SolaWash 37 DMX Control Protocol *

Revision 1.0.1

20-May-15

Revision History

- RevisionRevision Notes0.0.1First Pass 25 May 12
- 0.0.1 First Pass 25 May 12 0.0.2 2nd pass - 13 Nov 12
- 0.0.3 Image Chase Fade removed, range corrections, RGBW removed from mapping protocol -21 Nov 12
- 0.0.4 color correction, control channel changed 7 Mar 13
- 0.0.5 color correction changed 19 Mar 13
- 0.0.6 Cycle & random color control corrected 3 Jul 13
- 1.0.0 Added controller defaults to all parmaeters 11 May 15
- 1.0.1 Protocol formatting clean up 20 May 15

	Standard Protocol					
Channel	Construct					
1	Pan					
2	Pan					
3	Tilt					
4	Tilt					
5	Color Function					
6	Red					
7	Green					
8	Blue					
9	White					
10	Color Correction					
11	Zoom coarse					
12	Zoom Fine					
13	Strobe					
14	Dim Coarse					
15	Dim Fine					
16	Image					
17	Image Play Speed					
18	Mspeed					
19	Control					
20	Indigo Highlighter Function					
21	Indigo Highlighter Dim					

	Zones Protocol					
Channel	Construct					
1	Pan					
2	Pan					
3	Tilt					
4	Tilt					
5	Color Correction					
6	Zoom coarse					
7	Zoom Fine					
8	Strobe					
9	Dim Coarse					
10	Dim Fine					
11	Mspeed					
12	Control					
13	Color Function					
14	Red (zone 1)					
15	Green (zone 1)					
16	Blue (zone 1)					
17	White (zone 1)					
18	Red (zone 2)					
19	Green (zone 2)					
20	Blue (zone 2)					
21	White (zone 2)					
22	Red (zone 3)					
23	Green (zone 3)					
24	Blue (zone 3)					
25	White (zone 3)					
26	Red (zone 4)					
27	Green (zone 4)					
28	Blue (zone 4)					
29	White (zone 4)					
30	Indigo Highlighter Function					
31	Indigo Highlighter Dim					

	Reduced Protocol					
Channel	Construct					
1	Pan					
2	Pan					
3	Tilt					
4	Tilt					
5	Color Function					
6	Red					
7	Green					
8	Blue					
9	White					
10	Color Correction					
11	Zoom coarse					
12	Zoom Fine					
13	Strobe					
14	Dim Coarse					
15	Dim Fine					
16	Mspeed					
17	Control					
18	Indigo Highlighter Function					
19	Indigo Highlighter Dim					

	Mapping Protocol					
Channel	Construct					
1	Pan					
2	Pan					
3	Tilt					
4	Tilt					
5	Color Correction					
6	Zoom coarse					
7	Zoom Fine					
8	Strobe					
9	Dim Coarse					
10	Dim Fine					
11	Mspeed					
12	Control					
13	LED 1 Red					
14	LED 1 Green					
15	LED 1 Blue					
16	LED 1 White					
17	LED 2 Red					
18	LED 2 Green					
19	LED 2 Blue					
20	LED 2 White					
21	LED 3 Red					
22	LED 3 Green					
23	LED 3 Blue					
24	LED 3 White					
25	LED 4 Red					
26	LED 4 Green					
27	LED 4 Blue					
28	LED 4 White					

29	LED 5 Red
30	LED 5 Green
31	LED 5 Blue
32	LED 5 White
33	LED 6 Red
34	LED 6 Green
35	LED 6 Blue
36	LED 6 White
37	LED 7 Red
38	LED 7 Green
39	LED 7 Blue
40	LED 7 White
41	LED 8 Red
42	LED 8 Green
43	LED 8 Blue
44	LED 8 White
45	LED 9 Red
46	LED 9 Green
47	LED 9 Blue
48	LED 9 White
49	LED 10 Red
50	LED 10 Green
51	LED 10 Blue
52	LED 10 White
53	LED 11 Red
54	LED 11 Green
55	LED 11 Blue
56	LED 11 White
57	LED 12 Red
58	LED 12 Green
59	LED 12 Blue
60	LED 12 White
61	LED 13 Red
62	LED 13 Green
63	LED 13 Blue
64	LED 13 White
65	LED 14 Red
66	LED 14 Green
67	LED 14 Blue
68	LED 14 White
69	LED 15 Red
70	LED 15 Green
70	LED 15 Blue
71	LED 15 White
72	LED 16 Red
73	LED 16 Green
74	LED 16 Blue
75	LED 16 Blue
76	LED 17 Red
	LED 17 Red LED 17 Green
78	LED 17 Green LED 17 Blue
79	LED 17 Blue LED 17 White
80	

81	LED 18 Red
82	LED 18 Green
83	LED 18 Blue
84	LED 18 White
85	LED 19 Red
86	LED 19 Green
87	LED 19 Blue
88	LED 19 White
89	LED 20 Red
90	LED 20 Green
91	LED 20 Blue
92	LED 20 White
93	LED 21 Red
94	LED 21 Green
95	LED 21 Blue
96	LED 21 White
97	LED 22 Red
98	LED 22 Green
99	LED 22 Blue
100	LED 22 White
100	LED 22 White LED 23 Red
101	LED 23 Green
102	LED 23 Blue
103	LED 23 White
104	LED 24 Red
105	LED 24 Green
100	LED 24 Blue
107	LED 24 White
100	LED 25 Red
110	LED 25 Green
111	LED 25 Blue
112	LED 25 White
112	LED 26 Red
114	LED 26 Green
115	LED 26 Blue
116	LED 26 White
117	LED 27 Red
118	LED 27 Green
119	LED 27 Blue
120	LED 27 White
120	LED 28 Red
121	LED 28 Green
122	LED 28 Blue
123	LED 28 White
124	LED 29 Red
125	LED 29 Red LED 29 Green
120	LED 29 Blue
127	LED 29 Blue
128	LED 30 Red
129	LED 30 Red LED 30 Green
	LED 30 Green
131	
132	LED 30 White

