

ETC Reference Guide

High End Systems SolaPix Fan 8 DMX Channel Map

SolaPix Fan 8 DMX Channel Map

Base Module	
Channel	Function
1	Pan Coarse
2	Pan Fine
3	Pan Mode
4	Tilt Coarse
5	Tilt Fine
6	Color Mode
7	Red
8	Green
9	Blue
10	White
11	Color Correction
12	Module Priority
13	Zoom Coarse
14	Zoom Fine
15	Strobe Mode
16	Strobe
17	Dimmer Coarse
18	Dimmer Fine
19	Background Color
20	Flex/Macro Mode
21	Flex/Macro Speed
22	Flex/Macro Crossfade
23	Flex/Macro nShot
24	mSpeed
25	Fan Speed
26	Control

Flex/Macro Module	
Channel	Function
1	Flex/Macro 1 - Red
2	Flex/Macro 1 - Green
3	Flex/Macro 1 - Blue
4	Flex/Macro 1 - White
5	Flex/Macro 2 - Red
6	Flex/Macro 2 - Green
7	Flex/Macro 2 - Blue
8	Flex/Macro 2 - White
9	Flex/Macro 3 - Red
10	Flex/Macro 3 - Green
11	Flex/Macro 3 - Blue
12	Flex/Macro 3 - White
13	Flex/Macro 4 - Red
14	Flex/Macro 4 - Green
15	Flex/Macro 4 - Blue
16	Flex/Macro 4 - White

Pixel Module	
Channel	Function
1	Pixel 1 - Red
2	Pixel 1 - Green
3	Pixel 1 - Blue
4	Pixel 1 - White
5	Pixel 2 - Red
6	Pixel 2 - Green
7	Pixel 2 - Blue
8	Pixel 2 - White
9	Pixel 3 - Red
10	Pixel 3 - Green
11	Pixel 3 - Blue
12	Pixel 3 - White
13	Pixel 4 - Red
14	Pixel 4 - Green
15	Pixel 4 - Blue
16	Pixel 4 - White
17	Pixel 5 - Red
18	Pixel 5 - Green
19	Pixel 5 - Blue
20	Pixel 5 - White
21	Pixel 6 - Red
22	Pixel 6 - Green
23	Pixel 6 - Blue
24	Pixel 6 - White
25	Pixel 7 - Red
26	Pixel 7 - Green
27	Pixel 7 - Blue
28	Pixel 7 - White
29	Pixel 8 - Red
30	Pixel 8 - Green
31	Pixel 8 - Blue
32	Pixel 8 - White

Wash Protocol			
Channel	Function	Channel	Function
1	Pan Coarse	9	White
2	Pan Fine	10	Color Correction
3	Pan Mode	11	Zoom
4	Tilt Coarse	12	Shutter/LED Function
5	Tilt Fine	13	Shutter
6	Red	14	Dimmer Coarse
7	Green	15	Dimmer Fine
8	Blue	16	Control



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Notes:

There are seven recommended library layouts based on the protocol and the settings of the Pixel module. We suggest that console libraries follow these guidelines:

1. Base
2. Base + Flex/Macro
3. Wash
4. Pixel
5. Base + Pixel
 - a. Base Control is on the source fixture number.
 - b. Pixel module should start with Pixel 1 as the .1 address.
 - c. Pixel RGBW control options utilize virtual console dimming when available. The dimmer control in Base is a source over all output including Base and the Pixel module.
6. Base + Flex/Macro + Pixel
 - a. Base Control is on the source fixture number.
 - b. Pixel module should start with Pixel 1 as the .1 address.
 - c. Flex/Macros 1 through 4 should be compound addresses .9, .10, .11, .12.
 - d. Flex/Macro and Pixel RGBW control options utilize virtual console dimming when available. The dimmer control in Base is a source over all output including Base +Flex and the Pixel module.
7. Wash + Pixel

