

# ETC Reference Guide

## High End Systems SolaFrame 3000 DMX Channel Map

### SolaFrame 3000 DMX Channel Map

(Firmware Version 1.3.14 and Later)

Standard Protocol					
Channel	Function	Channel	Function	Channel	Function
1	Pan Coarse	18	Gobo 2 Position	35	Focus Fine
2	Pan Fine	19	Blade 1 Angle A	36	Zoom Coarse
3	Tilt Coarse	20	Blade 1 Angle B	37	Zoom Fine
4	Tilt Fine	21	Blade 2 Angle A	38	Auto Focus
5	Mix Color Function	22	Blade 2 Angle B	39	Auto Focus Fine
6	Cyan	23	Blade 3 Angle A	40	Iris
7	Magenta	24	Blade 3 Angle B	41	Shutter/LED Functions
8	Yellow	25	Blade 4 Angle A	42	Shutter/LED
9	CTO	26	Blade 4 Angle B	43	Dimmer Coarse
10	Static Color Function	27	Frame Rotation Course	44	Dimmer Fine
11	Static Color Position	28	Frame Rotation Fine	45	LED Animation
12	Gobo 1 Function	29	Animation Function	46	LED Animation Speed
13	Gobo 1 Position	30	Prism Function	47	LED Animation Xfade
14	Gobo 1 Rotate Function	31	Prism Rotate Coarse	48	Mspeed
15	Gobo 1 Rotate Coarse	32	Prism Rotate Fine	49	Control
16	Gobo 1 Rotate Fine	33	Diffusion		
17	Gobo 2 Function	34	Focus Coarse		



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Product information and specifications subject to change. ETC intends this document to be provided in its entirety.

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## SolaFrame 3000 DMX Channel Map

Enhanced Protocol					
Channel	Function	Channel	Function	Channel	Function
1	Pan Coarse	18	Gobo 2 Position	35	Focus Coarse
2	Pan Fine	19	Blade 1 Angle A	36	Focus Fine
3	Tilt Coarse	20	Blade 1 Angle B	37	Zoom Coarse
4	Tilt Fine	21	Blade 2 Angle A	38	Zoom Fine
5	Mix Color Function	22	Blade 2 Angle B	39	Auto Focus
6	Cyan	23	Blade 3 Angle A	40	Auto Focus Fine
7	Magenta	24	Blade 3 Angle B	41	Iris
8	Yellow	25	Blade 4 Angle A	42	Shutter/LED Functions
9	CTO	26	Blade 4 Angle B	43	Shutter/LED
10	Static Color Function	27	Frame Rotation Course	44	Dimmer Coarse
11	Static Color Position	28	Frame Rotation Fine	45	Dimmer Fine
12	Gobo 1 Function	29	Animation Function	46	LED Animation
13	Gobo 1 Position	30	Animation Rotate	47	LED Animation Speed
14	Gobo 1 Rotate Function	31	Prism Function	48	LED Animation Xfade
15	Gobo 1 Rotate Coarse	32	Prism Rotate Coarse	49	Mspeed
16	Gobo 1 Rotate Fine	33	Prism Rotate Fine	50	Control
17	Gobo 2 Function	34	Diffusion	51	Fan Speed

Enhanced Dual Diffusion Protocol					
Channel	Function	Channel	Function	Channel	Function
1	Pan Coarse	18	Gobo 2 Position	35	Focus Coarse
2	Pan Fine	19	Blade 1 Angle A	36	Focus Fine
3	Tilt Coarse	20	Blade 1 Angle B	37	Zoom Coarse
4	Tilt Fine	21	Blade 2 Angle A	38	Zoom Fine
5	Mix Color Function	22	Blade 2 Angle B	39	Auto Focus
6	Cyan	23	Blade 3 Angle A	40	Auto Focus Fine
7	Magenta	24	Blade 3 Angle B	41	Iris
8	Yellow	25	Blade 4 Angle A	42	Shutter/LED Functions
9	CTO	26	Blade 4 Angle B	43	Shutter/LED
10	Static Color Function	27	Frame Rotation Course	44	Dimmer Coarse
11	Static Color Position	28	Frame Rotation Fine	45	Dimmer Fine
12	Gobo 1 Function	29	Animation Function	46	LED Animation
13	Gobo 1 Position	30	Animation Rotate	47	LED Animation Speed
14	Gobo 1 Rotate Function	31	Reserved	48	LED Animation Xfade
15	Gobo 1 Rotate Coarse	32	Diffusion 2	49	Mspeed
16	Gobo 1 Rotate Fine	33	Reserved	50	Control
17	Gobo 2 Function	34	Diffusion 1	51	Fan Speed

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## SolaFrame 3000 DMX Channel Map

### SolaFrame 3000 Standard Protocol

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
1 / 2	Pan (Coarse / Fine)	See note <a href="#">7 on page 28</a>	0	65535	0%	100%	0000h	FFFFh	32512	
3 / 4	Tilt (Coarse / Fine)	See note <a href="#">7 on page 28</a>	0	65535	0%	100%	0000h	FFFFh	32512	
5	Mix Color Function	Pure Mix	0	31	0%	12%	00h	1Fh	0	
		Cycle	32	47	13%	18%	20h	2Fh		
		Random	48	63	19%	25%	30h	3Fh		
		Reserved (see note <a href="#">5 on page 27</a> )	64	255	25%	100%	40h	FFh		
6	Cyan	<b>Pure Mix</b>								255
		Full Saturation to Open	0	255	0%	100%	00h	FFh		
		<b>Cycle and Random</b>								0
Slow to Fast	0	255	0%	100%	00h	FFh				
7	Magenta	Full Saturation to Open	0	255	0%	100%	00h	FFh	255	
8	Yellow	Full Saturation to Open	0	255	0%	100%	00h	FFh	255	
9	CTO	Full Saturation to Open	0	255	0%	100%	00h	FFh	255	
10	Static Color Function	Indexed	0	15	0%	6%	00h	0Fh	48	
		Forward Spin	16	31	6%	12%	10h	1Fh		
		Reverse Spin	32	47	13%	18%	20h	2Fh		
		Continuous (see note <a href="#">1 on page 27</a> )	48	63	19%	25%	30h	3Fh		
		Fast Scan	64	79	25%	31%	40h	4Fh		
		Random	80	95	31%	37%	50h	5Fh		
		Reserved (see note <a href="#">5 on page 27</a> )	96	255	38%	100%	60h	FFh		

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## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
11	Static Color Position	<b>Indexed Modes</b>								
		1. Open (White)	0	16	0%	6%	00h	10h	0	
		2. Open/Red	17	32	7%	13%	11h	20h		
		3. Red	33	48	13%	19%	21h	30h		
		4. Red/Blue	49	64	19%	25%	31h	40h		
		5. Blue	65	80	25%	31%	41h	50h		
		6. Blue/Green	81	96	32%	38%	51h	60h		
		7. Green	97	112	38%	44%	61h	70h		
		8. Green/TM-30	113	128	44%	50%	71h	80h		
		9. TM-30	129	144	51%	56%	81h	90h		
		10. TM-30/Orange	145	160	57%	63%	91h	A0h		
		11. Orange	161	176	63%	69%	A1h	B0h		
		12. Orange/Dark Blue)	177	192	69%	75%	B1h	C0h		
		13. Dark Blue	193	208	76%	82%	C1h	D0h		
		14. Dark Blue/Open	209	224	82%	88%	D1h	E0h		
		1. Open (White)	225	255	88%	100%	E1h	FFh		
		<b>Scan Modes</b>								
		1. Open/Red	0	32	0%	13%	00h	20h		
		2. Red/Blue	33	64	13%	25%	21h	40h		
		3. Blue/Green	65	96	25%	38%	41h	60h		
		4. Green/TM-30	97	128	38%	50%	61h	80h		
		5. TM-30/Orange	129	160	51%	63%	81h	A0h		
		6. Orange/Dark Blue	161	192	63%	75%	A1h	C0h		
		7. Dark Blue/Open	193	224	76%	88%	C1h	E0h		
		1. Open/Red	225	255	88%	100%	E1h	FFh		
		<b>Spin and Random Modes</b>								
		Stop	0	0	0%	0%	00h	00h		
		Slow to Fast	1	255	0%	100%	01h	FFh		
		<b>Continuous Mode</b>								
		Positioning from 0–360 degrees	0	255	0%	100%	00h	FFh		
12	Gobo 1 Function	Indexed (see note <a href="#">1 on page 27</a> )	0	15	0%	6%	00h	0Fh		0
		Forward Wheel Spin	16	31	6%	12%	10h	1Fh		
		Reverse Wheel Spin	32	47	13%	18%	20h	2Fh		
		Scan	48	63	19%	25%	30h	3Fh		
		Random	64	79	25%	31%	40h	4Fh		
		Reserved (see note <a href="#">5 on page 27</a> )	80	255	31%	100%	50h	FFh		

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## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
13	Gobo 1 Position	<b>Indexed and Scan Modes</b>								0
		1. (Open)	0	15	0%	6%	00h	0Fh		
		2. (Bar)	16	47	6%	18%	10h	2Fh		
		3. (Stripe Strips)	48	79	19%	31%	30h	4Fh		
		4. (Crescents)	80	111	31%	44%	50h	6Fh		
		5. (Geoswirl)	112	143	44%	56%	70h	8Fh		
		6. (Seashell)	144	175	56%	69%	90h	AFh		
		7. (Pinwheel Dots)	176	207	69%	81%	B0h	CFh		
		8. (Ice)	208	239	82%	94%	D0h	EFh		
		1. (Open)	240	255	94%	100%	F0h	FFh		
		<b>Spin and Random Modes</b>								
		Rotate Stop	0	3	0%	1%	00h	03h		
		Slowest to fastest	4	255	2%	100%	04h	FFh		
14	Gobo 1 Rotate Function	Indexed (see note <a href="#">1 on page 27</a> )	0	15	0%	6%	00h	0Fh	0	
		Forward Rotate	16	31	6%	12%	10h	1Fh		
		Reverse Rotate	32	47	13%	18%	20h	2Fh		
		Forward Strobe Rotate (Gobo Animate)	48	63	19%	25%	30h	3Fh		
		Reverse Strobe Rotate (Gobo Animate)	64	79	25%	31%	40h	4Fh		
		Reserved (see note <a href="#">5 on page 27</a> )	80	255	31%	100%	50h	FFh		
15	Gobo 1 Rotate Coarse	<b>Indexed</b>								127
		Position 0–360 degrees	0	255	0%	100%	00h	FFh		
		<b>Forward/Reverse/Forward Strobe/Reverse Strobe Rotate Modes</b>								
		Rotate Stop	0	3	0%	1%	00h	03h		
		Rotate Slowest to Fastest	4	255	2%	100%	04h	FFh		
16	Gobo 1 Rotate Fine	<b>Indexed Mode</b>								255
		Low Order Byte 0–360 degrees	0	255	0%	100%	00h	FFh		
17	Gobo 2 Function	Indexed (see note <a href="#">1 on page 27</a> )	0	15	0%	6%	00h	0Fh	0	
		Forward Wheel Spin	16	31	6%	12%	10h	1Fh		
		Reverse Wheel Spin	32	47	13%	18%	20h	2Fh		
		Scan	48	63	19%	25%	30h	3Fh		
		Random	64	79	25%	31%	40h	4Fh		
		Reserved (see note <a href="#">5 on page 27</a> )	80	255	31%	100%	50h	FFh		

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## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
18	Gobo 2 Position	<b>Indexed and Scan Modes</b>								
		1. (Open)	0	15	0%	6%	00h	0Fh	0	
		2. (Tunnel)	16	47	6%	18%	10h	2Fh		
		3. (Triangles)	48	79	19%	31%	30h	4Fh		
		4. (Organic)	80	111	31%	44%	50h	6Fh		
		5. (Shower)	112	143	44%	56%	70h	8Fh		
		6. (Abstract)	144	175	56%	69%	90h	AFh		
		7. (Cobble)	176	207	69%	81%	B0h	CFh		
		8. (Endgrain)	208	239	82%	94%	D0h	EFh		
		1. (Open)	240	255	94%	100%	F0h	FFh		
		<b>Spin and Random Modes</b>								
		Rotate Stop	0	3	0%	1%	00h	03h		
Slowest to Fastest	4	255	2%	100%	04h	FFh				
19	Blade 1 Angle A (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0	
20	Blade 1 Angle B (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0	
21	Blade 2 Angle A (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0	
22	Blade 2 Angle B (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0	
23	Blade 3 Angle A (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0	
24	Blade 3 Angle B (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0	
25	Blade 4 Angle A (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0	
26	Blade 4 Angle B (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0	
27 / 28	Frame Rotation (Coarse / Fine)	-60–60 degrees	0	15	0%	6%	00h	0Fh	32767	
29	Animation Function	Disengaged	0	8	0%	3%	00h	08h	0	
		Engaged, Forward Spin Speed Slow to Fast	9	70	4%	27%	09h	46h		
		Engaged, Reverse Spin Speed Slow to Fast	71	131	28%	51%	47h	83h		
		Engaged, Forward Strobe Rotate Slow to Fast	132	193	52%	76%	84h	C1h		
		Engaged, Reverse Strobe Rotate Slow to Fast	194	255	76%	100%	C2h	FFh		

