.0-20.0%		
		Ramp up / down	53-56	20.5-21.5%		
		Ramp up / down, random	57-60	22.0-23.0%		
		Random white beam	61-64	23.5-24.5%		
		Random single pixel of the white beam	65-68	25.0-26.0%		
		Lightning	69-72	26.5-27.5%		
		Spikes (flash over low light)	73-76	28.0-29.0%		
		No function	77-179	29.5-70.0%		
		Double flash	180-191	70.6-74.9%		
		Double flash, random	192-203	75.3-79.6%		
Triple flash	204-215	80.0-84.3%				
Triple flash, random	216-227	84.7-89.0%				
Quad flash	228-239	89.4-93.7%				
Quad flash, random	240-251	94.1-98.4%				
No effect	252-255	98.5-100%				
12	Plates Red	Both plates red intensity 0-100%	0-255	0-100%	255	Fade
13	Plates Green	Both plates green intensity 0-100%	0-255	0-100%	255	Fade
14	Plates Blue	Both plates blue intensity 0-100%	0-255	0-100%	255	Fade
15	Plate Pixel 1	Red intensity 0-100%	0-100%	0-255	0	Fade
16		Green intensity 0-100%	0-100%	0-255	0	Fade
17		Blue intensity 0-100%	0-100%	0-255	0	Fade
18	Plate Pixel 2	Red intensity 0-100%	0-100%	0-255	0	Fade
19		Green intensity 0-100%	0-100%	0-255	0	Fade
20		Blue intensity 0-100%	0-100%	0-255	0	Fade
21	Plate Pixel 3	Red intensity 0-100%	0-100%	0-255	0	Fade
22		Green intensity 0-100%	0-100%	0-255	0	Fade
23		Blue intensity 0-100%	0-100%	0-255	0	Fade
24	Plate Pixel 4	Red intensity 0-100%	0-100%	0-255	0	Fade
25		Green intensity 0-100%	0-100%	0-255	0	Fade
26		Blue intensity 0-100%	0-100%	0-255	0	Fade
27	Plate Pixel 5	Red intensity 0-100%	0-100%	0-255	0	Fade
28		Green intensity 0-100%	0-100%	0-255	0	Fade
29		Blue intensity 0-100%	0-100%	0-255	0	Fade
30	Plate Pixel 6	Red intensity 0-100%	0-100%	0-255	0	Fade
31		Green intensity 0-100%	0-100%	0-255	0	Fade
32		Blue intensity 0-100%	0-100%	0-255	0	Fade
33	Plate Pixel 7	Red intensity 0-100%	0-100%	0-255	0	Fade
34		Green intensity 0-100%	0-100%	0-255	0	Fade
35		Blue intensity 0-100%	0-100%	0-255	0	Fade

36	Plate Pixel 8	Red intensity 0-100%	0-100%	0-255	0	Fade
37		Green intensity 0-100%	0-100%	0-255	0	Fade
38		Blue intensity 0-100%	0-100%	0-255	0	Fade
39	Plate Pixel 9	Red intensity 0-100%	0-100%	0-255	0	Fade
40		Green intensity 0-100%	0-100%	0-255	0	Fade
41		Blue intensity 0-100%	0-100%	0-255	0	Fade
42	Plate Pixel 10	Red intensity 0-100%	0-100%	0-255	0	Fade
43		Green intensity 0-100%	0-100%	0-255	0	Fade
44		Blue intensity 0-100%	0-100%	0-255	0	Fade
45	Plate Pixel 11	Red intensity 0-100%	0-100%	0-255	0	Fade
46		Green intensity 0-100%	0-100%	0-255	0	Fade
47		Blue intensity 0-100%	0-100%	0-255	0	Fade
48	Plate Pixel 12	Red intensity 0-100%	0-100%	0-255	0	Fade
49		Green intensity 0-100%	0-100%	0-255	0	Fade
50		Blue intensity 0-100%	0-100%	0-255	0	Fade
51	Beam Pixels	Pixel 1 intensity 0-100%	0-100%	0-255	0	Fade
52		Pixel 2 intensity 0-100%	0-100%	0-255	0	Fade
53		Pixel 3 intensity 0-100%	0-100%	0-255	0	Fade
54		Pixel 4 intensity 0-100%	0-100%	0-255	0	Fade
55		Pixel 5 intensity 0-100%	0-100%	0-255	0	Fade
56		Pixel 6 intensity 0-100%	0-100%	0-255	0	Fade
57		Pixel 7 intensity 0-100%	0-100%	0-255	0	Fade
58		Pixel 8 intensity 0-100%	0-100%	0-255	0	Fade
59		Pixel 9 intensity 0-100%	0-100%	0-255	0	Fade
60		Pixel 10 intensity 0-100%	0-100%	0-255	0	Fade
61		Pixel 11 intensity 0-100%	0-100%	0-255	0	Fade
62		Pixel 12 intensity 0-100%	0-100%	0-255	0	Fade

