

ETC Reference Guide

High End Systems Halcyon Titanium DMX Channel Map

Halcyon Titanium DMX Channel Map

Standard Protocol			
Channel	Function	Channel	Function
1	Pan Coarse	31	Frame Rotate Fine
2	Pan Fine	32	Animation Insertion
3	Tilt Coarse	33	Animation
4	Tilt Fine	34	Prism 1 Mode
5	Color Mode	35	Prism 1 Coarse
6	Cyan	36	Prism 1 Fine
7	Magenta	37	Prism 2 Mode
8	Yellow	38	Prism 2 Coarse
9	CTO	39	Prism 2 Fine
10	Color Wheel Mode	40	Trifusion
11	Color Wheel	41	Diffusion 1
12	Rotating Gobo Wheel 1 Mode	42	Diffusion 2
13	Rotating Gobo Wheel 1	43	Diffusion 3
14	Rotating Gobo 1 Mode	44	Focus Coarse
15	Rotating Gobo 1 Coarse	45	Focus Fine
16	Rotating Gobo 1 Fine	46	Zoom Coarse
17	Rotating Gobo Wheel 2 Mode	47	Zoom Fine
18	Rotating Gobo Wheel 2	48	Auto Focus
19	Rotating Gobo 2 Mode	49	Auto Focus Fine
20	Rotating Gobo 2 Coarse	50	Iris
21	Rotating Gobo 2 Fine	51	Strobe Mode
22	Blade 1 Angle A	52	Strobe
23	Blade 1 Angle B	53	Dimmer Coarse
24	Blade 2 Angle A	54	Dimmer Fine
25	Blade 2 Angle B	55	LED Animation
26	Blade 3 Angle A	56	LED Animation Speed
27	Blade 3 Angle B	57	LED Animation Crossfade
28	Blade 4 Angle A	58	mSpeed
29	Blade 4 Angle B	59	Control
30	Frame Rotate Coarse	60	Fan



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Halcyon Titanium Standard Protocol

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Default	
1/2	Pan (Coarse/Fine)	See note 6 on page 11	0	65535	0%	100%	0000h	FFFFh	32512	
3/4	Tilt (Coarse/Fine)	See note 6 on page 11	0	65535	0%	100%	0000h	FFFFh	32512	
5	Color Mode	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 4 on page 10)	64	255	25%	100%	40h	FFh		
6	Cyan	Pure Mix								255
		Full Saturation to Open	0	255	0%	100%	00h	FFh		
		Cycle & Random								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	Color Wheel Mode	Indexed (see note 1 on page 10)	0	15	0%	6%	00h	0Fh	0	
		Forward Spin	16	31	6%	12%	10h	1Fh		
		Reverse Spin	32	47	13%	18%	20h	2Fh		
		Continuous (see note 1 on page 10)	48	63	19%	25%	30h	3Fh		
		Scan	64	79	25%	31%	40h	4Fh		
		Random	80	95	31%	37%	50h	5Fh		
		Reserved (see note 4 on page 10)	96	255	38%	100%	60h	FFh		