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Base Module

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
1/2	Pan (Coarse/Fine)	Full Path & Quick Path Modes								32767
		See note 11 on page 13	0	65535	0%	100%	00h	FFFFh		
		Spin CW & Spin CCW Modes								0
		Stop	0	3	0%	1%	00h	03h		
		Slow to Fast	4	65535	2%	100%	04h	FFFFh		
3	Pan Mode (see note 11 on page 13)	Full Path	0	31	0%	12%	00h	1Fh	0	
		Quick Path	32	63	13%	25%	20h	3Fh		
		Spin CW	64	95	25%	37%	40h	5Fh		
		Spin CCW	96	127	38%	50%	60h	7Fh		
		Reserved (see note 3 on page 12)	128	255	50%	100%	80h	FFh		
4/5	Tilt (Coarse/Fine)	See note 11 on page 13	0	65535	0%	100%	00h	FFFFh	32767	
6	Color Mode	RGB	0	15	0%	6%	00h	0Fh	0	
		RBG	16	31	6%	12%	10h	1Fh		
		BRG	32	47	13%	18%	20h	2Fh		
		BGR	48	63	19%	25%	30h	3Fh		
		GRB	64	79	25%	31%	40h	4Fh		
		GBR	80	95	31%	37%	50h	5Fh		
		CMY	96	111	38%	44%	60h	6Fh		
		CYM	112	127	44%	50%	70h	7Fh		
		YCM	128	143	50%	56%	80h	8Fh		
		YMC	144	159	56%	62%	90h	9Fh		
		MCY	160	175	63%	69%	A0h	AFh		
		MYC	176	191	69%	75%	B0h	BFh		
		Cycle	192	207	75%	81%	C0h	CFh		
		Random	208	223	82%	87%	D0h	DFh		
		Reserved (see note 3 on page 12)	224	255	88%	100%	E0h	FFh		
7	Red	Off to Full	0	255	0%	100%	00h	FFh	255	
8	Green	Off to Full	0	255	0%	100%	00h	FFh	255	
9	Blue	Off to Full	0	255	0%	100%	00h	FFh	255	
10	White	Off to Full	0	255	0%	100%	00h	FFh	255	
11	Color Correction	Off	0	0	0%	0%	00h	00h	0	
		Warm to Cool	1	255	0%	100%	01h	FFh		
12	Module Priority (see note 12 on page 13)	Pixel over Flex/Macro over Base	0	7	0%	3%	00h	07h	8	
		Flex/Macro over Pixel over Base	8	15	3%	6%	08h	0Fh		
		Pixel over Base	16	23	6%	9%	10h	17h		
		Flex/Macro over Base	24	31	9%	12%	18h	1Fh		
		Base	32	39	13%	15%	20h	27h		
		Pixel	40	47	16%	18%	28h	2Fh		
		Reserved (see note 3 on page 12)	48	255	19%	100%	30h	FFh		
13/14	Zoom (Coarse/Fine)	Narrow to Wide	0	65535	0%	100%	00h	FFFFh	0	

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults		
15	Strobe Mode	Off	0	15	0%	6%	00h	0Fh	0		
		Synchronous	16	31	6%	12%	10h	1Fh			
		Random	32	47	13%	18%	20h	2Fh			
		Random Pixel	48	63	19%	25%	30h	3Fh			
		Random Pixel/Color	64	79	25%	31%	40h	4Fh			
		Synchronous Random	80	95	31%	37%	50h	5Fh			
		Reserved (see note 3 on page 12)	96	255	38%	100%	60h	FFh			
16	Strobe Rate	Off	0	23	0%	9%	00h	17h	255		
		Strobe Rate (Slow to Fast)	24	229	9%	90%	18h	E5h			
		Open	230	255	90%	100%	E6h	FFh			
17/18	Dimmer (Coarse/Fine)	Off to Full	0	65535	0%	100%	00h	FFFFh	65535		
19	Background Color (see note 7 on page 12)	Off	0	1	0%	0%	00h	01h	0		
		Background Dim Tracking Mode (see note 6 on page 12)									
		Red Background Color									
		DMX 8	2	3	1%	1%	02h	03h			
		DMX 12	4	5	2%	2%	04h	05h			
		DMX 15	6	7	2%	3%	06h	07h			
		DMX 20	8	9	3%	4%	08h	09h			
		DMX 25	10	11	4%	4%	0Ah	0Bh			
		DMX 30	12	13	5%	5%	0Ch	0Dh			
		Green Background Color									
		DMX 8	14	15	5%	6%	0Eh	0Fh			
		DMX 12	16	17	6%	7%	10h	11h			
		DMX 15	18	19	7%	7%	12h	13h			
		DMX 20	20	21	8%	8%	14h	15h			
		DMX 25	22	23	9%	9%	16h	17h			
		DMX 30	24	25	9%	10%	18h	19h			
		Blue Background Color									
		DMX 8	26	27	10%	11%	1Ah	1Bh			
		DMX 12	28	29	11%	11%	1Ch	1Dh			
		DMX 15	30	31	12%	12%	1Eh	1Fh			
		DMX 20	32	33	13%	13%	20h	21h			
		DMX 25	34	35	13%	14%	22h	23h			
		DMX 30	36	37	14%	15%	24h	25h			
		Cyan Background Color									
		DMX 8	38	39	15%	15%	26h	27h			
		DMX 12	40	41	16%	16%	28h	29h			
		DMX 15	42	43	16%	17%	2Ah	2Bh			
		DMX 20	44	45	17%	18%	2Ch	2Dh			
		DMX 25	46	47	18%	18%	2Eh	2Fh			
		DMX 30	48	49	19%	19%	30h	31h			
		Magenta Background Color									
		DMX 8	50	51	20%	20%	32h	33h			
		DMX 12	52	53	20%	21%	34h	35h			