Commands marked with an asterisk * must be held for >3 seconds to apply.

DMX Mode 5 (1Pix Pro), 17 DMX Channels

Tilt, Beam shutter, special/control, Plates shutter, Plates grouped RGB, Plates background grouped RGB

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	Coarse Tilt (MSB)	0-185°	0-255	0-100%	127	Fade
2	Fine Tilt (LSB)	Coarse tilt + 0-1.2°	0-255	0-100%	127	Fade
3	Beam Intensity	Intensity 0-100%	0-255	0-100%	0	Fade
4	Beam Duration	Flash duration 7-650 ms	0-255	0-100%	255	Fade
5	Beam Rate	Flash rate 0.289-16.67 Hz	0-255	0-100%	255	Fade
6	Beam Shutter	No effect	0-36	0-14.0%	0	Snap
		Ramp up (= fade on, snap off)	37-40	14.5-15.5%		
		Ramp up random	41-44	16.0-17.0%		
		Ramp down	45-48	17.5-18.5%		
		Ramp down random	49-52	19.0-20.0%		
		Ramp up down	53-56	20.5-21.5%		
		Ramp up down random	57-60	22.0-23.0%		
		Random white beam	61-64	23.5-24.5%		
		Random single pixel of white beam	65-68	25.0-26.0%		
		Lightning	69-72	26.5-27.5%		
		Spikes (flash over low light)	73-76	28.0-29.0%		
		White beam, left to right	77-80	30.0-31.5%		
		White beam, left to right, random	81-84	32.0-33.0%		
		White beam, right to left	85-88	33.5-34.5%		
		White beam, right to left, random	89-92	35.0-36.0%		
		White beam, left to right, bounce	93-96	36.5-37.5%		
		White beam, left to right, bounce, random	97-100	38.0-39.0%		
		White beam, right to left, bounce	101-104	39.5-40.5%		
		White beam, right to left, bounce, random	105-108	41.0-42.5%		
		Zig, 6 steps, outer to center pixels	109-112	43.0-43.5%		
		Zig, 6 steps, outer to center pixels random	113-116	44.0-45.5%		
		Zag, 6 steps, center to outer pixels	117-120	46.0-47.0%		
		Zag, 6 steps, center to outer pixels, random	121-124	47.5-48.5%		
		Zigzag, 10 steps	125-128	49.0-50.0%		
		Zigzag, 10 steps, random	129-132	50.5-52.0%		
		No function	133-179	52.5-70.0%		
		Double flash	180-183	70.6-71.8%		
		Double flash, random	184-187	72.2-73.3%		
		Double flash, b-c (beam-color)	188-191	73.7-74.9%		
		Double flash, b-c, random	192-195	75.3-76.5%		
		Double flash, c-b (color-beam)	196-199	76.9-78.0%		
		Double flash, c-b, random	200-203	78.4-79.6%		
Triple flash	204-207	80.0-81.2%				
Triple flash, random	208-211	81.6-82.7%				
Triple flash, beam-color-beam	212-215	83.1-84.3%				
Triple flash, b-c-b, random	216-219	84.7-85.9%				
Triple flash, c-b-c	220-223	86.3-87.5%				
Triple flash, c-b-c, random	224-227	87.8-89.0%				