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Default		
11	Color Wheel	Indexed									
		Open (White)	0	15	0%	6%	00h	0Fh	0		
		Open/Red	16	31	6%	12%	10h	1Fh			
		Red	32	47	13%	18%	20h	2Fh			
		Red/Blue	48	63	19%	25%	30h	3Fh			
		Blue	64	79	25%	31%	40h	4Fh			
		Blue/TM-30	80	95	31%	37%	50h	5Fh			
		TM-30	96	111	38%	44%	60h	6Fh			
		TM-30/Orange	112	127	44%	50%	70h	7Fh			
		Orange	128	143	50%	56%	80h	8Fh			
		Orange/Dark Blue	144	159	56%	62%	90h	9Fh			
		Dark Blue	160	175	63%	69%	A0h	AFh			
		Dark Blue/CTB	176	191	69%	75%	B0h	BFh			
		CTB	192	207	75%	81%	C0h	CFh			
		CTB/Open	208	223	82%	87%	D0h	DFh			
		Open (White)	224	255	88%	100%	E0h	EFh			
				Scan							
				Open/Red, Slow to Fast	0	29	0%	11%	00h	1Dh	0
				Red/Blue, Slow to Fast	30	59	12%	23%	1Eh	3Bh	
				Blue/TM-30, Slow to Fast	60	89	24%	35%	3Ch	59h	
				TM-30/Orange, Slow to Fast	90	119	35%	47%	5Ah	77h	
				Orange/Dark Blue, Slow to Fast	120	149	47%	58%	78h	95h	
				Dark Blue/CTB, Slow to Fast	150	179	59%	70%	96h	B3h	
				CTB/Open, Slow to Fast	180	255	71%	100%	B4h	FFh	
				Spin & Random							
				Stop	0	0	0%	0%	00h	00h	0
				Slow to Fast	1	255	0%	100%	01h	FFh	
		Continuous									
		Positioning from 0° to 359°	0	255	0%	100%	00h	FFh	0		
12	Rotating Gobo Wheel 1 Mode	Indexed	0	15	0%	6%	00h	0Fh	0		
		Forward Spin	16	31	6%	12%	10h	1Fh			
		Reverse Spin	32	47	13%	18%	20h	2Fh			
		Scan	48	63	19%	25%	30h	3Fh			
		Random	64	79	25%	31%	40h	4Fh			
		Reserved (see note 4 on page 10)	80	255	31%	100%	50h	FFh			

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Default
13	Rotating Gobo Wheel 1 (see Halcyon Titanium Gobos on page 21)	Indexed & Scan							0
		Open	0	15	0%	6%	00h	0Fh	
		Gobo 1 - Wiggle Lines	16	31	6%	12%	10h	1Fh	
		Gobo 2 - Mycelium	32	47	13%	18%	20h	2Fh	
		Gobo 3 - Bob's Brush	48	63	19%	25%	30h	3Fh	
		Gobo 4 - The Claw	64	79	25%	31%	40h	4Fh	
		Gobo 5 - Cut Cone	80	95	31%	37%	50h	5Fh	
		Gobo 6 - Split-S	96	111	38%	44%	60h	6Fh	
		Gobo 7 - Ice	112	127	44%	50%	70h	7Fh	
		Open	128	255	50%	100%	80h	FFh	
		Spin & Random							0
		Stop	0	3	0%	1%	00h	03h	
		Slow to Fast	4	255	2%	100%	04h	FFh	
14	Rotating Gobo 1 Mode	Indexed	0	15	0%	6%	00h	0Fh	0
		Forward Spin	16	31	6%	12%	10h	1Fh	
		Reverse Spin	32	47	13%	18%	20h	2Fh	
		Forward Animate	48	63	19%	25%	30h	3Fh	
		Reverse Animate	64	79	25%	31%	40h	4Fh	
		Reserved (see note 4 on page 10)	80	255	31%	100%	50h	FFh	
15/16	Rotating Gobo 1 (Coarse/Fine)	Indexed							32767
		0° to 359°	0	65535	0%	100%	0000h	FFFFh	
		Spin & Animate							32767
		Stop	0	1023	0%	2%	0000h	03FFh	
		Slow to Fast	1024	65535	2%	100%	0400h	FFFFh	
17	Rotating Gobo Wheel 2 Mode	Indexed	0	15	0%	6%	00h	0Fh	0
		Forward Spin	16	31	6%	12%	10h	1Fh	
		Reverse Spin	32	47	13%	18%	20h	2Fh	
		Scan	48	63	19%	25%	30h	3Fh	
		Random	64	79	25%	31%	40h	4Fh	
		Reserved (see note 4 on page 10)	80	255	31%	100%	50h	FFh	
18	Rotating Gobo Wheel 2 (see Halcyon Titanium Gobos on page 21)	Indexed & Scan							0
		Open	0	15	0%	6%	00h	0Fh	
		Gobo 1 - Texture Drops	16	31	6%	12%	10h	1Fh	
		Gobo 2 - Lovely Bubbly	32	47	13%	18%	20h	2Fh	
		Gobo 3 - Art Ducko	48	63	19%	25%	30h	3Fh	
		Gobo 4 - Window Matrix	64	79	25%	31%	40h	4Fh	
		Gobo 5 - Swirly Gig	80	95	31%	37%	50h	5Fh	
		Gobo 6 - Fenced In	96	111	38%	44%	60h	6Fh	
		Gobo 7 - The Only Way Is Up	112	127	44%	50%	70h	7Fh	
		Open	128	255	50%	100%	80h	FFh	
		Spin & Random							0
		Stop	0	3	0%	1%	00h	03h	
		Slow to Fast	4	255	2%	100%	04h	FFh	