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults		
19 (continued)	Background Color (see note 7 on page 12)	DMX 15	54	55	21%	22%	36h	37h	0		
		DMX 20	56	57	22%	22%	38h	39h			
		DMX 25	58	59	23%	23%	3Ah	3Bh			
		DMX 30	60	61	24%	24%	3Ch	3Dh			
		Yellow Background Color									
		DMX 8	62	63	24%	25%	3Eh	3Fh			
		DMX 12	64	65	25%	25%	40h	41h			
		DMX 15	66	67	26%	26%	42h	43h			
		DMX 20	68	69	27%	27%	44h	45h			
		DMX 25	70	71	27%	28%	46h	47h			
		DMX 30	72	73	28%	29%	48h	49h			
		White Background Color (see 8 on page 12)									
		DMX 8	74	75	29%	29%	4Ah	4Bh			
		DMX 12	76	77	30%	30%	4Ch	4Dh			
		DMX 15	78	79	31%	31%	4Eh	4Fh			
		DMX 20	80	81	31%	32%	50h	51h			
		DMX 25	82	83	32%	33%	52h	53h			
		DMX 30	84	85	33%	33%	54h	55h			
		Reserved (see note 3 on page 12)	86	127	34%	50%	56h	7Fh			
		Independent Dim Mode (see note 9 on page 12)									
		Red Background Color									
		DMX 8	128	129	50%	51%	80h	81h			
		DMX 12	130	131	51%	51%	82h	83h			
		DMX 15	132	133	52%	52%	84h	85h			
		DMX 20	134	135	53%	53%	86h	87h			
		DMX 25	136	137	53%	54%	88h	89h			
		DMX 30	138	139	54%	55%	8Ah	8Bh			
		Green Background Color									
		DMX 8	140	141	55%	55%	8Ch	8Dh			
		DMX 12	142	143	56%	56%	8Eh	8Fh			
		DMX 15	144	145	56%	57%	90h	91h			
		DMX 20	146	147	57%	58%	92h	93h			
		DMX 25	148	149	58%	58%	94h	95h			
		DMX 30	150	151	59%	59%	96h	97h			
		Blue Background Color									
		DMX 8	152	153	60%	60%	98h	99h			
		DMX 12	154	155	60%	61%	9Ah	9Bh			
		DMX 15	156	157	61%	62%	9Ch	9Dh			
		DMX 20	158	159	62%	62%	9Eh	9Fh			
		DMX 25	160	161	63%	63%	A0h	A1h			
		DMX 30	162	163	64%	64%	A2h	A3h			
		Cyan Background Color									
DMX 8	164	165	64%	65%	A4h	A5h					
DMX 12	166	167	65%	65%	A6h	A7h					
DMX 15	168	169	66%	66%	A8h	A9h					