133	LED 31 Red
134	LED 31 Green
135	LED 31 Blue
136	LED 31 White
137	LED 32 Red
138	LED 32 Green
139	LED 32 Blue
140	LED 32 White
141	LED 33 Red
142	LED 33 Green
143	LED 33 Blue
144	LED 33 White
145	LED 34 Red
146	LED 34 Green
147	LED 34 Blue
148	LED 34 White
149	LED 35 Red
150	LED 35 Green
151	LED 35 Blue
152	LED 35 White
153	LED 36 Red
154	LED 36 Green
155	LED 36 Blue
156	LED 36 White
157	LED 37 Red
158	LED 37 Green
159	LED 37 Blue
160	LED 37 White
161	Indigo Highlighter Function
162	Indigo Highlighter Dim

SolaWash 37 Luminaire Standard DMX Control Protocol *

Channel	Marketing Construct	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low		Console Defaults
1	Pan	Pan Coarse	0	255	0%	100%	00h	FFh	128
2	Pan	Pan Fine	0	255	0%	100%	00h	FFh	0
3	Tilt	Tilt Coarse	0	255	0%	100%	00h	FFh	128
4	Tilt	Tilt Fine	0	255	0%	100%	00h	FFh	0
		Full Speed Control							-
		RGB	0	23	0%	9%	00h	17h	
5	Color	СМҮ	24	47	9%	18%	18h	2Fh	0.4
	Function	Cycle	48	79	19%	31%	30h	4Fh	24
		Random	80	127	31%	50%	50h	7Fh	
		Reserved	128	255	50%	100%	80h	bwHighDhFFhDhFFhDhFFhDh2FhDh2FhDh2FhDh4FhDh4FhDh7FhDh7FhDh7FhDh1Th1Dh1Dh1Dh1Dh1Dh1Dh1Dh1 <tr< td=""><td></td></tr<>	
		RGB Control		•					
		Red Off	0		0%		00h		
		Red Full Saturation	255		100%		FFh		
		CMY Control	-	-	2	2			
6	Red	Cyan Off	0		0%		00h		0
-		Cyan Full Saturation	255		100%		FFh		
		Cycle and Random Control			1	1			
		Slow cycle	0		0%		00h		
		Fast cycle	255		100%		FFh		
		RGB Control			1	1			
		Green Off	0		0%		00h		2
7	Green	Green Full Saturation	255		100%		FFh		
		CMY Control			<u></u>	<u></u>			0
	7 Green	Magenta Off	0		0%		00h		
		Magenta Full Saturation	255		100%		FFh		
		RGB Control		l		I			
		Blue Off	0		0%		00h		
8	Blue	Blue Full Saturation	255		100%		FFh		
Ũ	Dide	CMY Control	200		10070				0
		Yellow Off	0	1	0%		00h		
		Yellow Full Saturation	255		100%		FFh		
9	White	Off	0		0%		00h		
Ũ	· · · · · · · · · · · · · · · · · · ·	Full Saturation	255		100%		FFh		0
	Color	Off	0		0%		00h		
10		Color Temperature low to normal	1	255	0%	100%		FFh	0
		Zoom In	0	200	0%	10070	00h		
		Zoom Out	255		100%		FFh		127
12	Zoom Eine	Zoom In	0		0%		00h		
12		Zoom Out	255		100%		FFh		255
		Off	0	0	0%	0%	00h		
13	Strobe	Synchronous strobe slow to fast	1	100	0%	39%	001h		
10		Random Random strobe	101	100	40%	69%			0
		Synchronous Random Strobe	178	254	70%	100%			U
		Off	255	255	100%	100%			
14	Dim Coarse	Close	0	200	0%	10070	00h		
14		Open	255		100%		FFh		0
15	Dim Fine		0		0%		00h		
1.0			255		100%	l	FFh		0

		Solid (all pixels)	0	0	0%	0%	00h 00h	
16	Image	Unique Static Image	1	102	0%	40%	01h 66h	
		Unique Animation	128	131	50%	51%	80h 83h	
			132	135	52%	53%	84h 87h	
			136	139	53%	55%	88h 8Bh	
			140	143	55%	56%	8Ch 8Fh	
			144	147	56%	58%	90h 93h	
			148	151	58%	59%	94h 97h	
			152	155	60%	61%	98h 9Bh	
			156	159	61%	62%	9Ch 9Fh	
			160	163	63%	64%	A0h A3h	
			164	167	64%	65%	A4h A7h	
			168	171	66%	67%	A8h ABh	
			172	175	67%	69%	ACh AFh	
			176	179	69%	70%	B0h B3h	
			180	183	71%	72%	B4h B7h	
			184	187	72%	73%	B8h BBh	0
			188	191	74%	75%	BCh BFh	
			192	195	75%	76%	C0h C3h	
			196	199	77%	78%	C4h C7h	
			200	203	78%	80%	C8h CBh	
			204	207	80%	81%	CCh CFh	
			208	211	82%	83%	D0h D3h	
			212	215	83%	84%	D4h D7h	
			216	219	85%	86%	D8h DBh	
			220	223	86%	87%	DCh DFh	
			224	227	88%	89%	E0h E3h	
			228	231	89%	91%	E4h E7h	
			232	235	91%	92%	E8h EBh	
			236	239	93%	94%	ECh EFh	
			240	243	94%	95%	F0h F3h	
			244	247	96%	97%	F4h F7h	
		Solid (all pixels)	248	255	97%	100%	F8h FFh	
		Normal Speed	0	0	0%	0%	00h 00h	
17	Image	Stop	1	1	0%	0%	01h 01h	
	Play Speed	Slowest speed increasing to normal	2	127	1%	50%	02h 7Fh	128
		Normal Speed	128	128	50%	50%	80h 80h	
		Normal speed increasing to fastest	129	255	51%	100%	81h FFh	
		Disable	0	3	0%	1%	00h 03h	
18	Mspeed	Longest (252.7 seconds)	4		2%		04h	0
		Shortest (0.15 seconds)	255		100%		FFh	