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## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
30	Prism Function	Disengaged	0	15	0%	6%	00h	0Fh	0	
		Continuous	16	31	6%	12%	10h	1Fh		
		Forward Spin	32	47	13%	18%	20h	2Fh		
		Reverse Spin	48	63	19%	25%	30h	3Fh		
		Forward Strobe Rotate (Effect Animate)	64	79	25%	31%	40h	4Fh		
		Reverse Strobe Rotate (Effect Animate)	80	95	31%	37%	50h	5Fh		
		Reserved	96	255	38%	100%	60h	FFh		
31 / 32	Prism Rotate (Coarse / Fine)	<b>Continuous</b>								32767
		0–359 degrees	0	65535	0%	100%	0000h	FFFFh		
		<b>Spin and Animate</b>								0
		Stop	0	1027	0%	2%	0000h	0403h		
33	Diffusion	Open (Hard Edge)	0	0	0%	0%	00h	00h	0	
		Variable Edge (Hard to Soft)	1	127	0%	50%	01h	7Fh		
		Soft Edge	128	135	50%	53%	80h	87h		
		Periodic Strobe	136	151	53%	59%	88h	97h		
		Random Strobe	152	167	60%	65%	98h	A7h		
		Open (Hard Edge)	168	225	66%	88%	A8h	E1h		
34 / 35	Focus (Coarse / Fine)	Focus	0	65535	0%	100%	00h	FFFFh	0	
36 / 37	Zoom (Coarse / Fine)	3.8–55 degrees	0	65535	0%	100%	00h	FFFFh	0	
38	Auto Focus	Auto Focus Off	0	15	0%	6%	00h	0Fh	0	
		5 m	16	31	6%	12%	10h	1Fh		
		7.5 m	32	47	13%	18%	20h	2Fh		
		10 m	48	255	19%	100%	30h	FFh		
39	Auto Focus Fine	Focus In to Out Fine	0	255	0%	100%	00h	FFh	0	
40	Iris	Closed to Open	0	255	0%	100%	00h	FFh	255	
41	Shutter / LED Functions	Normal Shutter Functions	0	31	0%	12%	00h	1Fh	0	
		Random Random Strobe	32	63	13%	25%	20h	3Fh		
		Synchronous Random Strobe (see note <a href="#">3 on page 27</a> )	64	95	25%	37%	40h	5Fh		
		Reserved (see note <a href="#">5 on page 27</a> )	96	255	38%	100%	60h	FFh		
42	Shutter / LED	<b>Normal/Random/Sync Random Shutter Functions</b>								255
		Close	0	23	0%	9%	00h	17h		
		Strobe Rate (slow to fast)	24	229	9%	90%	18h	E5h		
		Open	230	255	90%	100%	E6h	FFh		
43 / 44	Dimmer (Coarse / Fine)	Off to Full	0	65535	0%	100%	00h	FFFFh	0	

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## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
45	LED Animation (see note <a href="#">2</a> on <a href="#">page 27</a> )	Macro off	0	3	0%	1%	00h	03h	0
		Macro 1 L to R - 1	4	7	2%	3%	04h	07h	
		Macro 2 Scan - 1	8	11	3%	4%	08h	0Bh	
		Macro 3 R to L - 1	12	15	5%	6%	0Ch	0Fh	
		Macro 4 L to R - 2	16	19	6%	7%	10h	13h	
		Macro 5 Scan - 2	20	23	8%	9%	14h	17h	
		Macro 6 R to L - 2	24	27	9%	11%	18h	1Bh	
		Macro 7 L to R - 3	28	31	11%	12%	1Ch	1Fh	
		Macro 8 Scan - 3	32	35	13%	14%	20h	23h	
		Macro 9 R to L - 3	36	39	14%	15%	24h	27h	
		Macro 10 L to R - 4	40	43	16%	17%	28h	2Bh	
		Macro 11 Scan - 4	44	47	17%	18%	2Ch	2Fh	
		Macro 12 R to L - 4	48	51	19%	20%	30h	33h	
		Macro 13 L to R - 5	52	55	20%	22%	34h	37h	
		Macro 14 Scan - 5	56	59	22%	23%	38h	3Bh	
		Macro 15 R to L - 5	60	63	24%	25%	3Ch	3Fh	
		Macro 16 L to R - 6	64	67	25%	26%	40h	43h	
		Macro 17 Scan - 6	68	71	27%	28%	44h	47h	
		Macro 18 R to L - 6	72	75	28%	29%	48h	4Bh	
		Macro 19 L to R - 7	76	79	30%	31%	4Ch	4Fh	
		Macro 20 Scan - 7	80	83	31%	33%	50h	53h	
		Macro 21 R to L - 7	84	87	33%	34%	54h	57h	
		Macro 22 L to R - 8	88	91	35%	36%	58h	5Bh	
		Macro 23 Scan - 8	92	95	36%	37%	5Ch	5Fh	
		Macro 24 R to L - 8	96	99	38%	39%	60h	63h	
		Macro 25 Alternate - 6	100	103	39%	40%	64h	67h	
		Macro 26 Invert L to R - 1	104	107	41%	42%	68h	6Bh	
Macro 27 Invert Scan - 1	108	111	42%	44%	6Ch	6Fh			



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## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
45 (continued)	LED Animation (see note <a href="#">2 on page 27</a> )	Macro 28 Invert R to L - 1	112	115	44%	45%	70h	73h	0
		Macro 29 Invert L to R - 2	116	119	45%	47%	74h	77h	
		Macro 30 Invert Scan - 2	120	123	47%	48%	78h	7Bh	
		Macro 31 Invert R to L - 2	124	127	49%	50%	7Ch	7Fh	
		Macro 32 Invert L to R - 3	128	131	50%	51%	80h	83h	
		Macro 33 Invert Scan - 3	132	135	52%	53%	84h	87h	
		Macro 34 Invert R to L - 3	136	139	53%	55%	88h	8Bh	
		Macro 35 Invert L to R - 4	140	143	55%	56%	8Ch	8Fh	
		Macro 36 Invert Scan - 4	144	147	56%	58%	90h	93h	
		Macro 37 Invert R to L - 4	148	151	58%	59%	94h	97h	
		Macro 38 Invert L to R - 5	152	155	60%	61%	98h	9Bh	
		Macro 39 Invert Scan - 5	156	159	61%	62%	9Ch	9Fh	
		Macro 40 Invert R to L - 5	160	163	63%	64%	A0h	A3h	
		Macro 41 Invert L to R - 6	164	167	64%	65%	A4h	A7h	
		Macro 42 Invert Scan - 6	168	171	66%	67%	A8h	ABh	
		Macro 43 Invert R to L - 6	172	175	67%	69%	ACH	AFh	
		Macro 44 Invert L to R - 7	176	179	69%	70%	B0h	B3h	
		Macro 45 Invert Scan - 7	180	183	71%	72%	B4h	B7h	
		Macro 46 Invert R to L - 7	184	187	72%	73%	B8h	BBh	
		Macro 47 Invert L to R - 8	188	191	74%	75%	BCh	BFh	
		Macro 48 Invert Scan - 8	192	195	75%	76%	C0h	C3h	
		Macro 49 Invert R to L - 8	196	199	77%	78%	C4h	C7h	
		Macro 50 Out/in - 2	200	203	78%	80%	C8h	CBh	
		Macro 51 Out/in - 3	204	207	80%	81%	CCh	CFh	
		Macro 52 Out/in - 4	208	211	82%	83%	D0h	D3h	
		Macro 53 Alternate - 1	212	215	83%	84%	D4h	D7h	
		Macro 54 Alternate - 2	216	219	85%	86%	D8h	DBh	
		Macro 55 Alternate - 3	220	223	86%	87%	DCh	DFh	
Macro 56 Alternate - 4	224	227	88%	89%	E0h	E3h			
Macro 57 Alternate - 5	228	231	89%	91%	E4h	E7h			
...									
		Reserved (see note <a href="#">5 on page 27</a> )	232	255	91%	100%	E8h	FFh	
46	LED Animation Speed	Stop to Fast	0	255	0%	100%	00h	FFh	128
47	LED Animation Xfade	Stop to Fast	0	255	0%	100%	00h	FFh	128
48	Mspeed	Disable	0	3	0%	1%	00h	03h	0
		Longest to Shortest	4	255	2%	100%	04h	FFh	

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## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
49	Control (see note 4 on page 27)	<b>The Control channel should not be crossfaded. No shutter channel requirement.</b>								
		Safe (Normal Operation )	0	9	0%	4%	00h	09h		
		Reserved (see note 5 on page 27)	10	19	4%	7%	0Ah	13h		
		Display Off (send 20 packets)	20	28	8%	11%	14h	1Ch		
		Display On (send 20 packets)	29	35	11%	14%	1Dh	23h		
		Reserved (see note 5 on page 27)	36	48	14%	19%	24h	30h		
		Home All (send 20 packets)	49	68	19%	27%	31h	44h		
		Shutdown (send 80 packets)	69	75	27%	29%	45h	4Bh		
		<b>Fan Control Modes</b>								
		Studio Fan Control Mode (send 20 packets)	76	82	30%	32%	4Ch	52h		
		Continuous Fan Control Mode (send 20 packets)	83	89	33%	35%	53h	59h		
		Standard Fan Control Mode (send 20 packets)	90	96	35%	38%	5Ah	60h		
		Disable Pan/Tilt Motors	97	103	38%	40%	61h	67h		
		Outrig Mode On	104	109	41%	43%	68h	6Dh		
		Outrig Mode Off	110	115	43%	45%	6Eh	73h		
		Studio Continuous Fan Control Mode	116	121	45%	47%	74h	79h		
		Dimming Mode - 100 Hz (send 20 packets)	122	124	48%	49%	7Ah	7Ch		
		Dimming Mode - 2.4 kHz (send 20 packets)	125	127	49%	50%	7Dh	7Fh		
		Dimming Mode - 16 kHz (send 20 packets)	128	130	50%	51%	80h	82h		
		Reserved (see note 5 on page 27)	131	160	51%	63%	83h	A0h		
		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		
		Reserved (see note 5 on page 27)	238	255	93%	100%	Eeh	FFh		

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

### SolaFrame 3000 Enhanced Protocol

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
1 / 2	Pan (Coarse / Fine)	See note <a href="#">7 on page 28</a>	0	65535	0%	100%	0000h	FFFFh	32512
3 / 4	Tilt (Coarse / Fine)	See note <a href="#">7 on page 28</a>	0	65535	0%	100%	0000h	FFFFh	32512
5	Mix Color Function	Pure Mix	0	31	0%	12%	00h	1Fh	0
		Cycle	32	47	13%	18%	20h	2Fh	
		Random	48	63	19%	25%	30h	3Fh	
		Reserved (see note <a href="#">5 on page 27</a> )	64	255	25%	100%	40h	FFh	
6	Cyan	<b>Pure Mix</b>							255
		Full Saturation to Open	0	255	0%	100%	00h	FFh	0
		<b>Cycle and Random</b>							
		Slow to Fast	0	255	0%	100%	00h	FFh	
7	Magenta	Full Saturation to Open	0	255	0%	100%	00h	FFh	255
8	Yellow	Full Saturation to Open	0	255	0%	100%	00h	FFh	255
9	CTO	Full Saturation to Open	0	255	0%	100%	00h	FFh	255
10	Static Color Function	Indexed	0	15	0%	6%	00h	0Fh	48
		Forward Spin	16	31	6%	12%	10h	1Fh	
		Reverse Spin	32	47	13%	18%	20h	2Fh	
		Continuous (see note <a href="#">1 on page 27</a> )	48	63	19%	25%	30h	3Fh	
		Fast Scan	64	79	25%	31%	40h	4Fh	
		Random	80	95	31%	37%	50h	5Fh	
		Reserved (see note <a href="#">5 on page 27</a> )	96	255	38%	100%	60h	FFh	