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults			
19 (continued)	Background Color (see note 7 on page 12)	DMX 20	170	171	67%	67%	AAh	ABh	0			
		DMX 25	172	173	67%	68%	ACh	ADh				
		DMX 30	174	175	68%	69%	AEnh	AFh				
		Magenta Background Color										
		DMX 8	176	177	69%	69%	B0h	B1h				
		DMX 12	178	179	70%	70%	B2h	B3h				
		DMX 15	180	181	71%	71%	B4h	B5h				
		DMX 20	182	183	71%	72%	B6h	B7h				
		DMX 25	184	185	72%	73%	B8h	B9h				
		DMX 30	186	187	73%	73%	BAh	BBh				
		Yellow Background Color										
		DMX 8	188	189	74%	74%	BCh	BDh				
		DMX 12	190	191	75%	75%	BEh	BFh				
		DMX 15	192	193	75%	76%	C0h	C1h				
		DMX 20	194	195	76%	76%	C2h	C3h				
		DMX 25	196	197	77%	77%	C4h	C5h				
		DMX 30	198	199	78%	78%	C6h	C7h				
		White Background Color (see 8 on page 12)										
		DMX 8	200	201	78%	79%	C8h	C9h				
		DMX 12	202	203	79%	80%	CAh	CBh				
		DMX 15	204	205	80%	80%	CCh	CDh				
		DMX 20	206	207	81%	81%	CEh	CFh				
		DMX 25	208	209	82%	82%	D0h	D1h				
		DMX 30	210	211	82%	83%	D2h	D3h				
		Reserved (see note 3 on page 12)	212	255	83%	100%	D4h	FFh				
		20	Flex/Macro Mode (see note 4 on page 12)	Macro Off	0	0	0%	0%		00h	00h	0
				Inclusive Macro 1	1	1	0%	0%		01h	01h	
...												
Inclusive Macro 85	85			85	33%	33%	55h	55h				
Reserved (see note 3 on page 12)	86			127	34%	50%	56h	7Fh				
Flex Macro 1	128			128	50%	50%	80h	80h				
...												
Flex Macro 36	162			162	64%	64%	A2h	A2h				
Reserved (see note 3 on page 12)	163	255	64%	100%	A3h	FFh						
21	Flex/Macro Speed	Reverse Play Speed Fast to x1	0	62	0%	24%	00h	3Eh	192			
		Reverse Play Speed x1	63		25%	0%	3Fh	00h				
		Reverse Play Speed x1 to Slow	64	126	25%	49%	40h	7Eh				
		Stop	127	128	50%	50%	7Fh	80h				
		Forward Play Speed Slow to x1	129	191	51%	75%	81h	BFh				
		Forward Play Speed x1	192		75%	0%	C0h	00h				
		Forward Play Speed x1 to Fast	193	255	76%	100%	C1h	FFh				
22	Flex/Macro Crossfade (see note 4 on page 12)	Stop	0	0	0%	0%	00h	00h	0			
		5 s to 0.15 s	1	255	0%	100%	01h	FFh				

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
23	Flex/Macro nShot (see note 13 on page 13)	Off	0	0	0%	0%	00h	00h	255	
		1 Shot	1	9	0%	4%	01h	09h		
		2 Shot	10	19	4%	7%	0Ah	13h		
		3 Shot	20	29	8%	11%	14h	1Dh		
		4 Shot	30	39	12%	15%	1Eh	27h		
		5 Shot	40	49	16%	19%	28h	31h		
		Reserved (see note 3 on page 12)	50	254	20%	100%	32h	FEh		
		Continuous Run	255	255	100%	100%	FFh	FFh		
24	mSpeed	Off	0	3	0%	1%	00h	03h	0	
		Slow to Fast	4	255	2%	100%	04h	FFh		
25	Fan Speed Control (see note 2 on page 12)	Idle	0	9	0%	4%	00h	09h	0	
		Slow to Fast	10	215	4%	84%	0Ah	D7h		
		Auto	216	225	85%	88%	D8h	E1h		
		Studio	226	235	89%	92%	E2h	EBh		
		Reserved (see note 3 on page 12)	236	255	93%	100%	ECh	FFh		
26	Control	The Control channel should not be crossfaded. No shutter channel requirement.								
		Safe (Normal Operation)	0	9	0%	4%	00h	09h	0	
		Reserved (see note 3 on page 12)	10	19	4%	7%	0Ah	13h		
		Display Off (3 s)	20	29	8%	11%	14h	1Dh		
		Display On (3 s)	30	39	12%	15%	1Eh	27h		
		Reserved (see note 3 on page 12)	40	49	16%	19%	28h	31h		
		Home All (3 s)	50	59	20%	23%	32h	3Bh		
		Shutdown (9 s) (see note 5 on page 12)	60	69	24%	27%	3Ch	45h		
		Red Shift Off (3 s)	70	79	27%	31%	46h	4Fh		
		Red Shift On (3 s)	80	89	31%	35%	50h	59h		
		LED PWM 2.4 kHz (3 s)	90	99	35%	39%	5Ah	63h		
		LED PWM 16 kHz (3 s)	100	109	39%	43%	64h	6Dh		
		Independent Base Intensity (3 s)	110	119	43%	47%	6Eh	77h		
		Master Base Intensity (3 s)	120	129	47%	51%	78h	81h		
		Module Mirror (3 s) (see note 12 on page 13)	130	139	51%	55%	82h	8Bh		
Reserved (see note 3 on page 12)	140	255	55%	100%	8Ch	FFh				