		The Control channel should not be cross	sfaded. N	lo shutte	r channel	requirem	nent.	
		Safe (normal operation)	0	9	0%	4%	00h 09h	
		Reserved	10	19	4%	7%	0Ah ###	
		Shutter channel to 0 for access to the following commands.						
	19 Control	Display Off (send 20 packets)	20	28	8%	11%	14h 1Ch	
19		Display On (send 20 packets)	29	48	11%	19%	1Dh 30h	
		Home All (send 20 packets)	49	68	19%	27%	31h 44h	
		Shutdown (send 80 packets)	69	130	27%	51%	45h 82h	
		Position Home (send 20 packets)	131	140	51%	55%	83h 8Ch	
		Other Motor Home (send 20 packets)	141	150	55%	59%	8Dh 96h	0
		Audio Sync (send 20 packets)	151	160	59%	63%	97h A0h	0
		No shutter channel requirement.						
		Internal Prog 1 scene 1-8 EEPROM	161	171	63%	67%	A1h ABh	
		Internal Prog 2 scene 9-16 EEPROM	172	182	67%	71%	ACh B6h	
		Internal Prog 3 scene 17-24 EEPROM	183	193	72%	76%	B7h C1h	
		Internal Prog 4 scene 25-32 EEPROM	194	204	76%	80%	C2h CCh	
		Internal Prog 5 scene 33-40 EEPROM	205	215	80%	84%	CDh D7h	
		Internal Prog 6 scene 41-48 EEPROM	216	226	85%	89%	D8h E2h	
		Internal Prog 7 scene 49-56 EEPROM	227	237	89%	93%	E3h EDh	
		TBD	238	255	93%	100%	EEh FFh	
		Indigo Highlighter Dim Tracking Mode						
		Continuous	0	15	0%	6%	00h 0Fh	
		Periodic Strobe (slow to fast)	16	41	6%	16%	10h 29h	
		Random Strobe (slow to fast)	42	67	16%	26%	2Ah 43h	
20	Indigo Highlighter	TBD	68	127	27%	50%	44h 7Fh	0
	Function	Indigo Highlighter Independent Dim Moo	de					0
		Continuous	128	143	50%	56%	80h 8Fh	
		Periodic Strobe (slow to fast)	144	169	56%	66%	90h A9h	
		Random Strobe (slow to fast)	170	195	67%	76%	AAh C3h	
		TBD	196	255	77%	100%	C4h FFh	
21	Indigo Highlighter	Indigo Highslighter Off	0		0%		00h	0
	Dim	Indigo Highlighter 100%	255		100%		FFh	0

Channel	Marketing Construct	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Console Defaults
1	Pan	Pan Coarse	0	255	0%	100%	00h	FFh	128
2	Pan	Pan Fine	0	255	0%	100%	00h	FFh	0
3	Tilt	Tilt Coarse	0	255	0%	100%	00h	FFh	128
4	Tilt	Tilt Fine	0	255	0%	100%	00h	FFh	0
		Off	0		0%		00h		Ū
5	Color	Color Temperature low to normal	1	127	0%	50%	01h	7Fh	0
Ũ	Correction	TBD	128	255	50%	100%	80h	FFh	U U
6	Zoom coarse	Zoom In	0		0%		00h		
Ũ		Zoom Out	255		100%		FFh		127
7	Zoom Fine	Zoom In	0		0%		00h		
		Zoom Out	255		100%		FFh		255
		Off	0	0	0%	0%	00h	00h	
8	Strobe	Synchronous strobe slow to fast	1	100	0%	39%	01h	64h	
-		Random Random strobe	101	177	40%	69%	65h	B1h	0
		Synchronous Random Strobe	178	254	70%	100%	B2h	FEh	-
		Off	255	255	100%	100%	FFh	FFh	
9	Dim Coarse	Close	0		0%		00h		
-		Open	255		100%		FFh		0
10	Dim Fine	Close	0		0%		00h		
	-	Open	255		100%		FFh		0
		Disable	0	3	0%	1%	00h	03h	
11	Mspeed	Longest (252.7 seconds)	4		2%		04h		0
	-1	Shortest (0.15 seconds)	255		100%		FFh		-
		The Control channel should not be cros	ssfaded.	No shutte	r channel	requirem	ent.		
		Safe (normal operation)	0	9	0%	4%	00h	09h	
		Reserved	10	19	4%	7%	0Ah	13h	
		Shutter channel to 0 for access to the f	ollowing c	commands	6.				
		Display Off (send 20 packets)	20	28	8%	11%	14h	1Ch	
12	Control	Display On (send 20 packets)	29	48	11%	19%	1Dh	30h	
		Home All (send 20 packets)	49	68	19%	27%	31h	44h	
		Shutdown (send 80 packets)	69	130	27%	51%	45h	82h	
		Position Home (send 20 packets)	131	140	51%	55%	83h	8Ch	
		Other Motor Home (send 20 packets)	141	150	55%	59%	8Dh	96h	0
		Audio Sync (send 20 packets)	151	160	59%	63%	97h	A0h	0
		No shutter channel requirement.							
		Internal Prog 1 scene 1-8 EEPROM	161	171	63%	67%	A1h	ABh	
		Internal Prog 2 scene 9-16 EEPROM	172	182	67%	71%	ACh		
		Internal Prog 3 scene 17-24 EEPROM	183	193	72%	76%		C1h	
		Internal Prog 4 scene 25-32 EEPROM	194	204	76%	80%		CCh	
		Internal Prog 5 scene 33-40 EEPROM	205	215	80%	84%		D7h	
		Internal Prog 6 scene 41-48 EEPROM	216	226	85%	89%		E2h	
		Internal Prog 7 scene 49-56 EEPROM	227	237	89%	93%		EDh	
		TBD	238	255	93%	100%	EEh	FFh	
		All LEDs Control - adjust colors with ch							
		RGB (all zones)	0	23	0%	9%	00h	17h	
13	Color	CMY (all zones)	24	47	9%	18%		2Fh	
	Function	Cycle	48	79	19%	31%	30h		
		Random	80	127	31%	50%	50h	7Fh	
		Zone Control - adjust colors with chann			E00/	E 404		0.01	
		Zone Pattern 1	128	137	50%	54%	80h	89h	128
		Zone Pattern 2	138	147	54%	58%	8Ah		
		Zone Pattern 3	148	157	58%	62%		9Dh	
		Zone Pattern 4	158	167	62%	65%		A7h	
		Zone Pattern 5	168	177	66%	69%		B1h	
		Zone Pattern 6	178	187	70%	73%		BBh	
		Zone Pattern 7	188	197	74%	77%		C5h	
	1	All Zones	200	255	78%	100%	C8h	FFh	