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
11	Static Color Position	<b>Indexed Modes</b>								
		1. Open (White)	0	16	0%	6%	00h	10h	0	
		2. Open/Red	17	32	7%	13%	11h	20h		
		3. Red	33	48	13%	19%	21h	30h		
		4. Red/Blue	49	64	19%	25%	31h	40h		
		5. Blue	65	80	25%	31%	41h	50h		
		6. Blue/Green	81	96	32%	38%	51h	60h		
		7. Green	97	112	38%	44%	61h	70h		
		8. Green/TM-30	113	128	44%	50%	71h	80h		
		9. TM-30	129	144	51%	56%	81h	90h		
		10. TM-30/Orange	145	160	57%	63%	91h	A0h		
		11. Orange	161	176	63%	69%	A1h	B0h		
		12. Orange/Dark Blue)	177	192	69%	75%	B1h	C0h		
		13. Dark Blue	193	208	76%	82%	C1h	D0h		
		14. Dark Blue/Open	209	224	82%	88%	D1h	E0h		
		1. Open (White)	225	255	88%	100%	E1h	FFh		
		<b>Scan Modes</b>								
		1. Open/Red	0	32	0%	13%	00h	20h		
		2. Red/Blue	33	64	13%	25%	21h	40h		
		3. Blue/Green	65	96	25%	38%	41h	60h		
		4. Green/TM-30	97	128	38%	50%	61h	80h		
		5. TM-30/Orange	129	160	51%	63%	81h	A0h		
		6. Orange/Dark Blue	161	192	63%	75%	A1h	C0h		
		7. Dark Blue/Open	193	224	76%	88%	C1h	E0h		
		1. Open/Red	225	255	88%	100%	E1h	FFh		
		<b>Spin and Random Modes</b>								
		Stop	0	0	0%	0%	00h	00h		
		Slow to Fast	1	255	0%	100%	01h	FFh		
		<b>Continuous Mode</b>								
		Positioning from 0–360 degrees	0	255	0%	100%	00h	FFh		
12	Gobo 1 Function	Indexed (see note <a href="#">1 on page 27</a> )	0	15	0%	6%	00h	0Fh		0
		Forward Wheel Spin	16	31	6%	12%	10h	1Fh		
		Reverse Wheel Spin	32	47	13%	18%	20h	2Fh		
		Scan	48	63	19%	25%	30h	3Fh		
		Random	64	79	25%	31%	40h	4Fh		
		Reserved (see note <a href="#">5 on page 27</a> )	80	255	31%	100%	50h	FFh		

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
13	Gobo 1 Position	<b>Indexed and Scan Modes</b>								
		1. (Open)	0	15	0%	6%	00h	0Fh	0	
		2. (Bar)	16	47	6%	18%	10h	2Fh		
		3. (Stripe Strips)	48	79	19%	31%	30h	4Fh		
		4. (Crescents)	80	111	31%	44%	50h	6Fh		
		5. (Geoswirl)	112	143	44%	56%	70h	8Fh		
		6. (Seashell)	144	175	56%	69%	90h	AFh		
		7. (Pinwheel Dots)	176	207	69%	81%	B0h	CFh		
		8. (Ice)	208	239	82%	94%	D0h	EFh		
		1. (Open)	240	255	94%	100%	F0h	FFh		
		<b>Spin and Random Modes</b>								
		Rotate Stop	0	3	0%	1%	00h	03h		
		Slowest to Fastest	4	255	2%	100%	04h	FFh		
14	Gobo 1 Rotate Function	Indexed (see note <a href="#">1 on page 27</a> )	0	15	0%	6%	00h	0Fh		0
		Forward Rotate	16	31	6%	12%	10h	1Fh		
		Reverse Rotate	32	47	13%	18%	20h	2Fh		
		Forward Strobe Rotate (Gobo Animate)	48	63	19%	25%	30h	3Fh		
		Reverse Strobe Rotate (Gobo Animate)	64	79	25%	31%	40h	4Fh		
		Reserved (see note <a href="#">5 on page 27</a> )	80	255	31%	100%	50h	FFh		
15	Gobo 1 Rotate Coarse	<b>Indexed</b>								
		Position 0–360 degrees	0	255	0%	100%	00h	FFh	127	
		<b>Forward/Reverse/Forward Strobe/Reverse Strobe Rotate Modes</b>								
		Rotate Stop	0	3	0%	1%	00h	03h		
		Rotate Slowest to Fastest	4	255	2%	100%	04h	FFh		
16	Gobo 1 Rotate Fine	<b>Indexed Mode</b>								
		Low Order Byte 0–360 degrees	0	255	0%	100%	00h	FFh	255	
17	Gobo 2 Function	Indexed (see note <a href="#">1 on page 27</a> )	0	15	0%	6%	00h	0Fh	0	
		Forward Wheel Spin	16	31	6%	12%	10h	1Fh		
		Reverse Wheel Spin	32	47	13%	18%	20h	2Fh		
		Scan	48	63	19%	25%	30h	3Fh		
		Random	64	79	25%	31%	40h	4Fh		
		Reserved (see note <a href="#">5 on page 27</a> )	80	255	31%	100%	50h	FFh		

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
18	Gobo 2 Position	<b>Indexed and Scan Modes</b>								0
		1. (Open)	0	15	0%	6%	00h	0Fh		
		2. (Tunnel)	16	47	6%	18%	10h	2Fh		
		3. (Triangles)	48	79	19%	31%	30h	4Fh		
		4. (Organic)	80	111	31%	44%	50h	6Fh		
		5. (Shower)	112	143	44%	56%	70h	8Fh		
		6. (Abstract)	144	175	56%	69%	90h	AFh		
		7. (Cobble)	176	207	69%	81%	B0h	CFh		
		8. (Endgrain)	208	239	82%	94%	D0h	EFh		
		1. (Open)	240	255	94%	100%	F0h	FFh		
		<b>Spin and Random Modes</b>								
		Rotate Stop	0	3	0%	1%	00h	03h		
Slowest to Fastest	4	255	2%	100%	04h	FFh				
19	Blade 1 Angle A (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0	
20	Blade 1 Angle B (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0	
21	Blade 2 Angle A (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0	
22	Blade 2 Angle B (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0	
23	Blade 3 Angle A (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0	
24	Blade 3 Angle B (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0	
25	Blade 4 Angle A (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0	
26	Blade 4 Angle B (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0	
27 / 28	Frame Rotation (Coarse / Fine)	-60–60 degrees	0	15	0%	6%	00h	0Fh	32767	
29	Animation Function	Removed to Inserted	0	255	0%	100%	00h	FFh	0	
30	Animation Rotate	Forward Spin Speed Stopped to Fast	0	63	0%	25%	00h	3Fh	0	
		Reverse Spin Speed Stopped to Fast	64	127	25%	50%	40h	7Fh		
		Forward Strobe Rotate Stopped to Fast	128	191	50%	75%	80h	BFh		
		Reverse Strobe Rotate Stopped to Fast	192	255	75%	100%	C0h	FFh		

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
31	Prism Function	Disengaged	0	15	0%	6%	00h	0Fh	0
		Continuous	16	31	6%	12%	10h	1Fh	
		Forward Spin	32	47	13%	18%	20h	2Fh	
		Reverse Spin	48	63	19%	25%	30h	3Fh	
		Forward Strobe Rotate (Effect Animate)	64	79	25%	31%	40h	4Fh	
		Reverse Strobe Rotate (Effect Animate)	80	95	31%	37%	50h	5Fh	
		Reserved	96	255	38%	100%	60h	FFh	
32 / 33	Prism Rotate (Coarse / Fine)	<b>Continuous Mode</b>							32767
		0–359 degrees	0	65535	0%	100%	0000h	FFFFh	
		<b>Spin and Animate</b>							0
		Stop	0	1027	0%	2%	0000h	0403h	
34	Diffusion	Open (Hard Edge)	0	0	0%	0%	00h	00h	0
		Variable Edge (Hard to Soft)	1	127	0%	50%	01h	7Fh	
		Soft Edge	128	135	50%	53%	80h	87h	
		Periodic Strobe	136	151	53%	59%	88h	97h	
		Random Strobe	152	167	60%	65%	98h	A7h	
		Open (Hard Edge)	168	225	66%	88%	A8h	E1h	
35 / 36	Focus (Coarse / Fine)	Focus	0	65535	0%	100%	00h	FFFFh	0
37 / 38	Zoom (Coarse / Fine)	3.8–55 degrees	0	65535	0%	100%	00h	FFFFh	0
39	Auto Focus	Auto Focus Off	0	15	0%	6%	00h	0Fh	0
		5 m	16	31	6%	12%	10h	1Fh	
		7.5 m	32	47	13%	18%	20h	2Fh	
		10 m	48	255	19%	100%	30h	FFh	
40	Auto Focus Fine	Focus In to Out Fine	0	255	0%	100%	00h	FFh	0
41	Iris	Closed to Open	0	255	0%	100%	00h	FFh	255
42	Shutter / LED Functions	Normal Shutter Functions	0	31	0%	12%	00h	1Fh	0
		Random Random Strobe	32	63	13%	25%	20h	3Fh	
		Synchronous Random Strobe (see note <a href="#">3 on page 27</a> )	64	95	25%	37%	40h	5Fh	
		Reserved (see note <a href="#">5 on page 27</a> )	96	255	38%	100%	60h	FFh	
43	Shutter / LED	<b>Normal/Random/Sync Random Shutter Functions</b>							255
		Close	0	23	0%	9%	00h	17h	
		Strobe Rate (Slow to Fast)	24	229	9%	90%	18h	E5h	
		Open	230	255	90%	100%	E6h	FFh	
44 / 45	Dimmer (Coarse / Fine)	Off to Full	0	65535	0%	100%	00h	FFFFh	0

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
46	LED Animation (see note <a href="#">2</a> on <a href="#">page 27</a> )	Macro Off	0	3	0%	1%	00h	03h	0
		Macro 1 L to R - 1	4	7	2%	3%	04h	07h	
		Macro 2 Scan - 1	8	11	3%	4%	08h	0Bh	
		Macro 3 R to L - 1	12	15	5%	6%	0Ch	0Fh	
		Macro 4 L to R - 2	16	19	6%	7%	10h	13h	
		Macro 5 Scan - 2	20	23	8%	9%	14h	17h	
		Macro 6 R to L - 2	24	27	9%	11%	18h	1Bh	
		Macro 7 L to R - 3	28	31	11%	12%	1Ch	1Fh	
		Macro 8 Scan - 3	32	35	13%	14%	20h	23h	
		Macro 9 R to L - 3	36	39	14%	15%	24h	27h	
		Macro 10 L to R - 4	40	43	16%	17%	28h	2Bh	
		Macro 11 Scan - 4	44	47	17%	18%	2Ch	2Fh	
		Macro 12 R to L - 4	48	51	19%	20%	30h	33h	
		Macro 13 L to R - 5	52	55	20%	22%	34h	37h	
		Macro 14 Scan - 5	56	59	22%	23%	38h	3Bh	
		Macro 15 R to L - 5	60	63	24%	25%	3Ch	3Fh	
		Macro 16 L to R - 6	64	67	25%	26%	40h	43h	
		Macro 17 Scan - 6	68	71	27%	28%	44h	47h	
		Macro 18 R to L - 6	72	75	28%	29%	48h	4Bh	
		Macro 19 L to R - 7	76	79	30%	31%	4Ch	4Fh	
		Macro 20 Scan - 7	80	83	31%	33%	50h	53h	
		Macro 21 R to L - 7	84	87	33%	34%	54h	57h	
		Macro 22 L to R - 8	88	91	35%	36%	58h	5Bh	
		Macro 23 Scan - 8	92	95	36%	37%	5Ch	5Fh	
		Macro 24 R to L - 8	96	99	38%	39%	60h	63h	
		Macro 25 Alternate - 6	100	103	39%	40%	64h	67h	
		Macro 26 Invert L to R - 1	104	107	41%	42%	68h	6Bh	
		Macro 27 Invert Scan - 1	108	111	42%	44%	6Ch	6Fh	
		Macro 28 Invert R to L - 1	112	115	44%	45%	70h	73h	
Macro 29 Invert L to R - 2	116	119	45%	47%	74h	77h			



# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
46 (continued)	LED Animation (see note <a href="#">2 on page 27</a> )	Macro 30 Invert Scan - 2	120	123	47%	48%	78h	7Bh	0
		Macro 31 Invert R to L - 2	124	127	49%	50%	7Ch	7Fh	
		Macro 32 Invert L to R - 3	128	131	50%	51%	80h	83h	
		Macro 33 Invert Scan - 3	132	135	52%	53%	84h	87h	
		Macro 34 Invert R to L - 3	136	139	53%	55%	88h	8Bh	
		Macro 35 Invert L to R - 4	140	143	55%	56%	8Ch	8Fh	
		Macro 36 Invert Scan - 4	144	147	56%	58%	90h	93h	
		Macro 37 Invert R to L - 4	148	151	58%	59%	94h	97h	
		Macro 38 Invert L to R - 5	152	155	60%	61%	98h	9Bh	
		Macro 39 Invert Scan - 5	156	159	61%	62%	9Ch	9Fh	
		Macro 40 Invert R to L - 5	160	163	63%	64%	A0h	A3h	
		Macro 41 Invert L to R - 6	164	167	64%	65%	A4h	A7h	
		Macro 42 Invert Scan - 6	168	171	66%	67%	A8h	ABh	
		Macro 43 Invert R to L - 6	172	175	67%	69%	ACH	AFh	
		Macro 44 Invert L to R - 7	176	179	69%	70%	B0h	B3h	
		Macro 45 Invert Scan - 7	180	183	71%	72%	B4h	B7h	
		Macro 46 Invert R to L - 7	184	187	72%	73%	B8h	BBh	
		Macro 47 Invert L to R - 8	188	191	74%	75%	BCh	BFh	
		Macro 48 Invert Scan - 8	192	195	75%	76%	C0h	C3h	
		Macro 49 Invert R to L - 8	196	199	77%	78%	C4h	C7h	
		Macro 50 Out/In - 2	200	203	78%	80%	C8h	CBh	
		Macro 51 Out/In - 3	204	207	80%	81%	CCh	CFh	
		Macro 52 Out/In - 4	208	211	82%	83%	D0h	D3h	
		Macro 53 Alternate - 1	212	215	83%	84%	D4h	D7h	
		Macro 54 Alternate - 2	216	219	85%	86%	D8h	DBh	
		Macro 55 Alternate - 3	220	223	86%	87%	DCh	DFh	
		Macro 56 Alternate - 4	224	227	88%	89%	E0h	E3h	
Macro 57 Alternate - 5	228	231	89%	91%	E4h	E7h			
...									
		Reserved (see note <a href="#">5 on page 27</a> )	232	255	91%	100%	E8h	FFh	
47	LED Animation Speed	Stop to Fast	0	255	0%	100%	00h	FFh	128
48	LED Animation Xfade	Stop to Fast	0	255	0%	100%	00h	FFh	128
49	Mspeed	Disable	0	3	0%	1%	00h	03h	0
		Longest to Shortest	4	255	2%	100%	04h	FFh	

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
50	Control (see note 4 on page 27)	<b>The Control channel should not be crossfaded. No shutter channel requirement.</b>								
		Safe (Normal Operation )	0	9	0%	4%	00h	09h	0	
		Reserved (see note 5 on page 27)	10	19	4%	7%	0Ah	13h		
		Display Off (send 20 packets)	20	28	8%	11%	14h	1Ch		
		Display On (send 20 packets)	29	35	11%	14%	1Dh	23h		
		Reserved (see note 5 on page 27)	36	48	14%	19%	24h	30h		
		Home All (send 20 packets)	49	68	19%	27%	31h	44h		
		Shutdown (send 80 packets)	69	75	27%	29%	45h	4Bh		
		<b>Fan Control Modes</b>								
		Studio Fan Control Mode (send 20 packets)	76	82	30%	32%	4Ch	52h		
		Reserved (see note 5 on page 27)	83	89	33%	35%	53h	59h		
		Standard Fan Control Mode (send 20 packets)	90	96	35%	38%	5Ah	60h		
		Disable Pan/Tilt Motors	97	103	38%	40%	61h	67h		
		Outrig Mode On	104	109	41%	43%	68h	6Dh		
		Outrig Mode Off	110	115	43%	45%	6Eh	73h		
		Dimming Mode - 100 Hz (send 20 packets)	116	121	45%	47%	74h	79h		
		Dimming Mode - 2.4 kHz (send 20 packets)	122	127	48%	50%	7Ah	7Fh		
		Dimming Mode - 16 kHz (send 20 packets)	128	133	50%	52%	80h	85h		
		Reserved (see note 5 on page 27)	134	160	53%	63%	86h	A0h		
		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		
		Reserved (see note 5 on page 27)	238	255	93%	100%	Eh	FFh		
		51	Fan Speed	Idle	0	9	0%	4%		00h
Slow to Fast	10			215	4%	84%	0Ah	D7h		
Reserved	216			255	85%	100%	D8h	FFh		

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

### SolaFrame 3000 Enhanced Dual Diffusion Protocol

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
1 / 2	Pan (Coarse / Fine)	See note <a href="#">7 on page 28</a>	0	65535	0%	100%	0000h	FFFFh	32512	
3 / 4	Tilt (Coarse / Fine)	See note <a href="#">7 on page 28</a>	0	65535	0%	100%	0000h	FFFFh	32512	
5	Mix Color Function	Pure Mix	0	31	0%	12%	00h	1Fh	0	
		Cycle	32	47	13%	18%	20h	2Fh		
		Random	48	63	19%	25%	30h	3Fh		
		Reserved (see note <a href="#">5 on page 27</a> )	64	255	25%	100%	40h	FFh		
6	Cyan	<b>Pure Mix</b>								255
		Full Saturation to Open	0	255	0%	100%	00h	FFh		
		<b>Cycle and Random</b>								0
Slow to Fast	0	255	0%	100%	00h	FFh				
7	Magenta	Full Saturation to Open	0	255	0%	100%	00h	FFh	255	
8	Yellow	Full Saturation to Open	0	255	0%	100%	00h	FFh	255	
9	CTO	Full Saturation to Open	0	255	0%	100%	00h	FFh	255	
10	Static Color Function	Indexed	0	15	0%	6%	00h	0Fh	48	
		Forward Spin	16	31	6%	12%	10h	1Fh		
		Reverse Spin	32	47	13%	18%	20h	2Fh		
		Continuous (see note <a href="#">1 on page 27</a> )	48	63	19%	25%	30h	3Fh		
		Fast Scan	64	79	25%	31%	40h	4Fh		
		Random	80	95	31%	37%	50h	5Fh		
		Reserved (see note <a href="#">5 on page 27</a> )	96	255	38%	100%	60h	FFh		

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
11	Static Color Position	<b>Indexed Modes</b>								
		1. Open (White)	0	16	0%	6%	00h	10h	0	
		2. Open/Red	17	32	7%	13%	11h	20h		
		3. Red	33	48	13%	19%	21h	30h		
		4. Red/Blue	49	64	19%	25%	31h	40h		
		5. Blue	65	80	25%	31%	41h	50h		
		6. Blue/Green	81	96	32%	38%	51h	60h		
		7. Green	97	112	38%	44%	61h	70h		
		8. Green/TM-30	113	128	44%	50%	71h	80h		
		9. TM-30	129	144	51%	56%	81h	90h		
		10. TM-30/Orange	145	160	57%	63%	91h	A0h		
		11. Orange	161	176	63%	69%	A1h	B0h		
		12. Orange/Dark Blue)	177	192	69%	75%	B1h	C0h		
		13. Dark Blue	193	208	76%	82%	C1h	D0h		
		14. Dark Blue/Open	209	224	82%	88%	D1h	E0h		
		1. Open (White)	225	255	88%	100%	E1h	FFh		
		<b>Scan Modes</b>								
		1. Open/Red	0	32	0%	13%	00h	20h		
		2. Red/Blue	33	64	13%	25%	21h	40h		
		3. Blue/Green	65	96	25%	38%	41h	60h		
		4. Green/TM-30	97	128	38%	50%	61h	80h		
		5. TM-30/Orange	129	160	51%	63%	81h	A0h		
		6. Orange/Dark Blue	161	192	63%	75%	A1h	C0h		
		7. Dark Blue/Open	193	224	76%	88%	C1h	E0h		
		1. Open/Red	225	255	88%	100%	E1h	FFh		
		<b>Spin and Random Modes</b>								
		Stop	0	0	0%	0%	00h	00h		
Slow to Fast	1	255	0%	100%	01h	FFh				
<b>Continuous Mode</b>										
Positioning from 0–360 degrees	0	255	0%	100%	00h	FFh				
12	Gobo 1 Function	Indexed (see note <a href="#">1 on page 27</a> )	0	15	0%	6%	00h	0Fh	0	
		Forward Wheel Spin	16	31	6%	12%	10h	1Fh		
		Reverse Wheel Spin	32	47	13%	18%	20h	2Fh		
		Scan	48	63	19%	25%	30h	3Fh		
		Random	64	79	25%	31%	40h	4Fh		
		Reserved (see note <a href="#">5 on page 27</a> )	80	255	31%	100%	50h	FFh		

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
13	Gobo 1 Position	<b>Indexed &amp; Scan Modes</b>								0
		1. (Open)	0	15	0%	6%	00h	0Fh		
		2. (Bar)	16	47	6%	18%	10h	2Fh		
		3. (Stripe Strips)	48	79	19%	31%	30h	4Fh		
		4. (Crescents)	80	111	31%	44%	50h	6Fh		
		5. (Geoswirl)	112	143	44%	56%	70h	8Fh		
		6. (Seashell)	144	175	56%	69%	90h	AFh		
		7. (Pinwheel Dots)	176	207	69%	81%	B0h	CFh		
		8. (Ice)	208	239	82%	94%	D0h	EFh		
		1. (Open)	240	255	94%	100%	F0h	FFh		
		<b>Spin and Random Modes</b>								
		Rotate Stop	0	3	0%	1%	00h	03h		
		Slowest to Fastest	4	255	2%	100%	04h	FFh		
14	Gobo 1 Rotate Function	Indexed (see note <a href="#">1 on page 27</a> )	0	15	0%	6%	00h	0Fh	0	
		Forward Rotate	16	31	6%	12%	10h	1Fh		
		Reverse Rotate	32	47	13%	18%	20h	2Fh		
		Forward Strobe Rotate (Gobo Animate)	48	63	19%	25%	30h	3Fh		
		Reverse Strobe Rotate (Gobo Animate)	64	79	25%	31%	40h	4Fh		
		Reserved (see note <a href="#">5 on page 27</a> )	80	255	31%	100%	50h	FFh		
15	Gobo 1 Rotate Coarse	<b>Indexed</b>								127
		Position 0–360 degrees	0	255	0%	100%	00h	FFh		
		<b>Forward/Reverse/Forward Strobe/Reverse Strobe Rotate Modes</b>								
		Rotate Stop	0	3	0%	1%	00h	03h		
		Rotate Slowest to Fastest	4	255	2%	100%	04h	FFh		
16	Gobo 1 Rotate Fine	<b>Indexed Mode</b>								255
		Low Order Byte 0–360 degrees	0	255	0%	100%	00h	FFh		
17	Gobo 2 Function	Indexed (see note <a href="#">1 on page 27</a> )	0	15	0%	6%	00h	0Fh	0	
		Forward Wheel Spin	16	31	6%	12%	10h	1Fh		
		Reverse Wheel Spin	32	47	13%	18%	20h	2Fh		
		Scan	48	63	19%	25%	30h	3Fh		
		Random	64	79	25%	31%	40h	4Fh		
		Reserved (see note <a href="#">5 on page 27</a> )	80	255	31%	100%	50h	FFh		