6	Beam Shutter (continued)	Quad flash	228-231	89.4-90.6%		
		Quad flash, random	232-235	91.0-92.2%		
		Quad flash, b-c-b-c	236-239	92.5-93.7%		
		Quad flash, b-c-b-c, random	240-243	94.1-95.3%		
		Quad flash, c-b-c-b	244-247	95.7-96.9%		
		Quad flash, c-b-c-b, random	248-251	97.3-98.4%		
		No function	252-255	98.5-100%		
7	Special / Control	No function	0	0%	0	Snap
		Beam Shutter effects and FX patterns offset:				
		10°	1	0.4%		
		20°	2	0.8%		
		30°	3	1.2%		
		40°	4	1.6%		
		50°	5	2.0%		
		60°	6	2.4%		
		70°	7	2.8%		
		80°	8	3.1%		
		90°	9	3.5%		
		100°	10	3.9%		
		110°	11	4.3%		
		120°	12	4.7%		
		130°	13	5.1%		
		140°	14	5.5%		
		150°	15	5.9%		
		160°	16	6.3%		
		170°	17	6.7%		
		180°	18	7.1%		
		190°	19	7.5%		
		200°	20	7.8%		
		210°	21	8.2%		
		220°	22	8.6%		
		230°	23	9.0%		
		240°	24	9.4%		
		250°	25	9.8%		
		260°	26	10.2%		
		270°	27	10.6%		
		280°	28	11.0%		
		290°	29	11.4%		
		300°	30	11.8%		
		310°	31	12.2%		
		320°	32	12.6%		
		330°	33	12.9%		
		340°	34	13.3%		
		350°	35	13.7%		
360°	36	14.1%				
No function	37-39	14.5-15.3%				

7	Special / Control (continued)	Position feedback on*	40-44	15.7-17.3%		
		Position feedback off*	45-49	17.7-19.2%		
		Barndoor on*	50-54	19.6-21.2%		
		Barndoor off*	55-59	21.6-23.1%		
		No function	60-61	23.5-23.9%		
		Tilt power on*	62-63	24.3-24.7%		
		Tilt power off*	64-65	25.1-25.5%		
		Tilt reset on*	66-67	25.9-26.3%		
		Tilt reset off*	68-69	26.7-27.1%		
		Normal tilt control*	70-74	27.5-29.0%		
		Inverse tilt control*	75-79	29.4-31.0%		
		Normal pixel numbering, plates 1+2	80-84	31.4-32.9%		
		Inverse pixel numbering, plates 1+2	85-89	33.3-34.9%		
		Normal pixel numbering, 2nd plate	90-94	35.3-36.9%		
		Inverse pixel numbering, 2nd plate	95-99	37.3-38.8%		
		PWM frequency:				
		582 Hz	100-102	39.2-40.0%		
		583 Hz	103-105	40.4-41.2%		
		584 Hz	106-107	41.6-42.0%		
		585 Hz	108-110	42.4-43.1%		
		586 Hz	111-112	43.5-43.9%		
		587 Hz	113-115	44.3-45.1%		
		588 Hz	116-118	45.5-46.3%		
		589 Hz	119-120	46.7-47.1%		
		590 Hz	121-123	47.5-48.2%		
		591 Hz	124-125	48.6-49.0%		
		592 Hz	126-128	49.4-50.2%		
		593 Hz	129-131	50.6-51.4%		
		594 Hz	132-133	51.8-52.2%		
		595 Hz	134-136	52.5-53.3%		
		596 Hz	137-138	53.7-54.1%		
		597 Hz	139-141	54.5-55.3%		
		598 Hz	142-144	55.7-56.5%		
		599 Hz	145-146	56.9-57.3%		
		600 Hz	147-149	57.6-58.4%		
		601 Hz	150-151	58.8-59.2%		
		602 Hz	152-154	59.6-60.4%		
		603 Hz	155-157	60.8-61.6%		
		604 Hz	158-159	62.0-62.4%		
		605 Hz	160-162	62.7-63.5%		
		606 Hz	163-164	63.9-64.3%		
		607 Hz	165-167	64.7-65.5%		
		608 Hz	168-170	65.9-66.7%		
		609 Hz	171-172	67.1-67.5%		
		610 Hz	173-175	67.8-68.6%		
611 Hz	176-177	69.0-69.4%				
612 Hz	178-180	69.8-70.6%				
613 Hz	181-183	71.0-71.8%				
614 Hz	184-185	72.2-72.5%				
615 Hz	186-188	72.9-73.7%				