SolaWash 37 Luminaire Zones DMX Control Protocol *

		RGB Control				
		Red Off all LEDs	0	0%	00h	
		Red Full Saturation all LEDs	255	100%	FFh	
		CMY Control				
		Cyan Off all LEDs	0	0%	00h	
14	Red	Cyan Full Saturation all LEDs	255	100%	FFh	
• •	(zone1)	Cycle and Random Control	200	10070	<u> </u>	0
	(20101)	Slow cycle	0	0%	00h	
		Fast cycle	255	100%	FFh	
		Zone Control	200	10070		
		Red Off all zone 1 LEDs	0	0%	00h	
		Red Full Saturation all zone 1 LEDs	255	100%	FFh	
		RGB Control	200	10078	<u></u>	
		Green Off all LEDs	0	0%	00h	
15	Croon	Green Full Saturation all LEDs	255	100%	FFh	
15	Green		200	100%	FFN	
	(zone1)	CMY Control				
		Magenta Off all LEDs	0	0%	00h	0
		Magenta Full Saturation all LEDs	255	100%	FFh	
		Zone Control				
		Green Off all zone 1 LEDs	0	0%	00h	
		Green Full Saturation all zone 1 LEDs	255	100%	FFh	
		RGB Control				
		Blue Off all LEDs	0	0%	00h	
16	Blue	Blue Full Saturation all LEDs	255	100%	FFh	
	(zone1)	CMY Control				
		Yellow Off all LEDs	0	0%	00h	0
		Yellow Full Saturation all LEDs	255	100%	FFh	
		Zone Control				
		Blue Off all zone 1 LEDs	0	0%	00h	
		Blue Full Saturation all zone 1 LEDs	255	100%	FFh	
		RGB, CMY, Random, Cycle Control				
17	White	Off all LEDs	0	0%	00h	
	(zone1)	Full Saturation all LEDs	255	100%	FFh	
	(20101)	Zone Control	200	10070		0
		White Off all zone 1 LEDs	0	0%	006	
		White Full Saturation all zone 1 LEDs	255	100%	00h FFh	
40	Deal					
18	Red	Red Off all zone 2 LEDs Red Full Saturation all zone 2 LEDs	0	0%	00h	0
10	(zone2)		255	100%	FFh	
19	Green	Green Off all zone 2 LEDs	0	0%	00h	0
	(zone2)	Green Full Saturation all zone 2 LEDs	255	100%	FFh	-
20	Blue	Blue Off all zone 2 LEDs	0	0%	00h	0
	(zone2)	Blue Full Saturation all zone 2 LEDs	255	100%	FFh	Ŭ
21	White	Off all zone 2 LEDs	0	0%	00h	0
	(zone2)	Full Saturation all zone 2 LEDs	255	100%	FFh	<u> </u>
22	Red	Red Off all zone 3 LEDs	0	0%	00h	0
	(zone3)	Red Full Saturation all zone 3 LEDs	255	100%	FFh	0
23	Green	Green Off all zone 3 LEDs	0	0%	00h	0
	(zone3)	Green Full Saturation all zone 3 LEDs	255	100%	FFh	U
24	Blue	Blue Off all zone 3 LEDs	0	0%	00h	0
	(zone3)	Blue Full Saturation all zone 3 LEDs	255	100%	FFh	0
25	White	Off all zone 3 LEDs	0	0%	00h	~
-	(zone3)	Full Saturation all zone 3 LEDs	255	100%	FFh	0
26	Red	Red Off all zone 4 LEDs	0	0%	00h	-
	(zone4)	Red Full Saturation all zone 4 LEDs	255	100%	FFh	0
27	Green	Green Off zone 4 LEDs	0	0%	00h	
21	(zone4)	Green Full Saturation zone 4 LEDs	255	100%	FFh	0
	(201134)	1			00h	
28	Blue	Blue Off zone 4 LEDe	0	()%		
28	Blue	Blue Off zone 4 LEDs	0	0%		0
	(zone4)	Blue Full Saturation zone 4 LEDs	255	100%	FFh	0
28 29			-			0