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Default
19	Rotating Gobo 2 Mode	Indexed	0	15	0%	6%	00h	0Fh	0
		Forward Spin	16	31	6%	12%	10h	1Fh	
		Reverse Spin	32	47	13%	18%	20h	2Fh	
		Forward Animate	48	63	19%	25%	30h	3Fh	
		Reverse Animate	64	79	25%	31%	40h	4Fh	
		Reserved (see note 4 on page 10)	80	255	31%	100%	50h	FFh	
20/21	Rotating Gobo 2 (Coarse/Fine)	Indexed							
		0° to 359°	0	65535	0%	100%	0000h	FFFFh	32767
		Spin & Animate							
		Stop	0	1023	0%	2%	0000h	03FFh	32767
		Slow to Fast	1024	65535	2%	100%	0400h	FFFFh	
22	Blade 1 Angle A (see note 5 on page 10)	Removed to Inserted	0	255	0%	100%	00h	FFh	0
23	Blade 1 Angle B (see note 5 on page 10)	Removed to Inserted	0	255	0%	100%	00h	FFh	0
24	Blade 2 Angle A (see note 5 on page 10)	Removed to Inserted	0	255	0%	100%	00h	FFh	0
25	Blade 2 Angle B (see note 5 on page 10)	Removed to Inserted	0	255	0%	100%	00h	FFh	0
26	Blade 3 Angle A (see note 5 on page 10)	Removed to Inserted	0	255	0%	100%	00h	FFh	0
27	Blade 3 Angle B (see note 5 on page 10)	Removed to Inserted	0	255	0%	100%	00h	FFh	0
28	Blade 4 Angle A (see note 5 on page 10)	Removed to Inserted	0	255	0%	100%	00h	FFh	0
29	Blade 4 Angle B (see note 5 on page 10)	Removed to Inserted	0	255	0%	100%	00h	FFh	0
30/31	Frame Rotate (Coarse/Fine)	-90° to 90°	0	65535	0%	100%	00h	FFFFh	32767
32	Animation Insertion	Full Insert	0	100	0%	39%	00h	64h	0
		Adjust Incline	101	255	40%	100%	65h	FFh	
33	Animation	Forward Spin, Stop to Fast	0	63	0%	25%	00h	3Fh	0
		Reverse Spin, Stop to Fast	64	127	25%	50%	40h	7Fh	
		Forward Animate, Stop to Fast	128	191	50%	75%	80h	BFh	
		Reverse Animate, Stop to Fast	192	255	75%	100%	C0h	FFh	
34	Prism 1 Mode	Removed	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 Animate	64	79	25%	31%	40h	4Fh	
		Reverse Animate	80	95	31%	37%	50h	5Fh	
		Reserved (see note 4 on page 10)	96	255	38%	100%	60h	FFh	