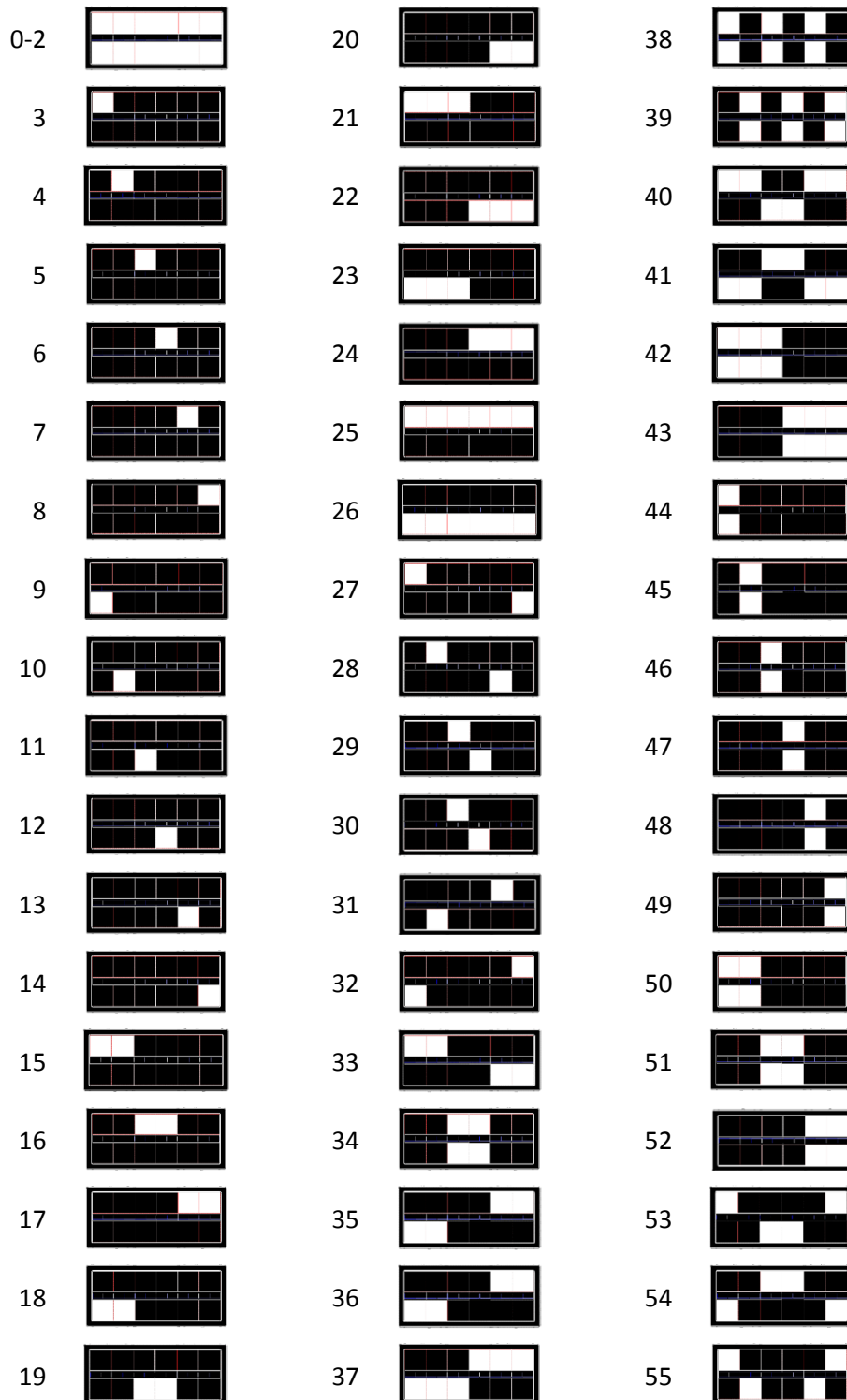
7	Special /Control (continued)	616 Hz	189-190	74.1-74.5%		
		617 Hz	191-194	74.9-75.7%		
		618 Hz	194-194	76.1-76.1%		
		1200 Hz	195-197	76.5-77.3%		
		2400 Hz	198-200	77.6-78.4%		
		No function	201-209	79.0-82.0%		
		Flash percentage mode on*	210-214	82.5-84.0%		
		Flash percentage mode off*	215-219	84.5-85.0%		
		Dimmer flash mode on*	220-224	86.0-87.5%		
		Dimmer flash mode off*	225-229	88.0-90.0%		
		FX: plate color priority on*	230-234	90.5-91.5%		
		FX: plate color priority off*	235-239	92.0-93.5%		
		No function	220-247	94.0-97.0%		
		Reset (hold value for > 5 seconds)	248-255	98.0-100%		
8	Plate Intensity	Intensity 0-100%	0-255	0-100%	0	Fade
9	Plate Flash Duration	7-650 ms	0-255	0-100%	255	Fade
10	Plate Flash Rate	0.289-16.67 Hz	0-255	0-100%	255	Fade
11	Plate Shutter	No function	0	0%	0	Snap
		Plate Shutter effects and FX patterns offset:				
		10°	1	0.4%		
		20°	2	0.8%		
		30°	3	1.2%		
		40°	4	1.6%		
		50°	5	2.0%		
		60°	6	2.4%		
		70°	7	2.8%		
		80°	8	3.1%		
		90°	9	3.5%		
		100°	10	3.9%		
		110°	11	4.3%		
		120°	12	4.7%		
		130°	13	5.1%		
		140°	14	5.5%		
		150°	15	5.9%		
		160°	16	6.3%		
		170°	17	6.7%		
		180°	18	7.1%		
		190°	19	7.5%		
		200°	20	7.8%		
210°	21	8.2%				
220°	22	8.6%				