		Indigo Highlighter Dim Tracking Mode							
		Continuous	0	15	0%	6%	00h	0Fh	
		Periodic Strobe (slow to fast)	16	41	6%	16%	10h	29h	
		Random Strobe (slow to fast)	42	67	16%	26%	2Ah	43h	
30	Indigo Highlighter	TBD	68	127	27%	50%	44h	7Fh	0
	Function	Indigo Highlighter Independent Dim Mode							
		Continuous	128	143	50%	56%	80h	8Fh	
		Periodic Strobe (slow to fast)	144	169	56%	66%	90h	A9h	
		Random Strobe (slow to fast)	170	195	67%	76%	AAh	C3h	
		TBD	196	255	77%	100%	C4h	FFh	
31	Indigo Highlighter	Indigo Highslighter Off	0		0%		00h		0
	Dim	Indigo Highlighter 100%	255		100%		FFh		U

Channel	Marketing Construct	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Console Defaults		
1	Pan	Pan Coarse	0	255	0%	100%	00h	FFh	128		
	Pan	Pan Fine	0	255	0%	100%	00h	FFh	0		
	Tilt	Tilt Coarse	0	255	0%	100%	00h	FFh	128		
	Tilt	Tilt Fine	0	255	0%	100%	00h	FFh	0		
		Full Speed Control		200	070	10070	0011		0		
		RGB	0	23	0%	9%	00h	17h			
5	Color	CMY	24	47	9%	18%	18h	2Fh	1		
	Function	Cycle	48	79	19%	31%	30h	4Fh	24		
		Random	80	127	31%	50%	50h	7Fh			
		Reserved	128	255	50%	100%	80h	FFh			
		RGB Control									
		Red Off	0		0%		00h				
6	Red	Red Full Saturation	255		100%		FFh				
-		CMY Control	1				1				
		Cyan Off	0	1	0%		00h		0		
		Cyan Full Saturation	255		100%		FFh		Ť		
		Cycle and Random Control	200		10070		11				
		Slow cycle	0	[0%		00h				
		Fast cycle	255		100%		FFh		1		
		RGB Control			10070						
	Green	Green Off	0	1	0%	1	00h				
7		Green Full Saturation	255		100%		FFh		-		
'		CMY Control	200		10070		1		0		
		Magenta Off	0	r	0%		00h				
		Magenta Full Saturation	255		100%		FFh		4		
		RGB Control	200		10070						
		Blue Off	0	r	0%		00h				
8	Blue	Blue Full Saturation	255		100%		FFh		-		
0		CMY Control	200		10070				0		
		Yellow Off	0	r	0%		00h				
		Yellow Full Saturation	255		100%		FFh		4		
9	White	Off	0		0%		00h		-		
9	vvnite	Full Saturation	255		100%		FFh		0		
10	Color	Off			0%		00h				
	Correction	Color Temperature low to normal	0	255	0%	100%	001h	FFh	0		
	Zoom coarse	Zoom In	0	233	0%	10076	00h	1 1 11			
11	ZUUIII CUAISe	Zoom Out	255		100%		FFh		127		
12	Zoom Fine	Zoom In	0		0%		00h				
12		Zoom Out	255		100%		FFh		255		
		Off	0	0	0%	0%	00h	00h			
13	Strobe	Synchronous strobe slow to fast	1	100	0%	39%	001h	64h	4		
10		Random Random strobe	101	100	40%	<u> </u>	65h	B1h	0		
		Synchronous Random Strobe	178	254	70%	100%	B2h	FEh	Ĭ		
		Off	255	254	100%	100%	FFh	FFh	1		
14	Dim Coarse	Close	0	200	0%	10070	00h				
14	Dilli Cualse	Open	255		100%		FFh		0		
15	Dim Fine	Close	255		0%		00h				
15		Open	255		100%		FFh		0		
ł				2		10/		0.0 %			
16	Manaad			3		1%		USN			
10	wspeed								0		
16	Mspeed	Disable Longest (252.7 sec Shortest (0.15 sec			conds) 4	conds) 4 2%	conds) 4 2%	conds) 4 2% 04h	conds) 4 2% 04h		