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
18	Gobo 2 Position	<b>Indexed and Scan Modes</b>							
		1. (Open)	0	15	0%	6%	00h	0Fh	0
		2. (Tunnel)	16	47	6%	18%	10h	2Fh	
		3. (Triangles)	48	79	19%	31%	30h	4Fh	
		4. (Organic)	80	111	31%	44%	50h	6Fh	
		5. (Shower)	112	143	44%	56%	70h	8Fh	
		6. (Abstract)	144	175	56%	69%	90h	AFh	
		7. (Cobble)	176	207	69%	81%	B0h	CFh	
		8. (Endgrain)	208	239	82%	94%	D0h	EFh	
		1. (Open)	240	255	94%	100%	F0h	FFh	
		<b>Spin and Random Modes</b>							
Rotate Stop	0	3	0%	1%	00h	03h			
Slowest to Fastest	4	255	2%	100%	04h	FFh			
19	Blade 1 Angle A (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0
20	Blade 1 Angle B (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0
21	Blade 2 Angle A (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0
22	Blade 2 Angle B (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0
23	Blade 3 Angle A (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0
24	Blade 3 Angle B (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0
25	Blade 4 Angle A (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0
26	Blade 4 Angle B (see note <a href="#">6 on page 27</a> )	Removed to Inserted	0	255	0%	100%	00h	FFh	0
27 / 28	Frame Rotation (Coarse / Fine)	-60–60 degrees	0	15	0%	6%	00h	0Fh	32767
29	Animation Function	Removed to Inserted	0	255	0%	100%	00h	FFh	0
30	Animation Rotate	Forward Spin Speed Stopped to Fast	0	63	0%	25%	00h	3Fh	0
		Reverse Spin Speed Stopped to Fast	64	127	25%	50%	40h	7Fh	
		Forward Strobe Rotate Stopped to Fast	128	191	50%	75%	80h	BFh	
		Reverse Strobe Rotate Stopped to Fast	192	255	75%	100%	C0h	FFh	
31	Reserved	Reserved (see note <a href="#">5 on page 27</a> )	0	255	0%	100%	00h	FFh	0

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
32	Diffusion 2	Open (Hard Edge)	0	0	0%	0%	00h	00h	0	
		Variable Edge (Hard to Soft)	1	127	0%	50%	01h	7Fh		
		Soft Edge	128	135	50%	53%	80h	87h		
		Periodic Strobe	136	151	53%	59%	88h	97h		
		Random Strobe	152	167	60%	65%	98h	A7h		
		Open (Hard Edge)	168	225	66%	88%	A8h	E1h		
33	Reserved	Reserved (see note <a href="#">5 on page 27</a> )	0	255	0%	100%	00h	FFh	0	
34	Diffusion 1	Open (Hard Edge)	0	0	0%	0%	00h	00h	0	
		Variable Edge (Hard to Soft)	1	127	0%	50%	01h	7Fh		
		Soft Edge	128	135	50%	53%	80h	87h		
		Periodic Strobe	136	151	53%	59%	88h	97h		
		Random Strobe	152	167	60%	65%	98h	A7h		
		Open (Hard Edge)	168	225	66%	88%	A8h	E1h		
35 / 36	Focus (Coarse / Fine)	Focus	0	65535	0%	100%	00h	FFFFh	0	
37 / 38	Zoom (Coarse / Fine)	3.8–55 degrees	0	65535	0%	100%	00h	FFFFh	0	
39	Auto Focus	Auto Focus Off	0	15	0%	6%	00h	0Fh	0	
		5 m	16	31	6%	12%	10h	1Fh		
		7.5 m	32	47	13%	18%	20h	2Fh		
		10 m	48	255	19%	100%	30h	FFh		
40	Auto Focus Fine	Focus In to Out Fine	0	255	0%	100%	00h	FFh	0	
41	Iris	Closed to Open	0	255	0%	100%	00h	FFh	255	
42	Shutter / LED Functions	Normal Shutter Functions	0	31	0%	12%	00h	1Fh	0	
		Random Random Strobe	32	63	13%	25%	20h	3Fh		
		Synchronous Random Strobe (see note <a href="#">3 on page 27</a> )	64	95	25%	37%	40h	5Fh		
		Reserved (see note <a href="#">5 on page 27</a> )	96	255	38%	100%	60h	FFh		
43	Shutter / LED	<b>Normal/Random/Sync Random Shutter Functions</b>								255
		Close	0	23	0%	9%	00h	17h		
		Strobe Rate (Slow to Fast)	24	229	9%	90%	18h	E5h		
		Open	230	255	90%	100%	E6h	FFh		
44 / 45	Dimmer (Coarse / Fine)	Off to Full	0	65535	0%	100%	00h	FFFFh	0	

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
46	LED Animation (see note <a href="#">2</a> on <a href="#">page 27</a> )	Macro Off	0	3	0%	1%	00h	03h	0
		Macro 1 L to R - 1	4	7	2%	3%	04h	07h	
		Macro 2 Scan - 1	8	11	3%	4%	08h	0Bh	
		Macro 3 R to L - 1	12	15	5%	6%	0Ch	0Fh	
		Macro 4 L to R - 2	16	19	6%	7%	10h	13h	
		Macro 5 Scan - 2	20	23	8%	9%	14h	17h	
		Macro 6 R to L - 2	24	27	9%	11%	18h	1Bh	
		Macro 7 L to R - 3	28	31	11%	12%	1Ch	1Fh	
		Macro 8 Scan - 3	32	35	13%	14%	20h	23h	
		Macro 9 R to L - 3	36	39	14%	15%	24h	27h	
		Macro 10 L to R - 4	40	43	16%	17%	28h	2Bh	
		Macro 11 Scan - 4	44	47	17%	18%	2Ch	2Fh	
		Macro 12 R to L - 4	48	51	19%	20%	30h	33h	
		Macro 13 L to R - 5	52	55	20%	22%	34h	37h	
		Macro 14 Scan - 5	56	59	22%	23%	38h	3Bh	
		Macro 15 R to L - 5	60	63	24%	25%	3Ch	3Fh	
		Macro 16 L to R - 6	64	67	25%	26%	40h	43h	
		Macro 17 Scan - 6	68	71	27%	28%	44h	47h	
		Macro 18 R to L - 6	72	75	28%	29%	48h	4Bh	
		Macro 19 L to R - 7	76	79	30%	31%	4Ch	4Fh	
		Macro 20 Scan - 7	80	83	31%	33%	50h	53h	
		Macro 21 R to L - 7	84	87	33%	34%	54h	57h	
		Macro 22 L to R - 8	88	91	35%	36%	58h	5Bh	
		Macro 23 Scan - 8	92	95	36%	37%	5Ch	5Fh	
		Macro 24 R to L - 8	96	99	38%	39%	60h	63h	
		Macro 25 Alternate - 6	100	103	39%	40%	64h	67h	
		Macro 26 Invert L to R - 1	104	107	41%	42%	68h	6Bh	
		Macro 27 Invert Scan - 1	108	111	42%	44%	6Ch	6Fh	
		Macro 28 Invert R to L - 1	112	115	44%	45%	70h	73h	
		Macro 29 Invert L to R - 2	116	119	45%	47%	74h	77h	
		Macro 30 Invert Scan - 2	120	123	47%	48%	78h	7Bh	
		Macro 31 Invert R to L - 2	124	127	49%	50%	7Ch	7Fh	
		Macro 32 Invert L to R - 3	128	131	50%	51%	80h	83h	
		Macro 33 Invert Scan - 3	132	135	52%	53%	84h	87h	
		Macro 34 Invert R to L - 3	136	139	53%	55%	88h	8Bh	
		Macro 35 Invert L to R - 4	140	143	55%	56%	8Ch	8Fh	
		Macro 36 Invert Scan - 4	144	147	56%	58%	90h	93h	
		Macro 37 Invert R to L - 4	148	151	58%	59%	94h	97h	
Macro 38 Invert L to R - 5	152	155	60%	61%	98h	9Bh			



# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
46 (continued)	LED Animation (see note <a href="#">2 on page 27</a> )	Macro 39 Invert Scan - 5	156	159	61%	62%	9Ch	9Fh	0
		Macro 40 Invert R to L - 5	160	163	63%	64%	A0h	A3h	
		Macro 41 Invert L to R - 6	164	167	64%	65%	A4h	A7h	
		Macro 42 Invert Scan - 6	168	171	66%	67%	A8h	ABh	
		Macro 43 Invert R to L - 6	172	175	67%	69%	ACh	AFh	
		Macro 44 Invert L to R - 7	176	179	69%	70%	B0h	B3h	
		Macro 45 Invert Scan - 7	180	183	71%	72%	B4h	B7h	
		Macro 46 Invert R to L - 7	184	187	72%	73%	B8h	BBh	
		Macro 47 Invert L to R - 8	188	191	74%	75%	BCh	BFh	
		Macro 48 Invert Scan - 8	192	195	75%	76%	C0h	C3h	
		Macro 49 Invert R to L - 8	196	199	77%	78%	C4h	C7h	
		Macro 50 Out/In - 2	200	203	78%	80%	C8h	CBh	
		Macro 51 Out/In - 3	204	207	80%	81%	CCh	CFh	
		Macro 52 Out/In - 4	208	211	82%	83%	D0h	D3h	
		Macro 53 Alternate - 1	212	215	83%	84%	D4h	D7h	
		Macro 54 Alternate - 2	216	219	85%	86%	D8h	DBh	
		Macro 55 Alternate - 3	220	223	86%	87%	DCh	DFh	
		Macro 56 Alternate - 4	224	227	88%	89%	E0h	E3h	
		Macro 57 Alternate - 5	228	231	89%	91%	E4h	E7h	
		...							
		Reserved (see note <a href="#">5 on page 27</a> )	232	255	91%	100%	E8h	FFh	
47	LED Animation Speed	Stop to Fast	0	255	0%	100%	00h	FFh	128
48	LED Animation Xfade	Stop to Fast	0	255	0%	100%	00h	FFh	128
49	Mspeed	Disable	0	3	0%	1%	00h	03h	0
		Longest to Shortest	4	255	2%	100%	04h	FFh	

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
50	Control (see note 4 on page 27)	<b>The Control channel should not be crossfaded. No shutter channel requirement.</b>								
		Safe (Normal Operation )	0	9	0%	4%	00h	09h	0	
		Reserved (see note 5 on page 27)	10	19	4%	7%	0Ah	13h		
		Display Off (send 20 packets)	20	28	8%	11%	14h	1Ch		
		Display On (send 20 packets)	29	35	11%	14%	1Dh	23h		
		Reserved (see note 5 on page 27)	36	48	14%	19%	24h	30h		
		Home All (send 20 packets)	49	68	19%	27%	31h	44h		
		Shutdown (send 80 packets)	69	75	27%	29%	45h	4Bh		
		<b>Fan Control Modes</b>								
		Studio Fan Control Mode (send 20 packets)	76	82	30%	32%	4Ch	52h		
		Reserved (see note 5 on page 27)	83	89	33%	35%	53h	59h		
		Standard Fan Control Mode (send 20 packets)	90	96	35%	38%	5Ah	60h		
		Disable Pan/Tilt Motors	97	103	38%	40%	61h	67h		
		Outrig Mode On	104	109	41%	43%	68h	6Dh		
		Outrig Mode Off	110	115	43%	45%	6Eh	73h		
		Dimming Mode - 100 Hz (send 20 packets)	116	121	45%	47%	74h	79h		
		Dimming Mode - 2.4 kHz (send 20 packets)	122	127	48%	50%	7Ah	7Fh		
		Dimming Mode - 16 kHz (send 20 packets)	128	133	50%	52%	80h	85h		
		Reserved (see note 5 on page 27)	134	160	53%	63%	86h	A0h		
		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				
Reserved (see note 5 on page 27)	238	255	93%	100%	Eh	FFh				
51	Fan Speed	Idle	0	9	0%	4%	00h	09h	0	
		Slow to Fast	10	215	4%	84%	0Ah	D7h		
		Reserved	216	255	85%	100%	D8h	FFh		

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

### Notes

1	<p>Continuous/Indexed mode should take the quickest path from 255-0 and 0-255. Continuous mode color wheel aperture centers are as follows:</p> <table border="1" data-bbox="300 363 836 667"> <thead> <tr> <th>Color</th> <th>Center of Color DMX Value</th> </tr> </thead> <tbody> <tr> <td>Open</td> <td>0</td> </tr> <tr> <td>Red</td> <td>36</td> </tr> <tr> <td>Blue</td> <td>72</td> </tr> <tr> <td>Green</td> <td>109</td> </tr> <tr> <td>TM-30</td> <td>146</td> </tr> <tr> <td>Orange</td> <td>183</td> </tr> <tr> <td>Dark Blue</td> <td>220</td> </tr> </tbody> </table>	Color	Center of Color DMX Value	Open	0	Red	36	Blue	72	Green	109	TM-30	146	Orange	183	Dark Blue	220
Color	Center of Color DMX Value																
Open	0																
Red	36																
Blue	72																
Green	109																
TM-30	146																
Orange	183																
Dark Blue	220																
2	<p>Macros operate independently. The Xfade and speed channels act as multipliers of the programmed speed in the discrete macro steps.</p> <p><b>Speed/Xfade Channel Operation</b></p> <table border="1" data-bbox="300 800 887 1071"> <thead> <tr> <th>Channel</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Stops playback or cross fade</td> </tr> <tr> <td>1-127</td> <td>Decreases playback speed/cross fade time (*&lt;1)</td> </tr> <tr> <td>128</td> <td>Playback or cross fade speed is as programmed (*1)</td> </tr> <tr> <td>129-255</td> <td>Increases playback speed/cross fade time (*&gt;1)</td> </tr> </tbody> </table>	Channel	Description	0	Stops playback or cross fade	1-127	Decreases playback speed/cross fade time (*<1)	128	Playback or cross fade speed is as programmed (*1)	129-255	Increases playback speed/cross fade time (*>1)						
Channel	Description																
0	Stops playback or cross fade																
1-127	Decreases playback speed/cross fade time (*<1)																
128	Playback or cross fade speed is as programmed (*1)																
129-255	Increases playback speed/cross fade time (*>1)																
3	Synchronous Random Strobes are synchronous across fixtures.																
4	When the fixture is turned off it will retain the selected mode.																
5	Reserved ranges should function according to the controller default value.																
6	Framing blades are arranged according to graphics below.																