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Default
35/36	Prism 1 (Coarse/Fine)	Continuous							32767
		0° to 359°	0	65535	0%	100%	0000h	FFFFh	
		Spin & Animate							0
		Stop	0	1023	0%	2%	0000h	03FFh	
		Slow to Fast	1024	65535	2%	100%	0400h	FFFFh	
37	Prism 2 Mode	Removed	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 Animate	64	79	25%	31%	40h	4Fh	
		Reverse Animate	80	95	31%	37%	50h	5Fh	
		Reserved (see note 4 on page 10)	96	255	38%	100%	60h	FFh	
38/39	Prism 2 (Coarse/Fine)	Continuous							32767
		0° to 359°	0	65535	0%	100%	0000h	FFFFh	
		Spin & Animate							0
		Stop	0	1023	0%	2%	0000h	03FFh	
		Slow to Fast	1024	65535	2%	100%	0400h	FFFFh	
40	Trifusion	Hard to Soft Edge	0	255	0%	100%	00h	FFh	0
41	Diffusion 1	Trifusion Channel = 0							0
		Removed	0	0	0%	0%	0000h	0000h	
		Hard to Soft Edge	1	65535	0%	100%	0001h	FFFFh	
		Trifusion Channel ≥ 1							-
Disabled	-	-	-	-	-	-			
42	Diffusion 2	Trifusion Channel = 0							0
		Removed	0	0	0%	0%	0000h	0000h	
		Hard to Soft Edge	1	65535	0%	100%	0001h	FFFFh	
		Trifusion Channel ≥ 1							-
Disabled	-	-	-	-	-	-			
43	Diffusion 3	Trifusion Channel = 0							0
		Removed	0	0	0%	0%	0000h	0000h	
		Hard to Soft Edge	1	65535	0%	100%	0001h	FFFFh	
		Trifusion Channel ≥ 1							-
Disabled	-	-	-	-	-	-			
44/45	Focus (Coarse/Fine)	Focus	0	65535	0%	100%	00h	FFFFh	0
46/47	Zoom	6° to 60°	0	65535	0%	100%	00h	FFFFh	0
48	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	
49	Auto Focus Fine	Focus In to Out Fine	0	255	0%	100%	00h	FFh	0
50	Iris	Closed to Open	0	255	0%	100%	00h	FFh	255

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Default
51	Strobe Mode	Normal	0	15	0%	6%	00h	0Fh	0
		Random	16	31	6%	12%	10h	1Fh	
		Synchronous Random (see note 2 on page 10)	32	47	13%	18%	20h	2Fh	
		Reserved (see note 4 on page 10)	48	255	19%	100%	30h	FFh	
52	Strobe	Closed	0	0	0%	0%	00h	00h	0
		Slow to Fast	1	254	0%	100%	01h	FEh	
		Open	255	255	100%	100%	FFh	FFh	
53/54	Dimmer (Coarse/Fine)	Off to Full	0	65535	0%	100%	00h	FFFFh	0

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Halcyon Titanium DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Default
55	LED Animation (see Halcyon Titanium LED Macros on page 12)	Macro Off	0	3	0%	1%	00h	03h	0
		Macro 1: L to R - 1	4	7	2%	3%	04h	07h	
		Macro 2: L to R - 2	8	11	3%	4%	08h	0Bh	
		Macro 3: L to R - 3	12	15	5%	6%	0Ch	0Fh	
		Macro 4: R to L - 1	16	19	6%	7%	10h	13h	
		Macro 5: R to L - 2	20	23	8%	9%	14h	17h	
		Macro 6: R to L - 3	24	27	9%	11%	18h	1Bh	
		Macro 7: Scan - 1	28	31	11%	12%	1Ch	1Fh	
		Macro 8: Scan - 2	32	35	13%	14%	20h	23h	
		Macro 9: Scan - 3	36	39	14%	15%	24h	27h	
		Macro 10: Invert L to R - 1	40	43	16%	17%	28h	2Bh	
		Macro 11: Invert L to R - 2	44	47	17%	18%	2Ch	2Fh	
		Macro 12: Invert L to R - 3	48	51	19%	20%	30h	33h	
		Macro 13: Invert R to L - 1	52	55	20%	22%	34h	37h	
		Macro 14: Invert R to L - 2	56	59	22%	23%	38h	3Bh	
		Macro 15: Invert R to L - 3	60	63	24%	25%	3Ch	3Fh	
		Macro 16: Invert Scan - 1	64	67	25%	26%	40h	43h	
		Macro 17: Invert Scan - 2	68	71	27%	28%	44h	47h	
		Macro 18: Invert Scan - 3	72	75	28%	29%	48h	4Bh	
		Macro 19: Out/In - 2	76	79	30%	31%	4Ch	4Fh	
		Macro 20: Out/In - 4	80	83	31%	33%	50h	53h	
		Macro 21: In/Out - 2	84	87	33%	34%	54h	57h	
		Macro 22: Out/In/Out - 2	88	91	35%	36%	58h	5Bh	
		Macro 23: Invert Out/In - 2	92	95	36%	37%	5Ch	5Fh	
		Macro 24: Invert In/Out - 2	96	99	38%	39%	60h	63h	
		Macro 25: Invert Out/In/Out - 2	100	103	39%	40%	64h	67h	
		Macro 26: Alternate - 3	104	107	41%	42%	68h	6Bh	
		Macro 27: Alternate - 4	108	111	42%	44%	6Ch	6Fh	
		Macro 28: Stairs L to R - 1	112	115	44%	45%	70h	73h	
		Macro 29: Stairs L to R - 2	116	119	45%	47%	74h	77h	
		Macro 30: Stairs R to L - 1	120	123	47%	48%	78h	7Bh	
		Macro 31: Stairs R to L - 2	124	127	49%	50%	7Ch	7Fh	
		Macro 32: Invert Stairs L to R - 1	128	131	50%	51%	80h	83h	
		Macro 33: Invert Stairs L to R - 2	132	135	52%	53%	84h	87h	
		Macro 34: Invert Stairs R to L - 1	136	139	53%	55%	88h	8Bh	
Macro 35: Invert Stairs R to L - 2	140	143	55%	56%	8Ch	8Fh			
...									
	Reserved (see note 4 on page 10)		144	255	56%	100%	90h	FFh	
56	LED Animation Speed	Stop to Fast	0	255	0%	100%	00h	FFh	128
57	LED Animation Crossfade	Stop to Fast	0	255	0%	100%	00h	FFh	128