11	Plate Shutter (continued)	240°	24	9.4%		
		250°	25	9.8%		
		260°	26	10.2%		
		270°	27	10.6%		
		280°	28	11.0%		
		290°	29	11.4%		
		300°	30	11.8%		
		310°	31	12.2%		
		320°	32	12.6%		
		330°	33	12.9%		
		340°	34	13.3%		
		350°	35	13.7%		
		360°	36	14.1%		
		Ramp up (fade on, snap off)	37-40	14.5-15.5%		
		Ramp up, random	41-44	16.0-17.0%		
		Ramp down	45-48	17.5-18.5%		
		Ramp down, random	49-52	19.0-20.0%		
		Ramp up / down	53-56	20.5-21.5%		
		Ramp up / down, random	57-60	22.0-23.0%		
		Random white beam	61-64	23.5-24.5%		
		Random single pixel of the white beam	65-68	25.0-26.0%		
		Lightning	69-72	26.5-27.5%		
		Spikes (flash over low light)	73-76	28.0-29.0%		
		No function	77-179	29.5-70.0%		
		Double flash	180-191	70.6-74.9%		
		Double flash, random	192-203	75.3-79.6%		
		Triple flash	204-215	80.0-84.3%		
Triple flash, random	216-227	84.7-89.0%				
Quad flash	228-239	89.4-93.7%				
Quad flash, random	240-251	94.1-98.4%				
No effect	252-255	98.5-100%				
12	Plates Red	Both plates red intensity 0-100%	0-255	0-100%	255	Fade
13	Plates Green	Both plates green intensity 0-100%	0-255	0-100%	255	Fade
14	Plates Blue	Both plates blue intensity 0-100%	0-255	0-100%	255	Fade
15	Plates Flash Background Red	Intensity 0-100%	0-255	0-100%	0	Fade
16	Plates Flash Background Green	Intensity 0-100%	0-255	0-100%	0	Fade
17	Plates Flash Background Blue	Intensity 0-100%	0-255	0-100%	0	Fade