SolaWash 37 Luminaire Reduced DMX Control Protocol *

		The Control channel should not be cros	ssfaded.	No shutter	[.] channel	requirem	ent.		
		Safe (normal operation)	0	9	0%	4%	00h	09h	1
		Reserved	10	19	4%	7%	0Ah	13h	
		Shutter channel to 0 for access to the following commands.							
		Display Off (send 20 packets)	20	28	8%	11%	14h	1Ch	1
17	Control	Display On (send 20 packets)	29	48	11%	19%	1Dh	30h	1
		Home All (send 20 packets)	49	68	19%	27%	31h	44h	1
		Shutdown (send 80 packets)	69	130	27%	51%	45h	82h	
		Position Home (send 20 packets)	131	140	51%	55%	83h	8Ch	1
		Other Motor Home (send 20 packets)	141	150	55%	59%	8Dh	96h	0
		Audio Sync (send 20 packets)	151	160	59%	63%	97h	A0h	0
		No shutter channel requirement.							
		Internal Prog 1 scene 1-8 EEPROM	161	171	63%	67%	A1h	ABh	
		Internal Prog 2 scene 9-16 EEPROM	172	182	67%	71%	ACh	B6h	
		Internal Prog 3 scene 17-24 EEPROM	183	193	72%	76%	B7h	C1h	
		Internal Prog 4 scene 25-32 EEPROM	194	204	76%	80%	C2h	CCh	
		Internal Prog 5 scene 33-40 EEPROM	205	215	80%	84%	CDh	D7h	
		Internal Prog 6 scene 41-48 EEPROM	216	226	85%	89%	D8h	E2h	
		Internal Prog 7 scene 49-56 EEPROM	227	237	89%	93%	E3h	EDh	
		TBD	238	255	93%	100%	EEh	FFh	
		Indigo Highlighter Dim Tracking Mode							
		Continuous	0	15	0%	6%	00h	0Fh	
		Periodic Strobe (slow to fast)	16	41	6%	16%	10h	29h	
		Random Strobe (slow to fast)	42	67	16%	26%	2Ah	43h	
18	Indigo Highlighter	TBD	68	127	27%	50%	44h	7Fh	0
	Function	Indigo Highlighter Independent Dim Mo	de						0
		Continuous	128	143	50%	56%	80h	8Fh	
		Periodic Strobe (slow to fast)	144	169	56%	66%	90h	A9h	
		Random Strobe (slow to fast)	170	195	67%	76%	AAh	C3h	
		TBD	196	255	77%	100%	C4h	FFh	
19	Indigo Highlighter	Indigo Highslighter Off	0		0%		00h		0
	Dim	Indigo Highlighter 100%	255		100%		FFh		U

Channel	Marketing Construct	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Console Defaults
1	Pan	Pan Coarse	0	255	0%	100%	00h	FFh	128
2	Pan	Pan Fine	0	255	0%	100%	00h	FFh	0
3	Tilt	Tilt Coarse	0	255	0%	100%	00h	FFh	128
4	Tilt	Tilt Fine	0	255	0%	100%	00h	FFh	0
5	Color	Off	0	233	0%	10076	00h	00h	0
5	Correction	Color Temperature low to normal	1	255	0%	100%	00h	FFh	0
6				200		100 %		ГГП	
6	Zoom coarse	Zoom In Zoom Out	0 255		0% 100%		00h FFh		127
7	Zoom Fine	Zoom In	255		0%		00h		
/	200m Fine	Zoom Out	255		100%		FFh		255
		Off		0		0%		006	
0	Strobo	- · ·	0	0	0%		00h	00h	
8	Strobe	Synchronous strobe slow to fast		100	0%	39%	01h	64h	0
		Random Random strobe	101	177 254	40%	69% 100%	65h B2h	B1h FEh	0
		Synchronous Random Strobe	178 255	254	70% 100%	100%	B2n FFh	FEN	
0				200		100%		FFN	
9	Dim Coarse	Close	0		0%		00h		0
10	D. E.	Open	255		100%		FFh		
10	Dim Fine	Close	0		0%		00h		0
		Open	255		100%		FFh		
		Disable	0	3	0%	1%	00h	03h	_
11	Mspeed	Longest (252.7 seconds)	4		2%		04h		0
		Shortest (0.15 seconds)	255		100%		FFh		
		The Control channel should not be cros	7						
12		Safe (normal operation)	0	9	0%	4%	00h	09h	
		Reserved	10	19	4%	7%	0Ah	13h	
		Shutter channel to 0 for access to the f							
		Display Off (send 20 packets)	20	28	8%	11%	14h	1Ch	
	Control	Display On (send 20 packets)	29	48	11%	19%	1Dh	30h	
		Home All (send 20 packets)	49	68	19%	27%	31h	44h	
		Shutdown (send 80 packets)	120	130	47%	51%	78h	82h	
		Position Home (send 20 packets)	131	140	51%	55%	83h	8Ch	
		Other Motor Home (send 20 packets)	141	150	55%	59%	8Dh	96h	0
		Audio Sync (send 20 packets)	151	160	59%	63%	97h	A0h	÷
		No shutter channel requirement.		· · - ·					
		Internal Prog 1 scene 1-8 EEPROM	161	171	63%	67%	A1h	ABh	
		Internal Prog 2 scene 9-16 EEPROM	172	182	67%	71%	ACh	B6h	
		Internal Prog 3 scene 17-24 EEPROM	183	193	72%	76%	B7h	C1h	
		Internal Prog 4 scene 25-32 EEPROM		204	76%	80%	C2h	CCh	
		Internal Prog 5 scene 33-40 EEPROM		215	80%	84%	CDh	D7h	
		Internal Prog 6 scene 41-48 EEPROM		226	85%	89%	D8h	E2h	
		Internal Prog 7 scene 49-56 EEPROM		237	89%	93%	E3h	EDh	
		TBD	238	255	93%	100%	EEh	FFh	
13	l	Red value for this LED	0	255	0%	100%	00h	FFh	
14	LED 1	Green value for this LED	0	255	0%	100%	00h	FFh	255
15	J	Blue value for this LED	0	255	0%	100%	00h	FFh	
16		White value for this LED	0	255	0%	100%	00h	FFh	0
17		Red value for this LED	0	255	0%	100%	00h	FFh	
18	LED 2	Green value for this LED	0	255	0%	100%	00h	FFh	255
19	1	Blue value for this LED	0	255	0%	100%	00h	FFh	
20	1	White value for this LED	0	255	0%	100%	00h	FFh	0
21		Red value for this LED	0	255	0%	100%	00h	FFh	
22	LED 3	Green value for this LED	0	255	0%	100%	00h	FFh	255
23	1	Blue value for this LED	0	255	0%	100%	00h	FFh	200
23	4	White value for this LED	0	255	0%	100%	00h	FFh	0
24	1	Red value for this LED	0	255					0
					0%	100%	00h	FFh	055
26	LED 4	Green value for this LED	0	255	0%	100%	00h	FFh	255
27	4	Blue value for this LED	0	255	0%	100%	00h	FFh	
28		White value for this LED	0	255	0%	100%	00h	FFh	0