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

DMX Fixture Orientation	
Tilt Movement Range: 250°; Pan Movement Range: 540° Pan and tilt lock locations are highlighted in orange.	
7	<p>Tilt = 255 DMX Pan = 128 DMX</p>
	<p>Tilt = 128 DMX Pan = 128 DMX</p>
	<p>Tilt = 0 DMX Pan = 128 DMX</p>
	<p>Pan = 0 DMX Tilt = 37 DMX</p>
	<p>Pan = 128 DMX Tilt = 37 DMX</p>
	<p>Pan = 255 DMX Tilt = 37 DMX</p>
8	RDM Manufacturers ID: 0x4c52
9	RDM Device ID: 0x5c3

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

### SolaFrame 3000 Macros

All macros are defined with the pan and tilt locks facing you.

Macro1												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	0	0	0	0	0	0	0	0	0	0	0
2	0	255	0	0	0	0	0	0	0	0	0	0
3	0	0	255	0	0	0	0	0	0	0	0	0
4	0	0	0	255	0	0	0	0	0	0	0	0
5	0	0	0	0	255	0	0	0	0	0	0	0
6	0	0	0	0	0	255	0	0	0	0	0	0
7	0	0	0	0	0	0	255	0	0	0	0	0
8	0	0	0	0	0	0	0	255	0	0	0	0
9	0	0	0	0	0	0	0	0	255	0	0	0
10	0	0	0	0	0	0	0	0	0	255	0	0
11	0	0	0	0	0	0	0	0	0	0	255	0
12	0	0	0	0	0	0	0	0	0	0	0	255

Macro2												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	0	0	0	0	0	0	0	0	0	0	0
2	0	255	0	0	0	0	0	0	0	0	0	0
3	0	0	255	0	0	0	0	0	0	0	0	0
4	0	0	0	255	0	0	0	0	0	0	0	0
5	0	0	0	0	255	0	0	0	0	0	0	0
6	0	0	0	0	0	255	0	0	0	0	0	0
7	0	0	0	0	0	0	255	0	0	0	0	0
8	0	0	0	0	0	0	0	255	0	0	0	0
9	0	0	0	0	0	0	0	0	255	0	0	0
10	0	0	0	0	0	0	0	0	0	255	0	0
11	0	0	0	0	0	0	0	0	0	0	255	0
12	0	0	0	0	0	0	0	0	0	0	0	255
13	0	0	0	0	0	0	0	0	0	0	255	0
14	0	0	0	0	0	0	0	0	0	255	0	0
15	0	0	0	0	0	0	0	0	255	0	0	0
16	0	0	0	0	0	0	0	255	0	0	0	0
17	0	0	0	0	0	0	255	0	0	0	0	0
18	0	0	0	0	0	255	0	0	0	0	0	0
19	0	0	0	0	255	0	0	0	0	0	0	0
20	0	0	0	255	0	0	0	0	0	0	0	0
21	0	0	255	0	0	0	0	0	0	0	0	0
22	0	255	0	0	0	0	0	0	0	0	0	0

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Macro3												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	0	0	0	0	0	0	0	255
2	0	0	0	0	0	0	0	0	0	0	255	0
3	0	0	0	0	0	0	0	0	0	255	0	0
4	0	0	0	0	0	0	0	0	255	0	0	0
5	0	0	0	0	0	0	0	255	0	0	0	0
6	0	0	0	0	0	0	255	0	0	0	0	0
7	0	0	0	0	0	255	0	0	0	0	0	0
8	0	0	0	0	255	0	0	0	0	0	0	0
9	0	0	0	255	0	0	0	0	0	0	0	0
10	0	0	255	0	0	0	0	0	0	0	0	0
11	0	255	0	0	0	0	0	0	0	0	0	0
12	255	0	0	0	0	0	0	0	0	0	0	0

Macro4												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	0	0	0	0	0	0	0	0	0	0
2	0	255	255	0	0	0	0	0	0	0	0	0
3	0	0	255	255	0	0	0	0	0	0	0	0
4	0	0	0	255	255	0	0	0	0	0	0	0
5	0	0	0	0	255	255	0	0	0	0	0	0
6	0	0	0	0	0	255	255	0	0	0	0	0
7	0	0	0	0	0	0	255	255	0	0	0	0
8	0	0	0	0	0	0	0	255	255	0	0	0
9	0	0	0	0	0	0	0	0	255	255	0	0
10	0	0	0	0	0	0	0	0	0	255	255	0
11	0	0	0	0	0	0	0	0	0	0	255	255

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Macro5												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	0	0	0	0	0	0	0	0	0	0
2	0	255	255	0	0	0	0	0	0	0	0	0
3	0	0	255	255	0	0	0	0	0	0	0	0
4	0	0	0	255	255	0	0	0	0	0	0	0
5	0	0	0	0	255	255	0	0	0	0	0	0
6	0	0	0	0	0	255	255	0	0	0	0	0
7	0	0	0	0	0	0	255	255	0	0	0	0
8	0	0	0	0	0	0	0	255	255	0	0	0
9	0	0	0	0	0	0	0	0	255	255	0	0
10	0	0	0	0	0	0	0	0	0	255	255	0
11	0	0	0	0	0	0	0	0	0	0	255	255
12	0	0	0	0	0	0	0	0	0	255	255	0
13	0	0	0	0	0	0	0	0	255	255	0	0
14	0	0	0	0	0	0	0	255	255	0	0	0
15	0	0	0	0	0	0	255	255	0	0	0	0
16	0	0	0	0	0	255	255	0	0	0	0	0
17	0	0	0	0	255	255	0	0	0	0	0	0
18	0	0	0	255	255	0	0	0	0	0	0	0
19	0	0	255	255	0	0	0	0	0	0	0	0
20	0	255	255	0	0	0	0	0	0	0	0	0

Macro6												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	0	0	0	0	0	0	255	255
2	0	0	0	0	0	0	0	0	0	255	255	0
3	0	0	0	0	0	0	0	0	255	255	0	0
4	0	0	0	0	0	0	0	255	255	0	0	0
5	0	0	0	0	0	0	255	255	0	0	0	0
6	0	0	0	0	0	255	255	0	0	0	0	0
7	0	0	0	0	255	255	0	0	0	0	0	0
8	0	0	0	255	255	0	0	0	0	0	0	0
9	0	0	255	255	0	0	0	0	0	0	0	0
10	0	255	255	0	0	0	0	0	0	0	0	0
11	255	255	0	0	0	0	0	0	0	0	0	0

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Macro7												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	0	0	0	0	0	0	0	0	0
2	0	255	255	255	0	0	0	0	0	0	0	0
3	0	0	255	255	255	0	0	0	0	0	0	0
4	0	0	0	255	255	255	0	0	0	0	0	0
5	0	0	0	0	255	255	255	0	0	0	0	0
6	0	0	0	0	0	255	255	255	0	0	0	0
7	0	0	0	0	0	0	255	255	255	0	0	0
8	0	0	0	0	0	0	0	255	255	255	0	0
9	0	0	0	0	0	0	0	0	255	255	255	0
10	0	0	0	0	0	0	0	0	0	255	255	255

Macro8												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	0	0	0	0	0	0	0	0	0
2	0	255	255	255	0	0	0	0	0	0	0	0
3	0	0	255	255	255	0	0	0	0	0	0	0
4	0	0	0	255	255	255	0	0	0	0	0	0
5	0	0	0	0	255	255	255	0	0	0	0	0
6	0	0	0	0	0	255	255	255	0	0	0	0
7	0	0	0	0	0	0	255	255	255	0	0	0
8	0	0	0	0	0	0	0	255	255	255	0	0
9	0	0	0	0	0	0	0	0	255	255	255	0
10	0	0	0	0	0	0	0	0	0	255	255	255
11	0	0	0	0	0	0	0	0	255	255	255	0
12	0	0	0	0	0	0	0	255	255	255	0	0
13	0	0	0	0	0	0	255	255	255	0	0	0
14	0	0	0	0	0	255	255	255	0	0	0	0
15	0	0	0	0	255	255	255	0	0	0	0	0
16	0	0	0	255	255	255	0	0	0	0	0	0
17	0	0	255	255	255	0	0	0	0	0	0	0
18	0	255	255	255	0	0	0	0	0	0	0	0



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## SolaFrame 3000 DMX Channel Map

Macro9												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	0	0	0	0	0	255	255	255
2	0	0	0	0	0	0	0	0	255	255	255	0
3	0	0	0	0	0	0	0	255	255	255	0	0
4	0	0	0	0	0	0	255	255	255	0	0	0
5	0	0	0	0	0	255	255	255	0	0	0	0
6	0	0	0	0	255	255	255	0	0	0	0	0
7	0	0	0	255	255	255	0	0	0	0	0	0
8	0	0	255	255	255	0	0	0	0	0	0	0
9	0	255	255	255	0	0	0	0	0	0	0	0
10	255	255	255	0	0	0	0	0	0	0	0	0

Macro10												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	0	0	0	0	0	0	0	0
2	0	255	255	255	255	0	0	0	0	0	0	0
3	0	0	255	255	255	255	0	0	0	0	0	0
4	0	0	0	255	255	255	255	0	0	0	0	0
5	0	0	0	0	255	255	255	255	0	0	0	0
6	0	0	0	0	0	255	255	255	255	0	0	0
7	0	0	0	0	0	0	255	255	255	255	0	0
8	0	0	0	0	0	0	0	255	255	255	255	0
9	0	0	0	0	0	0	0	0	255	255	255	255

Macro11												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	0	0	0	0	0	0	0	0
2	0	255	255	255	255	0	0	0	0	0	0	0
3	0	0	255	255	255	255	0	0	0	0	0	0
4	0	0	0	255	255	255	255	0	0	0	0	0
5	0	0	0	0	255	255	255	255	0	0	0	0
6	0	0	0	0	0	255	255	255	255	0	0	0
7	0	0	0	0	0	0	255	255	255	255	0	0
8	0	0	0	0	0	0	0	255	255	255	255	0
9	0	0	0	0	0	0	0	0	255	255	255	255
10	0	0	0	0	0	0	0	255	255	255	255	0
11	0	0	0	0	0	0	255	255	255	255	0	0
12	0	0	0	0	0	255	255	255	255	0	0	0
13	0	0	0	0	255	255	255	255	0	0	0	0
14	0	0	0	255	255	255	255	0	0	0	0	0
15	0	0	255	255	255	255	0	0	0	0	0	0
16	0	255	255	255	255	0	0	0	0	0	0	0

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## SolaFrame 3000 DMX Channel Map

Macro12												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	0	0	0	0	255	255	255	255
2	0	0	0	0	0	0	0	255	255	255	255	0
3	0	0	0	0	0	0	255	255	255	255	0	0
4	0	0	0	0	0	255	255	255	255	0	0	0
5	0	0	0	0	255	255	255	255	0	0	0	0
6	0	0	0	255	255	255	255	0	0	0	0	0
7	0	0	255	255	255	255	0	0	0	0	0	0
8	0	255	255	255	255	0	0	0	0	0	0	0
9	255	255	255	255	0	0	0	0	0	0	0	0