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Flex/Macro Module

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
1	Flex/Macro 1 - Red	Off to Full	0	255	0%	100%	00h	FFh	255
2	Flex/Macro 1 - Green	Off to Full	0	255	0%	100%	00h	FFh	
3	Flex/Macro 1 - Blue	Off to Full	0	255	0%	100%	00h	FFh	
4	Flex/Macro 1 - White	Off to Full	0	255	0%	100%	00h	FFh	
5	Flex/Macro 2 - Red	Off to Full	0	255	0%	100%	00h	FFh	
6	Flex/Macro 2 - Green	Off to Full	0	255	0%	100%	00h	FFh	
7	Flex/Macro 2 - Blue	Off to Full	0	255	0%	100%	00h	FFh	
8	Flex/Macro 2 - White	Off to Full	0	255	0%	100%	00h	FFh	
9	Flex/Macro 3 - Red	Off to Full	0	255	0%	100%	00h	FFh	
10	Flex/Macro 3 - Green	Off to Full	0	255	0%	100%	00h	FFh	
11	Flex/Macro 3 - Blue	Off to Full	0	255	0%	100%	00h	FFh	
12	Flex/Macro 3 - White	Off to Full	0	255	0%	100%	00h	FFh	
13	Flex/Macro 4 - Red	Off to Full	0	255	0%	100%	00h	FFh	
14	Flex/Macro 4 - Green	Off to Full	0	255	0%	100%	00h	FFh	
15	Flex/Macro 4 - Blue	Off to Full	0	255	0%	100%	00h	FFh	
16	Flex/Macro 4 - White	Off to Full	0	255	0%	100%	00h	FFh	

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Pixel Module

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
1	Pixel 1 - Red	Off to Full	0	255	0%	100%	00h	FFh	255
2	Pixel 1 - Green	Off to Full	0	255	0%	100%	00h	FFh	
3	Pixel 1 - Blue	Off to Full	0	255	0%	100%	00h	FFh	
4	Pixel 1 - White	Off to Full	0	255	0%	100%	00h	FFh	
5	Pixel 2 - Red	Off to Full	0	255	0%	100%	00h	FFh	
6	Pixel 2 - Green	Off to Full	0	255	0%	100%	00h	FFh	
7	Pixel 2 - Blue	Off to Full	0	255	0%	100%	00h	FFh	
8	Pixel 2 - White	Off to Full	0	255	0%	100%	00h	FFh	
9	Pixel 3 - Red	Off to Full	0	255	0%	100%	00h	FFh	
10	Pixel 3 - Green	Off to Full	0	255	0%	100%	00h	FFh	
11	Pixel 3 - Blue	Off to Full	0	255	0%	100%	00h	FFh	
12	Pixel 3 - White	Off to Full	0	255	0%	100%	00h	FFh	
13	Pixel 4 - Red	Off to Full	0	255	0%	100%	00h	FFh	
14	Pixel 4 - Green	Off to Full	0	255	0%	100%	00h	FFh	
15	Pixel 4 - Blue	Off to Full	0	255	0%	100%	00h	FFh	
16	Pixel 4 - White	Off to Full	0	255	0%	100%	00h	FFh	
17	Pixel 5 - Red	Off to Full	0	255	0%	100%	00h	FFh	
18	Pixel 5 - Green	Off to Full	0	255	0%	100%	00h	FFh	
19	Pixel 5 - Blue	Off to Full	0	255	0%	100%	00h	FFh	
20	Pixel 5 - White	Off to Full	0	255	0%	100%	00h	FFh	
21	Pixel 6 - Red	Off to Full	0	255	0%	100%	00h	FFh	
22	Pixel 6 - Green	Off to Full	0	255	0%	100%	00h	FFh	
23	Pixel 6 - Blue	Off to Full	0	255	0%	100%	00h	FFh	
24	Pixel 6 - White	Off to Full	0	255	0%	100%	00h	FFh	
25	Pixel 7 - Red	Off to Full	0	255	0%	100%	00h	FFh	
26	Pixel 7 - Green	Off to Full	0	255	0%	100%	00h	FFh	
27	Pixel 7 - Blue	Off to Full	0	255	0%	100%	00h	FFh	
28	Pixel 7 - White	Off to Full	0	255	0%	100%	00h	FFh	
29	Pixel 8 - Red	Off to Full	0	255	0%	100%	00h	FFh	
30	Pixel 8 - Green	Off to Full	0	255	0%	100%	00h	FFh	
31	Pixel 8 - Blue	Off to Full	0	255	0%	100%	00h	FFh	
32	Pixel 8 - White	Off to Full	0	255	0%	100%	00h	FFh	