SolaWash 37 Luminaire Mapping DMX Control Protocol *

00			0	055	00/	4000/		FFL	
29		Red value for this LED	0	255	0%	100%	00h	FFh	075
30	LED 5	Green value for this LED	0	255	0%	100%	00h	FFh	255
31		Blue value for this LED	0	255	0%	100%	00h	FFh	
32		White value for this LED	0	255	0%	100%	00h	FFh	0
33		Red value for this LED	0	255	0%	100%	00h	FFh	
34	LED 6	Green value for this LED	0	255	0%	100%	00h	FFh	255
35		Blue value for this LED	0	255	0%	100%	00h	FFh	
36		White value for this LED	0	255	0%	100%	00h	FFh	0
37		Red value for this LED	0	255	0%	100%	00h	FFh	
38	LED 7	Green value for this LED	0	255	0%	100%	00h	FFh	255
39	1	Blue value for this LED	0	255	0%	100%	00h	FFh	
40	1	White value for this LED	0	255	0%	100%	00h	FFh	0
41		Red value for this LED	0	255	0%	100%	00h	FFh	
42	LED 8	Green value for this LED	0	255	0%	100%	00h	FFh	255
43	1	Blue value for this LED	0	255	0%	100%	00h	FFh	
44		White value for this LED	0	255	0%	100%	00h	FFh	0
45		Red value for this LED	0	255	0%	100%	00h	FFh	ů.
46	LED 9	Green value for this LED	0	255	0%	100%	00h	FFh	255
47	1	Blue value for this LED	0	255	0%	100%	00h	FFh	200
48		White value for this LED	0	255	0%	100%	00h	FFh	0
49		Red value for this LED	0	255	0%	100%	00h	FFh	0
49 50	LED 10	Green value for this LED	0	255	0%	100%	00h	FFh	255
51		Blue value for this LED	0	255	0%	100%	00h	FFh	200
_	4		-						-
52		White value for this LED	0	255	0%	100%	00h	FFh	0
53		Red value for this LED	0	255	0%	100%	00h	FFh	055
54	LED 11	Green value for this LED	0	255	0%	100%	00h	FFh	255
55		Blue value for this LED	0	255	0%	100%	00h	FFh	
56		White value for this LED	0	255	0%	100%	00h	FFh	0
57		Red value for this LED	0	255	0%	100%	00h	FFh	
58	LED 12	Green value for this LED	0	255	0%	100%	00h	FFh	255
59		Blue value for this LED	0	255	0%	100%	00h	FFh	
60		White value for this LED	0	255	0%	100%	00h	FFh	0
61		Red value for this LED	0	255	0%	100%	00h	FFh	
62	LED 13	Green value for this LED	0	255	0%	100%	00h	FFh	255
63		Blue value for this LED	0	255	0%	100%	00h	FFh	
64		White value for this LED	0	255	0%	100%	00h	FFh	0
65		Red value for this LED	0	255	0%	100%	00h	FFh	
66	LED 14	Green value for this LED	0	255	0%	100%	00h	FFh	255
67		Blue value for this LED	0	255	0%	100%	00h	FFh	
68		White value for this LED	0	255	0%	100%	00h	FFh	0
69		Red value for this LED	0	255	0%	100%	00h	FFh	
70	LED 15	Green value for this LED	0	255	0%	100%	00h	FFh	255
71	1	Blue value for this LED	0	255	0%	100%	00h	FFh	
72	1	White value for this LED	0	255	0%	100%	00h	FFh	0
73		Red value for this LED	0	255	0%	100%	00h	FFh	
74	LED 16	Green value for this LED	0	255	0%	100%	00h	FFh	255
75	1	Blue value for this LED	0	255	0%	100%	00h	FFh	
76	1	White value for this LED	0	255	0%	100%	00h	FFh	0
77	1	Red value for this LED	0	255	0%	100%	00h	FFh	, j
78	LED 17	Green value for this LED	0	255	0%	100%	00h	FFh	255
70	1	Blue value for this LED	0	255	0%	100%	00h	FFh	_00
80	1	White value for this LED	0	255	0%	100%	00h	FFh	0
81		Red value for this LED	0	255	0%	100%	00h	FFh	0
82	LED 18	Green value for this LED	0	255	0%	100%	00h	FFh	255
83		Blue value for this LED	0	255	0%	100%	00h	FFh	200
	4								
84	 	White value for this LED	0	255	0%	100%	00h	FFh	0
85		Red value for this LED	0	255	0%	100%	00h	FFh	055
86	LED 19	Green value for this LED	0	255	0%	100%	00h	FFh	255
07									
87 88	1	Blue value for this LED White value for this LED	0	255 255	0% 0%	100% 100%	00h 00h	FFh FFh	0