Macro13												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	255	0	0	0	0	0	0	0
2	0	255	255	255	255	255	0	0	0	0	0	0
3	0	0	255	255	255	255	255	0	0	0	0	0
4	0	0	0	255	255	255	255	255	0	0	0	0
5	0	0	0	0	255	255	255	255	255	0	0	0
6	0	0	0	0	0	255	255	255	255	255	0	0
7	0	0	0	0	0	0	255	255	255	255	255	0
8	0	0	0	0	0	0	0	255	255	255	255	255

Macro14												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	255	0	0	0	0	0	0	0
2	0	255	255	255	255	255	0	0	0	0	0	0
3	0	0	255	255	255	255	255	0	0	0	0	0
4	0	0	0	255	255	255	255	255	0	0	0	0
5	0	0	0	0	255	255	255	255	255	0	0	0
6	0	0	0	0	0	255	255	255	255	255	0	0
7	0	0	0	0	0	0	255	255	255	255	255	0
8	0	0	0	0	0	0	0	255	255	255	255	255
9	0	0	0	0	0	0	255	255	255	255	255	0
10	0	0	0	0	0	255	255	255	255	255	0	0
11	0	0	0	0	255	255	255	255	255	0	0	0
12	0	0	0	255	255	255	255	255	0	0	0	0
13	0	0	255	255	255	255	255	0	0	0	0	0
14	0	255	255	255	255	255	0	0	0	0	0	0

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## SolaFrame 3000 DMX Channel Map

Macro15												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	0	0	0	255	255	255	255	255
2	0	0	0	0	0	0	255	255	255	255	255	0
3	0	0	0	0	0	255	255	255	255	255	0	0
4	0	0	0	0	255	255	255	255	255	0	0	0
5	0	0	0	255	255	255	255	255	0	0	0	0
6	0	0	255	255	255	255	255	0	0	0	0	0
7	0	255	255	255	255	255	0	0	0	0	0	0
8	255	255	255	255	255	0	0	0	0	0	0	0

Macro16												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	255	255	0	0	0	0	0	0
2	0	255	255	255	255	255	255	0	0	0	0	0
3	0	0	255	255	255	255	255	255	0	0	0	0
4	0	0	0	255	255	255	255	255	255	0	0	0
5	0	0	0	0	255	255	255	255	255	255	0	0
6	0	0	0	0	0	255	255	255	255	255	255	0
7	0	0	0	0	0	0	255	255	255	255	255	255

Macro17												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	255	255	0	0	0	0	0	0
2	0	255	255	255	255	255	255	0	0	0	0	0
3	0	0	255	255	255	255	255	255	0	0	0	0
4	0	0	0	255	255	255	255	255	255	0	0	0
5	0	0	0	0	255	255	255	255	255	255	0	0
6	0	0	0	0	0	255	255	255	255	255	255	0
7	0	0	0	0	0	0	255	255	255	255	255	255
8	0	0	0	0	0	255	255	255	255	255	255	0
9	0	0	0	0	255	255	255	255	255	255	0	0
10	0	0	0	255	255	255	255	255	255	0	0	0
11	0	0	255	255	255	255	255	255	0	0	0	0
12	0	255	255	255	255	255	255	0	0	0	0	0

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Macro18												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	0	0	255	255	255	255	255	255
2	0	0	0	0	0	255	255	255	255	255	255	0
3	0	0	0	0	255	255	255	255	255	255	0	0
4	0	0	0	255	255	255	255	255	255	0	0	0
5	0	0	255	255	255	255	255	255	0	0	0	0
6	0	255	255	255	255	255	255	0	0	0	0	0
7	255	255	255	255	255	255	0	0	0	0	0	0

Macro19												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	255	255	255	0	0	0	0	0
2	0	255	255	255	255	255	255	255	0	0	0	0
3	0	0	255	255	255	255	255	255	255	0	0	0
4	0	0	0	255	255	255	255	255	255	255	0	0
5	0	0	0	0	255	255	255	255	255	255	255	0
6	0	0	0	0	0	255	255	255	255	255	255	255

Macro20												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	255	255	255	0	0	0	0	0
2	0	255	255	255	255	255	255	255	0	0	0	0
3	0	0	255	255	255	255	255	255	255	0	0	0
4	0	0	0	255	255	255	255	255	255	255	0	0
5	0	0	0	0	255	255	255	255	255	255	255	0
6	0	0	0	0	0	255	255	255	255	255	255	255
7	0	0	0	0	255	255	255	255	255	255	255	0
8	0	0	0	255	255	255	255	255	255	255	0	0
9	0	0	255	255	255	255	255	255	255	0	0	0
10	0	255	255	255	255	255	255	255	0	0	0	0

Macro21												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	0	255	255	255	255	255	255	255
2	0	0	0	0	255	255	255	255	255	255	255	0
3	0	0	0	255	255	255	255	255	255	255	0	0
4	0	0	255	255	255	255	255	255	255	0	0	0
5	0	255	255	255	255	255	255	255	0	0	0	0
6	255	255	255	255	255	255	255	0	0	0	0	0

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Macro22												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	255	255	255	255	0	0	0	0
2	0	255	255	255	255	255	255	255	255	0	0	0
3	0	0	255	255	255	255	255	255	255	255	0	0
4	0	0	0	255	255	255	255	255	255	255	255	0
5	0	0	0	0	255	255	255	255	255	255	255	255

Macro23												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	255	255	255	255	0	0	0	0
2	0	255	255	255	255	255	255	255	255	0	0	0
3	0	0	255	255	255	255	255	255	255	255	0	0
4	0	0	0	255	255	255	255	255	255	255	255	0
5	0	0	0	0	255	255	255	255	255	255	255	255
6	0	0	0	255	255	255	255	255	255	255	255	0
7	0	0	255	255	255	255	255	255	255	255	0	0
8	0	255	255	255	255	255	255	255	255	0	0	0

Macro24												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	255	255	255	255	255	255	255	255
2	0	0	0	255	255	255	255	255	255	255	255	0
3	0	0	255	255	255	255	255	255	255	255	0	0
4	0	255	255	255	255	255	255	255	255	0	0	0
5	255	255	255	255	255	255	255	255	0	0	0	0

Macro25												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	255	255	0	0	0	0	0	0
2	0	0	0	0	0	0	255	255	255	255	255	255

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Macro26												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	255	255	255	255	255	255	255	255	255	255	255
2	255	0	255	255	255	255	255	255	255	255	255	255
3	255	255	0	255	255	255	255	255	255	255	255	255
4	255	255	255	0	255	255	255	255	255	255	255	255
5	255	255	255	255	0	255	255	255	255	255	255	255
6	255	255	255	255	255	0	255	255	255	255	255	255
7	255	255	255	255	255	255	0	255	255	255	255	255
8	255	255	255	255	255	255	255	0	255	255	255	255
9	255	255	255	255	255	255	255	255	0	255	255	255
10	255	255	255	255	255	255	255	255	255	0	255	255
11	255	255	255	255	255	255	255	255	255	255	0	255
12	255	255	255	255	255	255	255	255	255	255	255	0

Macro27												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	255	255	255	255	255	255	255	255	255	255	255
2	255	0	255	255	255	255	255	255	255	255	255	255
3	255	255	0	255	255	255	255	255	255	255	255	255
4	255	255	255	0	255	255	255	255	255	255	255	255
5	255	255	255	255	0	255	255	255	255	255	255	255
6	255	255	255	255	255	0	255	255	255	255	255	255
7	255	255	255	255	255	255	0	255	255	255	255	255
8	255	255	255	255	255	255	255	0	255	255	255	255
9	255	255	255	255	255	255	255	255	0	255	255	255
10	255	255	255	255	255	255	255	255	255	0	255	255
11	255	255	255	255	255	255	255	255	255	255	0	255
12	255	255	255	255	255	255	255	255	255	255	255	0
13	255	255	255	255	255	255	255	255	255	255	0	255
14	255	255	255	255	255	255	255	255	255	0	255	255
15	255	255	255	255	255	255	255	255	0	255	255	255
16	255	255	255	255	255	255	255	0	255	255	255	255
17	255	255	255	255	255	255	0	255	255	255	255	255
18	255	255	255	255	255	0	255	255	255	255	255	255
19	255	255	255	255	0	255	255	255	255	255	255	255
20	255	255	255	0	255	255	255	255	255	255	255	255
21	255	255	0	255	255	255	255	255	255	255	255	255
22	255	0	255	255	255	255	255	255	255	255	255	255

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Macro28												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	255	255	255	255	255	255	255	0
2	255	255	255	255	255	255	255	255	255	255	0	255
3	255	255	255	255	255	255	255	255	255	0	255	255
4	255	255	255	255	255	255	255	255	0	255	255	255
5	255	255	255	255	255	255	255	0	255	255	255	255
6	255	255	255	255	255	255	0	255	255	255	255	255
7	255	255	255	255	255	0	255	255	255	255	255	255
8	255	255	255	255	0	255	255	255	255	255	255	255
9	255	255	255	0	255	255	255	255	255	255	255	255
10	255	255	0	255	255	255	255	255	255	255	255	255
11	255	0	255	255	255	255	255	255	255	255	255	255
12	0	255	255	255	255	255	255	255	255	255	255	255

Macro29												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	255	255	255	255	255	255	255	255	255	255
2	255	0	0	255	255	255	255	255	255	255	255	255
3	255	255	0	0	255	255	255	255	255	255	255	255
4	255	255	255	0	0	255	255	255	255	255	255	255
5	255	255	255	255	0	0	255	255	255	255	255	255
6	255	255	255	255	255	0	0	255	255	255	255	255
7	255	255	255	255	255	255	0	0	255	255	255	255
8	255	255	255	255	255	255	255	0	0	255	255	255
9	255	255	255	255	255	255	255	255	0	0	255	255
10	255	255	255	255	255	255	255	255	255	0	0	255
11	255	255	255	255	255	255	255	255	255	255	0	0

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Macro30												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	255	255	255	255	255	255	255	255	255	255
2	255	0	0	255	255	255	255	255	255	255	255	255
3	255	255	0	0	255	255	255	255	255	255	255	255
4	255	255	255	0	0	255	255	255	255	255	255	255
5	255	255	255	255	0	0	255	255	255	255	255	255
6	255	255	255	255	255	0	0	255	255	255	255	255
7	255	255	255	255	255	255	0	0	255	255	255	255
8	255	255	255	255	255	255	255	0	0	255	255	255
9	255	255	255	255	255	255	255	255	0	0	255	255
10	255	255	255	255	255	255	255	255	255	0	0	255
11	255	255	255	255	255	255	255	255	255	255	0	0
12	255	255	255	255	255	255	255	255	255	0	0	255
13	255	255	255	255	255	255	255	255	0	0	255	255
14	255	255	255	255	255	255	255	0	0	255	255	255
15	255	255	255	255	255	255	0	0	255	255	255	255
16	255	255	255	255	255	0	0	255	255	255	255	255
17	255	255	255	255	0	0	255	255	255	255	255	255
18	255	255	255	0	0	255	255	255	255	255	255	255
19	255	255	0	0	255	255	255	255	255	255	255	255
20	255	0	0	255	255	255	255	255	255	255	255	255

Macro31												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	255	255	255	255	255	255	0	0
2	255	255	255	255	255	255	255	255	255	0	0	255
3	255	255	255	255	255	255	255	255	0	0	255	255
4	255	255	255	255	255	255	255	0	0	255	255	255
5	255	255	255	255	255	255	0	0	255	255	255	255
6	255	255	255	255	255	0	0	255	255	255	255	255
7	255	255	255	255	0	0	255	255	255	255	255	255
8	255	255	255	0	0	255	255	255	255	255	255	255
9	255	255	0	0	255	255	255	255	255	255	255	255
10	255	0	0	255	255	255	255	255	255	255	255	255
11	0	0	255	255	255	255	255	255	255	255	255	255



# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Macro32												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	255	255	255	255	255	255	255	255	255
2	255	0	0	0	255	255	255	255	255	255	255	255
3	255	255	0	0	0	255	255	255	255	255	255	255
4	255	255	255	0	0	0	255	255	255	255	255	255
5	255	255	255	255	0	0	0	255	255	255	255	255
6	255	255	255	255	255	0	0	0	255	255	255	255
7	255	255	255	255	255	255	0	0	0	255	255	255
8	255	255	255	255	255	255	255	0	0	0	255	255
9	255	255	255	255	255	255	255	255	0	0	0	255
10	255	255	255	255	255	255	255	255	255	0	0	0