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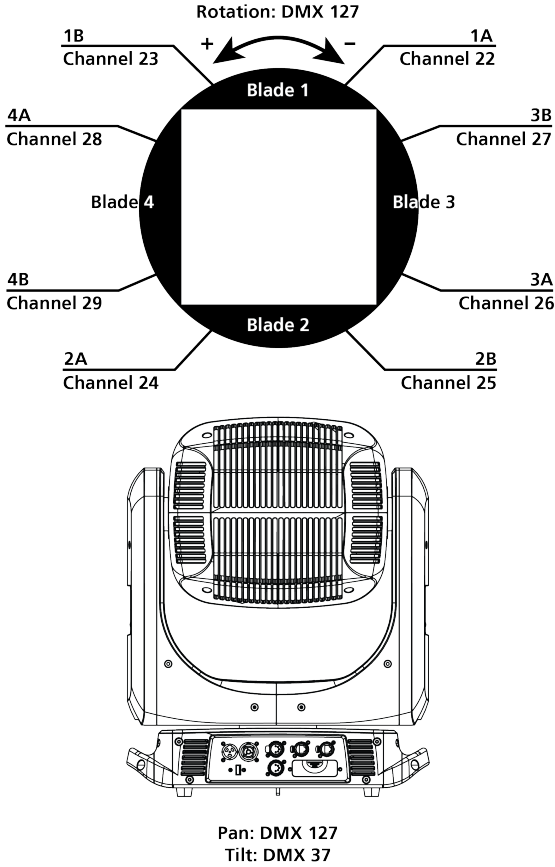
Halcyon Titanium DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Default
58	mSpeed	Disabled	0	0	0%	0%	00h	00h	0
		Longest to Shortest	1	255	0%	100%	01h	FFh	
59	Control	Idle	0	15	0%	6%	00h	0Fh	0
		Reserved (see note 4 on page 10)	16	31	6%	12%	10h	1Fh	
		Display Off	32	47	13%	18%	20h	2Fh	
		Display On	48	63	19%	25%	30h	3Fh	
		Reserved (see note 4 on page 10)	64	79	25%	31%	40h	4Fh	
		Home All	80	95	31%	37%	50h	5Fh	
		Shutdown	96	111	38%	44%	60h	6Fh	
		Disable Pan/Tilt Motors	112	127	44%	50%	70h	7Fh	
		Dimming Mode - 2.4 kHz	128	143	50%	56%	80h	8Fh	
		Dimming Mode - 16 kHz	144	159	56%	62%	90h	9Fh	
		Reserved (see note 4 on page 10)	160	167	63%	65%	A0	A7	
		Gobo Color Correction On	168	175	66%	69%	A8	AF	
		Gobo Color Correction Off	176	191	69%	75%	B0	BF	
		Reserved (see note 4 on page 10)	192	255	75%	100%	C0	FF	
60	Fan (see note 3 on page 10)	Idle	0	15	0%	6%	00h	0Fh	0
		Slow to Fast	16	207	6%	81%	10h	CFh	
		Auto	208	223	82%	87%	D0h	DFh	
		Studio	224	239	88%	94%	E0h	EFh	
		Reserved (see note 4 on page 10)	240	255	94%	100%	F0h	FFh	