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Wash Protocol

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Default	
1/2	Pan (Coarse/Fine)	Full Path & Quick Path Modes								32767
		See note 11 on page 13	0	65535	0%	100%	00h	FFFFh		
		Spin CW & Spin CCW Modes								0
		Stop	0	3	0%	1%	00h	03h		
3	Pan Mode (see note 11 on page 13)	Full Path	0	31	0%	12%	00h	1Fh	0	
		Quick Path	32	63	13%	25%	20h	3Fh		
		Spin CW	64	95	25%	37%	40h	5Fh		
		Spin CCW	96	127	38%	50%	60h	7Fh		
		Reserved (see note 3 on page 12)	128	255	50%	100%	80h	FFh		
4/5	Tilt (Coarse/Fine)	See note 11 on page 13	0	65535	0%	100%	00h	FFFFh	32767	
6	Red	Red Off to On	0	255	0%	100%	00h	FFh	255	
7	Green	Green Off to On	0	255	0%	100%	00h	FFh	255	
8	Blue	Blue Off to On	0	255	0%	100%	00h	FFh	255	
9	White	White Off to On	0	255	0%	100%	00h	FFh	255	
10	Color Correction	Off	0	0	0%	0%	00h	00h	0	
		Warm to Cool	1	255	0%	100%	01h	FFh		
11	Zoom	Narrow to Wide	0	65535	0%	100%	00h	FFFFh	65535	
12	Shutter/ LED Functions	Off	0	15	0%	6%	00h	0Fh	0	
		Synchronous	16	31	6%	12%	10h	1Fh		
		Random	32	47	13%	18%	20h	2Fh		
		Random Pixel	48	63	19%	25%	30h	3Fh		
		Random Pixel/Color	64	79	25%	31%	40h	4Fh		
		Synchronous Random	80	95	31%	37%	50h	5Fh		
		Reserved (see note 3 on page 12)	96	255	38%	100%	60h	FFh		
13	Shutter	Close	0	23	0%	9%	00h	17h	255	
		Strobe Rate (Slow to Fast)	24	229	9%	90%	18h	E5h		
		Open	230	255	90%	100%	E6h	FFh		
14/15	Dimmer (Coarse/Fine)	Off to Full	0	65535	0%	100%	00h	FFFFh	65535	

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Default	
16	Control	The Control channel should not be crossfaded. No hold time requirement for the following:								0
		Safe (Normal Operation)	0	9	0%	4%	00h	09h		
		Reserved (see note 3 on page 12)	10	19	4%	7%	0Ah	13h		
		Hold time requirement for the following functions:								
		Display Off (3 s)	20	29	8%	11%	14h	1Dh		
		Display On (3 s)	30	39	12%	15%	1Eh	27h		
		Reserved (see note 3 on page 12)	40	49	16%	19%	28h	31h		
		Home All (3 s)	50	59	20%	23%	32h	3Bh		
		Shutdown (9 s)	60	69	24%	27%	3Ch	45h		
		Red Shift Off (3 s)	70	79	27%	31%	46h	4Fh		
		Red Shift On (3 s)	80	89	31%	35%	50h	59h		
		LED PWM 2.4 kHz (3 s)	90	99	35%	39%	5Ah	63h		
		LED PWM 16 kHz (3 s)	100	109	39%	43%	64h	6Dh		
		Auto Fan Mode (3 s) (see note 2 on page 12)	110	119	43%	47%	6Eh	77h		
		Studio Fan Mode (3 s) (see note 2 on page 12)	120	129	47%	51%	78h	81h		
Reserved (see note 3 on page 12)	130	255	51%	100%	82h	FFh				