Macro33												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	255	255	255	255	255	255	255	255	255
2	255	0	0	0	255	255	255	255	255	255	255	255
3	255	255	0	0	0	255	255	255	255	255	255	255
4	255	255	255	0	0	0	255	255	255	255	255	255
5	255	255	255	255	0	0	0	255	255	255	255	255
6	255	255	255	255	255	0	0	0	255	255	255	255
7	255	255	255	255	255	255	0	0	0	255	255	255
8	255	255	255	255	255	255	255	0	0	0	255	255
9	255	255	255	255	255	255	255	255	0	0	0	255
10	255	255	255	255	255	255	255	255	255	0	0	0
11	255	255	255	255	255	255	255	255	0	0	0	255
12	255	255	255	255	255	255	255	0	0	0	255	255
13	255	255	255	255	255	255	0	0	0	255	255	255
14	255	255	255	255	255	0	0	0	255	255	255	255
15	255	255	255	255	0	0	0	255	255	255	255	255
16	255	255	255	0	0	0	255	255	255	255	255	255
17	255	255	0	0	0	255	255	255	255	255	255	255
18	255	0	0	0	255	255	255	255	255	255	255	255

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Macro34												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	255	255	255	255	255	0	0	0
2	255	255	255	255	255	255	255	255	0	0	0	255
3	255	255	255	255	255	255	255	0	0	0	255	255
4	255	255	255	255	255	255	0	0	0	255	255	255
5	255	255	255	255	255	0	0	0	255	255	255	255
6	255	255	255	255	0	0	0	255	255	255	255	255
7	255	255	255	0	0	0	255	255	255	255	255	255
8	255	255	0	0	0	255	255	255	255	255	255	255
9	255	0	0	0	255	255	255	255	255	255	255	255
10	0	0	0	255	255	255	255	255	255	255	255	255

Macro35												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	255	255	255	255	255	255	255	255
2	255	0	0	0	0	255	255	255	255	255	255	255
3	255	255	0	0	0	0	255	255	255	255	255	255
4	255	255	255	0	0	0	0	255	255	255	255	255
5	255	255	255	255	0	0	0	0	255	255	255	255
6	255	255	255	255	255	0	0	0	0	255	255	255
7	255	255	255	255	255	255	0	0	0	0	255	255
8	255	255	255	255	255	255	255	0	0	0	0	255
9	255	255	255	255	255	255	255	255	0	0	0	0

Macro36												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	255	255	255	255	255	255	255	255
2	255	0	0	0	0	255	255	255	255	255	255	255
3	255	255	0	0	0	0	255	255	255	255	255	255
4	255	255	255	0	0	0	0	255	255	255	255	255
5	255	255	255	255	0	0	0	0	255	255	255	255
6	255	255	255	255	255	0	0	0	0	255	255	255
7	255	255	255	255	255	255	0	0	0	0	255	255
8	255	255	255	255	255	255	255	0	0	0	0	255
9	255	255	255	255	255	255	255	255	0	0	0	0
10	255	255	255	255	255	255	255	0	0	0	0	255
11	255	255	255	255	255	255	0	0	0	0	255	255
12	255	255	255	255	255	0	0	0	0	255	255	255
13	255	255	255	255	0	0	0	0	255	255	255	255
14	255	255	255	0	0	0	0	255	255	255	255	255
15	255	255	0	0	0	0	255	255	255	255	255	255
16	255	0	0	0	0	255	255	255	255	255	255	255

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Macro37												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	255	255	255	255	0	0	0	0
2	255	255	255	255	255	255	255	0	0	0	0	255
3	255	255	255	255	255	255	0	0	0	0	255	255
4	255	255	255	255	255	0	0	0	0	255	255	255
5	255	255	255	255	0	0	0	0	255	255	255	255
6	255	255	255	0	0	0	0	255	255	255	255	255
7	255	255	0	0	0	0	255	255	255	255	255	255
8	255	0	0	0	0	255	255	255	255	255	255	255
9	0	0	0	0	255	255	255	255	255	255	255	255

Macro38												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	0	255	255	255	255	255	255	255
2	255	0	0	0	0	0	255	255	255	255	255	255
3	255	255	0	0	0	0	0	255	255	255	255	255
4	255	255	255	0	0	0	0	0	255	255	255	255
5	255	255	255	255	0	0	0	0	0	255	255	255
6	255	255	255	255	255	0	0	0	0	0	255	255
7	255	255	255	255	255	255	0	0	0	0	0	255
8	255	255	255	255	255	255	255	0	0	0	0	0

Macro39												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	0	255	255	255	255	255	255	255
2	255	0	0	0	0	0	255	255	255	255	255	255
3	255	255	0	0	0	0	0	255	255	255	255	255
4	255	255	255	0	0	0	0	0	255	255	255	255
5	255	255	255	255	0	0	0	0	0	255	255	255
6	255	255	255	255	255	0	0	0	0	0	255	255
7	255	255	255	255	255	255	0	0	0	0	0	255
8	255	255	255	255	255	255	255	0	0	0	0	0
9	255	255	255	255	255	255	0	0	0	0	0	255
10	255	255	255	255	255	0	0	0	0	0	255	255
11	255	255	255	255	0	0	0	0	0	255	255	255
12	255	255	255	0	0	0	0	0	255	255	255	255
13	255	255	0	0	0	0	0	255	255	255	255	255
14	255	0	0	0	0	0	255	255	255	255	255	255

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Macro40												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	255	255	255	0	0	0	0	0
2	255	255	255	255	255	255	0	0	0	0	0	255
3	255	255	255	255	255	0	0	0	0	0	255	255
4	255	255	255	255	0	0	0	0	0	255	255	255
5	255	255	255	0	0	0	0	0	255	255	255	255
6	255	255	0	0	0	0	0	255	255	255	255	255
7	255	0	0	0	0	0	255	255	255	255	255	255
8	0	0	0	0	0	255	255	255	255	255	255	255

Macro41												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	0	0	255	255	255	255	255	255
2	255	0	0	0	0	0	0	255	255	255	255	255
3	255	255	0	0	0	0	0	0	255	255	255	255
4	255	255	255	0	0	0	0	0	0	255	255	255
5	255	255	255	255	0	0	0	0	0	0	255	255
6	255	255	255	255	255	0	0	0	0	0	0	255
7	255	255	255	255	255	255	0	0	0	0	0	0

Macro42												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	0	0	255	255	255	255	255	255
2	255	0	0	0	0	0	0	255	255	255	255	255
3	255	255	0	0	0	0	0	0	255	255	255	255
4	255	255	255	0	0	0	0	0	0	255	255	255
5	255	255	255	255	0	0	0	0	0	0	255	255
6	255	255	255	255	255	0	0	0	0	0	0	255
7	255	255	255	255	255	255	0	0	0	0	0	0
8	255	255	255	255	255	0	0	0	0	0	0	255
9	255	255	255	255	0	0	0	0	0	0	255	255
10	255	255	255	0	0	0	0	0	0	255	255	255
11	255	255	0	0	0	0	0	0	255	255	255	255
12	255	0	0	0	0	0	0	255	255	255	255	255

# ETC Reference Guide

## SolaFrame 3000 DMX Channel Map

Macro43												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	255	255	0	0	0	0	0	0
2	255	255	255	255	255	0	0	0	0	0	0	255
3	255	255	255	255	0	0	0	0	0	0	255	255
4	255	255	255	0	0	0	0	0	0	255	255	255
5	255	255	0	0	0	0	0	0	255	255	255	255
6	255	0	0	0	0	0	0	255	255	255	255	255
7	0	0	0	0	0	0	255	255	255	255	255	255

Macro44												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	0	0	0	255	255	255	255	255
2	255	0	0	0	0	0	0	0	255	255	255	255
3	255	255	0	0	0	0	0	0	0	255	255	255
4	255	255	255	0	0	0	0	0	0	0	255	255
5	255	255	255	255	0	0	0	0	0	0	0	255
6	255	255	255	255	255	0	0	0	0	0	0	0

Macro45												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	0	0	0	255	255	255	255	255
2	255	0	0	0	0	0	0	0	255	255	255	255
3	255	255	0	0	0	0	0	0	0	255	255	255
4	255	255	255	0	0	0	0	0	0	0	255	255
5	255	255	255	255	0	0	0	0	0	0	0	255
6	255	255	255	255	255	0	0	0	0	0	0	0
7	255	255	255	255	0	0	0	0	0	0	0	255
8	255	255	255	0	0	0	0	0	0	0	255	255
9	255	255	0	0	0	0	0	0	0	255	255	255
10	255	0	0	0	0	0	0	0	255	255	255	255

Macro46												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	255	0	0	0	0	0	0	0
2	255	255	255	255	0	0	0	0	0	0	0	255
3	255	255	255	0	0	0	0	0	0	0	255	255
4	255	255	0	0	0	0	0	0	0	255	255	255
5	255	0	0	0	0	0	0	0	255	255	255	255
6	0	0	0	0	0	0	0	255	255	255	255	255

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## SolaFrame 3000 DMX Channel Map

Macro47												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	0	0	0	0	255	255	255	255
2	255	0	0	0	0	0	0	0	0	255	255	255
3	255	255	0	0	0	0	0	0	0	0	255	255
4	255	255	255	0	0	0	0	0	0	0	0	255
5	255	255	255	255	0	0	0	0	0	0	0	0

Macro48												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	0	0	0	0	0	0	0	0	255	255	255	255
2	255	0	0	0	0	0	0	0	0	255	255	255
3	255	255	0	0	0	0	0	0	0	0	255	255
4	255	255	255	0	0	0	0	0	0	0	0	255
5	255	255	255	255	0	0	0	0	0	0	0	0
6	255	255	255	0	0	0	0	0	0	0	0	255
7	255	255	0	0	0	0	0	0	0	0	255	255
8	255	0	0	0	0	0	0	0	0	255	255	255

Macro49												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	0	0	0	0	0	0	0	0
2	255	255	255	0	0	0	0	0	0	0	0	255
3	255	255	0	0	0	0	0	0	0	0	255	255
4	255	0	0	0	0	0	0	0	0	255	255	255
5	0	0	0	0	0	0	0	0	255	255	255	255

Macro50												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	0	0	0	0	0	0	0	0	255	255
2	0	255	255	0	0	0	0	0	0	255	255	0
3	0	0	255	255	0	0	0	0	255	255	0	0
4	0	0	0	255	255	0	0	255	255	0	0	0
5	0	0	0	0	255	255	255	255	0	0	0	0
6	0	0	0	255	255	0	0	255	255	0	0	0
7	0	0	255	255	0	0	0	0	255	255	0	0
8	0	255	255	0	0	0	0	0	0	255	255	0
9	255	255	0	0	0	0	0	0	0	0	255	255

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## SolaFrame 3000 DMX Channel Map

Macro51												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	0	0	0	0	0	0	255	255	255
2	0	255	255	255	0	0	0	0	255	255	255	0
3	0	0	255	255	255	0	0	255	255	255	0	0
4	0	0	0	255	255	255	255	255	255	0	0	0
5	0	0	255	255	255	0	0	255	255	255	0	0
6	0	255	255	255	0	0	0	0	255	255	255	0
7	255	255	255	0	0	0	0	0	0	255	255	255

Macro52												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	0	0	0	0	255	255	255	255
2	0	255	255	255	255	0	0	255	255	255	255	0
3	0	0	255	255	255	255	255	255	255	255	0	0
4	0	255	255	255	255	0	0	255	255	255	255	0
5	255	255	255	255	0	0	0	0	255	255	255	255

Macro53												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	255

Macro54												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	255	255

Macro55												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	255	255	255

Macro56												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	255	255	255	255

Macro57												
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	LED9	LED10	LED11	LED12
1	255	255	255	255	255	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	255	255	255	255	255

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## SolaFrame 3000 DMX Channel Map

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### Revision History

Revision	Change	Release Date
D	Changed the name of the Enhanced Dual Frost Protocol to "Enhanced Dual Diffusion Protocol". Added channel 51, Fan Speed, to the Enhanced Protocol and the Enhanced Dual Diffusion Protocol. Updated the 16-bit function data. Added the pulse width modulation (PWM) frequency selections to the Control Channel in each protocol, and removed the Continuous Fan Mode from Channel 50, Control, in the Enhanced Protocol and the Enhanced Dual Diffusion Protocol.	July 2021
C	Removed the mSpeed table.	February 2021
B	Added the Enhanced Dual Frost Protocol and the DMX Fixture Orientation graphic.	February 2020
A	Initial release	July 2019