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Notes

1	<p>Continuous and Indexed modes 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="225 359 836 646"> <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>35</td> </tr> <tr> <td>Blue</td> <td>72</td> </tr> <tr> <td>TM-30</td> <td>108</td> </tr> <tr> <td>Orange</td> <td>144</td> </tr> <tr> <td>Dark Blue</td> <td>181</td> </tr> <tr> <td>CTB</td> <td>218</td> </tr> </tbody> </table>	Color	Center of Color DMX Value	Open	0	Red	35	Blue	72	TM-30	108	Orange	144	Dark Blue	181	CTB	218
Color	Center of Color DMX Value																
Open	0																
Red	35																
Blue	72																
TM-30	108																
Orange	144																
Dark Blue	181																
CTB	218																
2	Synchronous random strobes are synchronized across fixtures.																
3	Upon loss of DMX, the fixture retains the fan mode setting but does not retain the linear fan speed setting. To retain the linear fan speed setting, park the DMX values to ensure the correct speed is always present when DMX is present.																
4	Reserved ranges should function according to the controller default value.																
5	<p>Framing blades are arranged according to the graphic below. For full-curtain framing, set blades 2A and 2B (channels 24 and 25) at or near 100%.</p>  <p>Pan: DMX 127 Tilt: DMX 37</p>																

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Halcyon Titanium DMX Channel Map

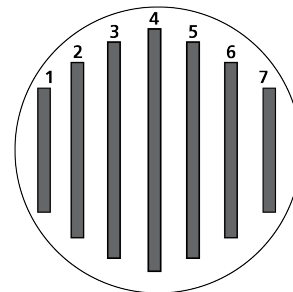
6	<p>DMX Fixture Orientation (Tilt Movement Range: 258°; Pan Movement Range: 540°) (Pan and tilt lock locations are highlighted in orange.)</p> <p>Tilt = 255 DMX Pan = 127 DMX</p> <p>Tilt = 127 DMX Pan = 127 DMX</p> <p>Tilt = 0 DMX Pan = 127 DMX</p> <p>Pan = 0 DMX Tilt = 37 DMX</p> <p>Pan = 127 DMX Tilt = 37 DMX</p> <p>Pan = 255 DMX Tilt = 37 DMX</p>
	7
8	<p>RDM Device IDs</p> <ul style="list-style-type: none"> • Halcyon Titanium Ultra-Bright: 0x2F05 • Halcyon Titanium High CRI: 0x2F06

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Halcyon Titanium LED Macros

All macros are defined from left to right assuming the fixture is sitting on a table with the pan lock facing you. LED 1 is on the left, and LED 7 is on the right.