Commands marked with an asterisk * must be held for >3 seconds to apply.

Plate FX patterns

You can display the following dynamic patterns on the Plates in DMX modes 2 and 3 by sending the indicated DMX values on channel 17:



56		75		94	
57		76		95	
58		77		96	
59		78		97	
60		79		98	
61		80		99	
62		81		100	
63		82		101	
64		83		102	
65		84		103	
66		85		104	
67		86		105	
68		87		106	
69		88		107	
70		89		108	
71		90		109	
72		91		110	
73		92		111	
74		93		112	

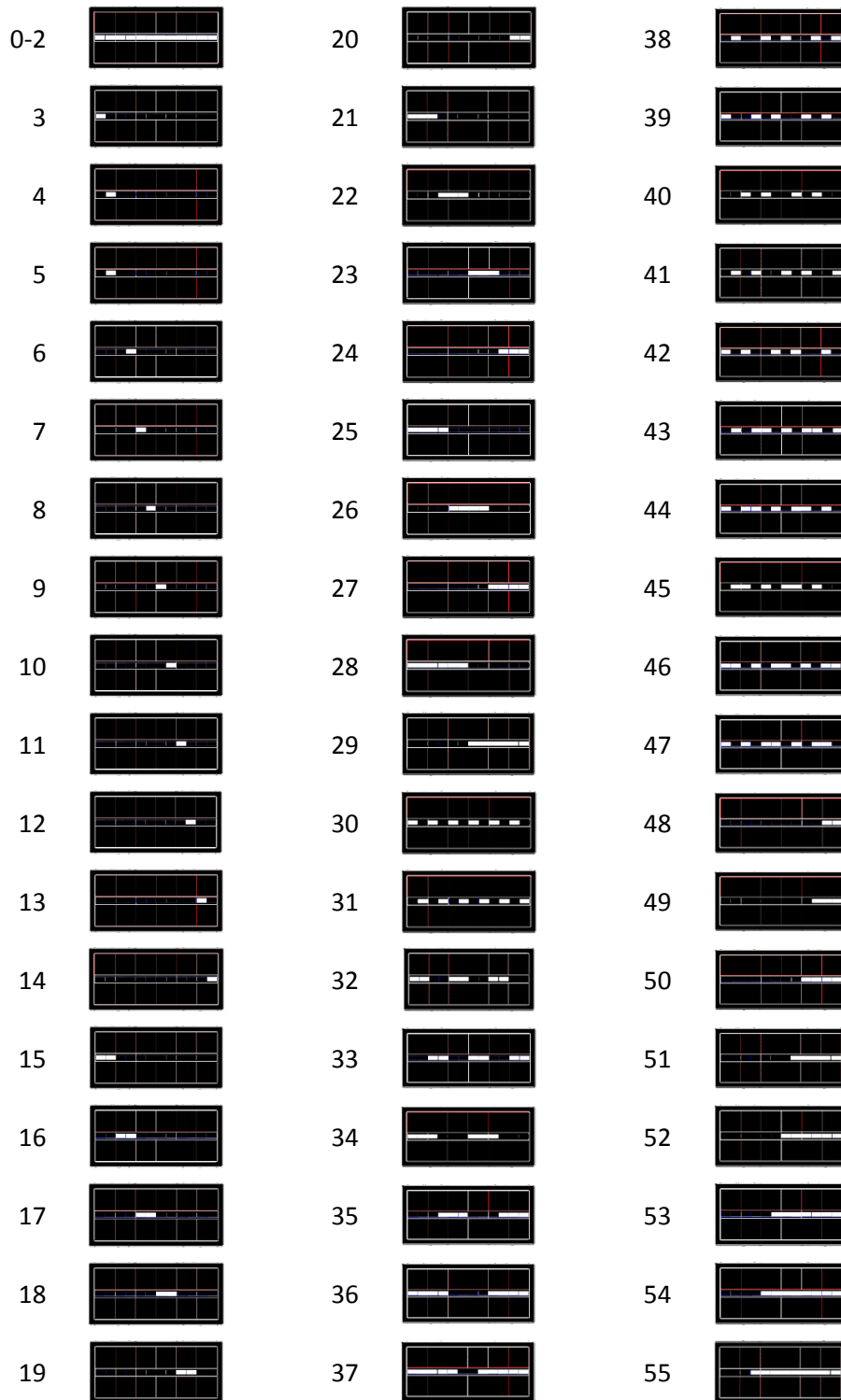
113		132		151	
114		133		152	
115		134		153	
116		135		154	
117		136		155	
118		137		156	
119		138		157	
120		139		158	
121		140		159	
122		141		160	
123		142		161	
124		143		162	
125		144		163	
126		145		164	
127		146		165	
128		147		166	
129		148		167	
130		149		168	
131		150		169	