			-			-			-
89		Red value for this LED	0	255	0%	100%	00h	FFh	
90	LED 20	Green value for this LED	0	255	0%	100%	00h	FFh	255
91		Blue value for this LED	0	255	0%	100%	00h	FFh	
92		White value for this LED	0	255	0%	100%	00h	FFh	0
93		Red value for this LED	0	255	0%	100%	00h	FFh	
94	LED 21	Green value for this LED	0	255	0%	100%	00h	FFh	255
95		Blue value for this LED	0	255	0%	100%	00h	FFh	
96		White value for this LED	0	255	0%	100%	00h	FFh	0
97		Red value for this LED	0	255	0%	100%	00h	FFh	-
98	LED 22	Green value for this LED	0	255	0%	100%	00h	FFh	255
99		Blue value for this LED	0	255	0%	100%	00h	FFh	
100		White value for this LED	0	255	0%	100%	00h	FFh	0
100		Red value for this LED	0	255	0%	100%	00h	FFh	0
101	LED 23	Green value for this LED	0	255	0%	100%	00h	FFh	255
102	LED 23	Blue value for this LED	0	255	0%	100%	00h	FFh	200
			-						<u>^</u>
104		White value for this LED	0	255	0%	100%	00h	FFh	0
105		Red value for this LED	0	255	0%	100%	00h	FFh	
106	LED 24	Green value for this LED	0	255	0%	100%	00h	FFh	255
107		Blue value for this LED	0	255	0%	100%	00h	FFh	
108		White value for this LED	0	255	0%	100%	00h	FFh	0
109		Red value for this LED	0	255	0%	100%	00h	FFh	
110	LED 25	Green value for this LED	0	255	0%	100%	00h	FFh	255
111		Blue value for this LED	0	255	0%	100%	00h	FFh	
112		White value for this LED	0	255	0%	100%	00h	FFh	0
113		Red value for this LED	0	255	0%	100%	00h	FFh	
114	LED 26	Green value for this LED	0	255	0%	100%	00h	FFh	255
115		Blue value for this LED	0	255	0%	100%	00h	FFh	
116		White value for this LED	0	255	0%	100%	00h	FFh	0
117		Red value for this LED	0	255	0%	100%	00h	FFh	Ŭ
118	LED 27	Green value for this LED	0	255	0%	100%	00h	FFh	255
119		Blue value for this LED	0	255	0%	100%	00h	FFh	200
120		White value for this LED	0	255	0%	100%	00h	FFh	0
120		Red value for this LED	0	255	0%	100%	00h	FFh	0
121	LED 28	Green value for this LED	0	255	0%	100%	00h	FFh	255
122	LED 20		0						255
-		Blue value for this LED White value for this LED	-	255	0% 0%	100%	00h	FFh	
124			0	255		100%	00h	FFh	0
125		Red value for this LED	0	255	0%	100%	00h	FFh	055
126	LED 29	Green value for this LED	0	255	0%	100%	00h	FFh	255
127		Blue value for this LED	0	255	0%	100%	00h	FFh	
128		White value for this LED	0	255	0%	100%	00h	FFh	0
129		Red value for this LED	0	255	0%	100%	00h	FFh	
130	LED 30	Green value for this LED	0	255	0%	100%	00h	FFh	255
131		Blue value for this LED	0	255	0%	100%	00h	FFh	
132		White value for this LED	0	255	0%	100%	00h	FFh	0
133		Red value for this LED	0	255	0%	100%	00h	FFh	
134	LED 31	Green value for this LED	0	255	0%	100%	00h	FFh	255
135		Blue value for this LED	0	255	0%	100%	00h	FFh	
136		White value for this LED	0	255	0%	100%	00h	FFh	0
137		Red value for this LED	0	255	0%	100%	00h	FFh	
138	LED 32	Green value for this LED	0	255	0%	100%	00h	FFh	255
139		Blue value for this LED	0	255	0%	100%	00h	FFh	
140		White value for this LED	0	255	0%	100%	00h	FFh	0
141		Red value for this LED	0	255	0%	100%	00h	FFh	- J
142	LED 33	Green value for this LED	0	255	0%	100%	00h	FFh	255
142		Blue value for this LED	0	255	0%	100%	00h	FFh	200
143		White value for this LED	0	255	0%	100%	00h	FFh	^
									0
145		Red value for this LED	0	255	0%	100%	00h	FFh	055
146	LED 34	Green value for this LED	0	255	0%	100%	00h	FFh	255
147		Blue value for this LED	0	255 255	0% 0%	100% 100%	00h	FFh FFh	
148		White value for this LED	0				00h		0

149		Red value for this LED	0	255	0%	100%	00h	FFh	
150	LED 35	Green value for this LED	0	255	0%	100%	00h	FFh	255
151		Blue value for this LED	0	255	0%	100%	00h	FFh	
152		White value for this LED	0	255	0%	100%	00h	FFh	0
153		Red value for this LED	0	255	0%	100%	00h	FFh	
154	LED 36	Green value for this LED	0	255	0%	100%	00h	FFh	255
155		Blue value for this LED	0	255	0%	100%	00h	FFh	
156		White value for this LED	0	255	0%	100%	00h	FFh	0
157		Red value for this LED	0	255	0%	100%	00h	FFh	
158	LED 37	Green value for this LED	0	255	0%	100%	00h	FFh	255
159		Blue value for this LED	0	255	0%	100%	00h	FFh	
160		White value for this LED	0	255	0%	100%	00h	FFh	0
		Indigo Highlighter Dim Tracking Mode							
		Continuous	0	15	0%	6%	00h	0Fh	
		Periodic Strobe (slow to fast)	16	41	6%	16%	10h	29h	
		Random Strobe (slow to fast)	42	67	16%	26%	2Ah	43h	
161	Indigo Highlighter	TBD	68	127	27%	50%	44h	7Fh	0
	Function	Indigo Highlighter Independent Dim Mo	ode						0
		Continuous	128	143	50%	56%	80h	8Fh	
		Periodic Strobe (slow to fast)	144	169	56%	66%	90h	A9h	
		Random Strobe (slow to fast)	170	195	67%	76%	AAh	C3h	
		TBD	196	255	77%	100%	C4h	FFh	
162	Indigo Highlighter	Indigo Highslighter Off	0		0%		00h		0
	Dim	Indigo Highlighter 100%	255		100%		FFh		U