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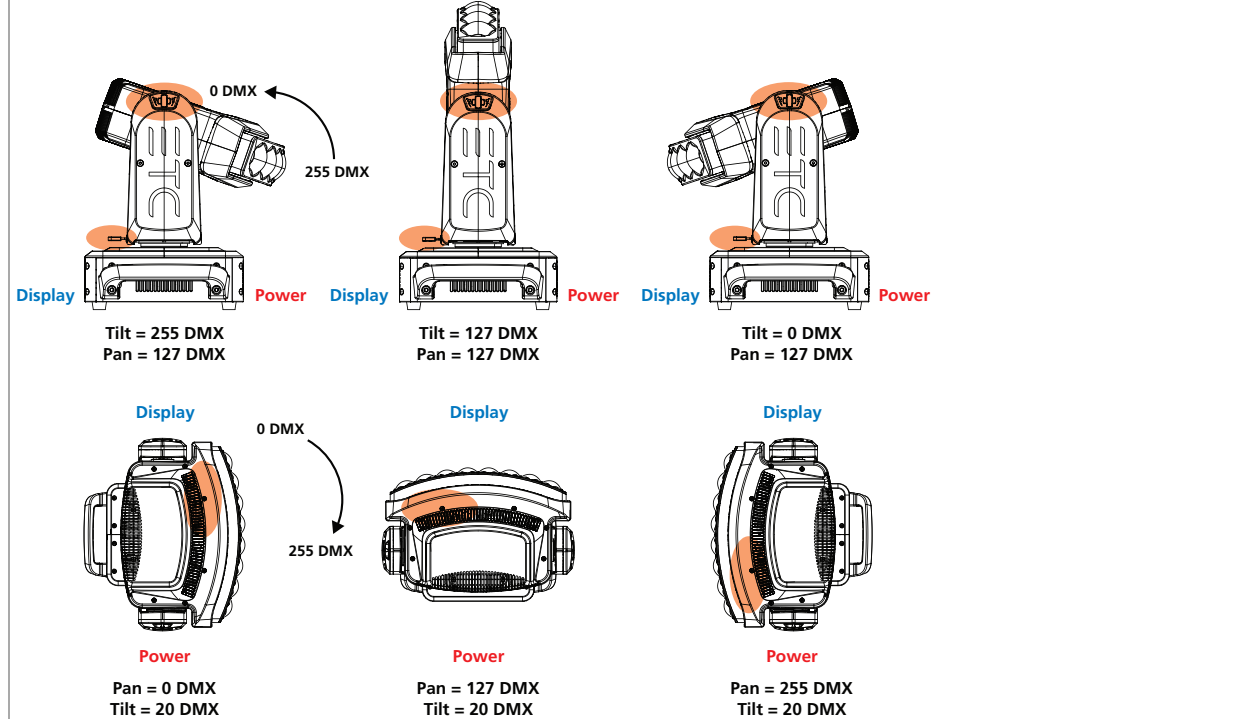