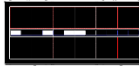
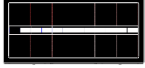
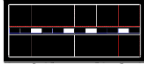


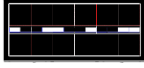












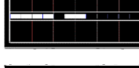






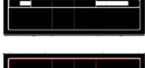




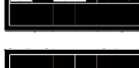


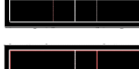


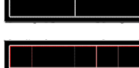


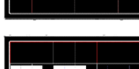

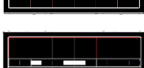








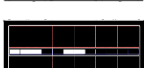







170		191		210	
171		192		211	
172		193		212	
173		194		213	
174		195		214	
175		196		215	
176		197		216	
177		198		217	
178-180		199		218	
181		200		219	
182		201		220	
183		202		221	
184		203		222	
185		204		223	
186		205		224	
187		206		225	
188		207		226	
189		208		227	
190		209		228	


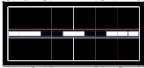


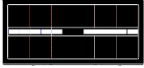
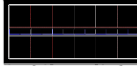
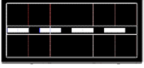




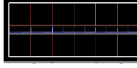

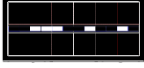

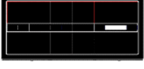

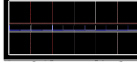




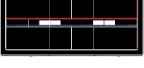










229		238		247	
230		239		248	
231		240		249	
232		241		250	
233		242		251	
234		243		252	
235		244		253	
236		245		254	
237		246		255	

Beam FX patterns

You can display the following dynamic patterns on the Beam pixels in DMX modes 2 and 3 by sending the indicated DMX values on channel 19:



56		76		96	
57		77		97	
58		78		98	
59		79		99	
60		80		100	
61		81		101	
62		82		102	
63		83		103	
64		84		104	
65		85		105	
66		86		106	
67		87		107	
68		88		108	
69		89		109	
70		90		110	
71		91		111	
72		92		112	
73		93		113	
74		94		114	
75		95		115	

116		130		157	
117		131		158-160	
118		132		161	
119		133		162-164	
120		134		165	
121		135-145		166-255	
122		146			
123		147-149			
124		150			
125		151			
126		152			
127		153-154			
128		155			
129		156	