SolaPix Fan 8 DMX Channel Map

Notes

1	<p>Output Control</p> <ul style="list-style-type: none"> • Base – output is controlled by the Base Module RGBW + Color Correction • Macro – output is controlled by the Flex/Macro Module • Pixel – output is controlled by the Pixel Module 								
2	<p>Fan Speed Control</p> <ul style="list-style-type: none"> • Base Module <ul style="list-style-type: none"> - "Idle" and "Slow to Fast" modes may be crossfaded, or values may be directly entered with immediate effect. - "Auto" and "Studio" modes are entered by starting at "Idle" and directly entering the range you want to use. After a short pause, the mode is activated. - "Auto" and "Studio" modes are retained upon loss of power. - "Slow to Fast" mode is not retained upon loss of power and is only active while the fixture is receiving a DMX value in this range. • Wash Protocol <ul style="list-style-type: none"> - "Auto" and "Studio" modes are retained upon loss of power. 								
3	Reserved ranges should function according to the controller default value.								
4	<p>There are 255 predefined Inclusive and Flex macros. The macros require the Flex/Macro Speed and Flex/Macro Crossfade channels.</p> <ul style="list-style-type: none"> • The Inclusive macros (macros 1–127) are all-inclusive and include color, background, strobe, and timing data. They do not include pan, pan mode, tilt, mix color function, zoom, or fan control data. • The Flex macros (macros 128–255) do not include color or timing data. <p>Playback Speed Operation</p> <table border="1"> <thead> <tr> <th>Channel</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0–126</td> <td>Reverse playback fast to slow</td> </tr> <tr> <td>127–128</td> <td>Stop playback</td> </tr> <tr> <td>129–255</td> <td>Forward playback slow to fast</td> </tr> </tbody> </table> <p>Crossfade Operation</p> <p>Crossfade time controls the speed at which a macro fades from one step of the effect to the next step. Lower speeds mean a slower transition; higher speeds approach a zero-second transition.</p>	Channel	Description	0–126	Reverse playback fast to slow	127–128	Stop playback	129–255	Forward playback slow to fast
Channel	Description								
0–126	Reverse playback fast to slow								
127–128	Stop playback								
129–255	Forward playback slow to fast								
5	The Shutdown command moves the zoom position to wide (DMX 0) prior to shutting down the fixture.								
6	Dim Tracking mode tracks the Dimmer channel. When the Dimmer channel is at 0, the background color will turn off.								
7	Background color is always on when enabled. The minimum intensity remains during macros and channel operation. The DMX number describes the intensity of the specified color.								
8	White background color uses only the white LEDs, not RGB.								
9	Independent Dim Mode does not track with the Dimmer channel. When the Dimmer channel is at 0, the selected color remains on.								
10	<p>Face layout: Pan = 127 DMX; Tilt = 20 DMX (Note how the fixture head is oriented in relation to the pan and tilt locks.)</p> <p>The diagram shows the fixture head with 8 numbered sectors (1-8) and a corresponding legend for the sectors. The legend shows Sector 1 (red), Sector 2 (blue), Sector 3 (yellow), and Sector 4 (purple).</p>								

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11	<p>Pan Movement Range: 540°. Tilt Movement Range: 207°. Full Path Pan mode uses a 540° range to move between positions. Quick Path Pan mode uses a 360° range and takes the shortest path to the target position. Spin CW mode provides continuous rotation clockwise. Spin CCW mode provides continuous rotation counterclockwise.</p> <p>DMX Fixture Orientation (Pan and tilt lock locations are highlighted in orange)</p>  <p>Front View DMX Channel Maps:</p> <ul style="list-style-type: none"> Left: Tilt = 255 DMX, Pan = 127 DMX Middle: Tilt = 127 DMX, Pan = 127 DMX Right: Tilt = 0 DMX, Pan = 127 DMX <p>Top View DMX Channel Maps:</p> <ul style="list-style-type: none"> Left: Pan = 0 DMX, Tilt = 20 DMX Middle: Pan = 127 DMX, Tilt = 20 DMX Right: Pan = 255 DMX, Tilt = 20 DMX
12	<p>Module Mirror affects all module parameters (Red, Green, Blue, White, Function, and Dimming).</p>  <p>Pixel 1 maps to Pixel 8 Pixel 2 maps to Pixel 7 Pixel 3 maps to Pixel 6 Pixel 4 maps to Pixel 5</p> <p>Mirror Axis</p> <p>Pixel 5 maps to Pixel 4 Pixel 6 maps to Pixel 3 Pixel 7 maps to Pixel 2 Pixel 8 maps to Pixel 1</p>
13	<p>Macro nShot causes macros to fire 'n' number of times. The macro runs 'n' number of times through all programmed steps. 0 turns macros off. 255 runs macros continuously. The nShot value must change to re-trigger. If the change in nShot value is to 0, nShot will reset and the selected macro will not run until the nShot value changes to a trigger value. If the change in nShot value is to 255, the selected macro will then run continuously.</p>
14	<p>RDM Manufacturer ID: 0x4c52</p>
15	<p>RDM Device ID: 0x2F09</p>

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Revision History

Revision	Change	Release Date
A	Initial release.	October 2024