Macro 1: L to R - 1							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	0	0	0	0	0	0
2	0	255	0	0	0	0	0
3	0	0	255	0	0	0	0
4	0	0	0	255	0	0	0
5	0	0	0	0	255	0	0
6	0	0	0	0	0	255	0
7	0	0	0	0	0	0	255

Macro 2: L to R - 2							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	255	0	0	0	0	
2	0	0	255	255	0	0	
3	0	0	0	0	255	255	

Macro 3: L to R - 3							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	255	255	0	0	0	0
2	0	255	255	255	0	0	0
3	0	0	255	255	255	0	0
4	0	0	0	255	255	255	0
5	0	0	0	0	255	255	255

Macro 4: R to L - 1							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	0	0	0	0	0	0	255
2	0	0	0	0	0	255	0
3	0	0	0	0	255	0	0
4	0	0	0	255	0	0	0
5	0	0	255	0	0	0	0
6	0	255	0	0	0	0	0
7	255	0	0	0	0	0	0

Macro 5: R to L - 2							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	0	0	0	0	255	255	
2	0	0	255	255	0	0	
3	255	255	0	0	0	0	

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Macro 6: R to L - 3							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	0	0	0	0	255	255	255
2	0	0	0	255	255	255	0
3	0	0	255	255	255	0	0
4	0	255	255	255	0	0	0
5	255	255	255	0	0	0	0

Macro 7: Scan - 1							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	0	0	0	0	0	0
2	0	255	0	0	0	0	0
3	0	0	255	0	0	0	0
4	0	0	0	255	0	0	0
5	0	0	0	0	255	0	0
6	0	0	0	0	0	255	0
7	0	0	0	0	0	0	255
8	0	0	0	0	0	255	0
9	0	0	0	0	255	0	0
10	0	0	0	255	0	0	0
11	0	0	255	0	0	0	0
12	0	255	0	0	0	0	0

Macro 8: Scan - 2							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	255	0	0	0	0	
2	0	0	255	255	0	0	
3	0	0	0	0	255	255	
4	0	0	255	255	0	0	

Macro 9: Scan - 3							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	255	255	0	0	0	0
2	0	255	255	255	0	0	0
3	0	0	255	255	255	0	0
4	0	0	0	255	255	255	0
5	0	0	0	0	255	255	255
6	0	0	0	255	255	255	0
7	0	0	255	255	255	0	0
8	0	255	255	255	0	0	0

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Macro 10: Invert L to R - 1							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	0	255	255	255	255	255	255
2	255	0	255	255	255	255	255
3	255	255	0	255	255	255	255
4	255	255	255	0	255	255	255
5	255	255	255	255	0	255	255
6	255	255	255	255	255	0	255
7	255	255	255	255	255	255	0

Macro 11: Invert L to R - 2							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	0	0	255	255	255	255	
2	255	255	0	0	255	255	
3	255	255	255	255	0	0	

Macro 12: Invert L to R - 3							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	0	0	0	255	255	255	255
2	255	0	0	0	255	255	255
3	255	255	0	0	0	255	255
4	255	255	255	0	0	0	255
5	255	255	255	255	0	0	0

Macro 13: Invert R to L - 1							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	255	255	255	255	255	0
2	255	255	255	255	255	0	255
3	255	255	255	255	0	255	255
4	255	255	255	0	255	255	255
5	255	255	0	255	255	255	255
6	255	0	255	255	255	255	255
7	0	255	255	255	255	255	255

Macro 14: Invert R to L - 2							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	255	255	255	0	0	
2	255	255	0	0	255	255	
3	0	0	255	255	255	255	

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Macro 15: Invert R to L - 3							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	255	255	255	0	0	0
2	255	255	255	0	0	0	255
3	255	255	0	0	0	255	255
4	255	0	0	0	255	255	255
5	0	0	0	255	255	255	255

Macro 16: Invert Scan - 1							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	0	255	255	255	255	255	255
2	255	0	255	255	255	255	255
3	255	255	0	255	255	255	255
4	255	255	255	0	255	255	255
5	255	255	255	255	0	255	255
6	255	255	255	255	255	0	255
7	255	255	255	255	255	255	0
8	255	255	255	255	255	0	255
9	255	255	255	255	0	255	255
10	255	255	255	0	255	255	255
11	255	255	0	255	255	255	255
12	255	0	255	255	255	255	255

Macro 17: Invert Scan - 2							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	0	0	255	255	255	255	
2	255	255	0	0	255	255	
3	255	255	255	255	0	0	
4	255	255	0	0	255	255	

Macro 18: Invert Scan - 3							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	0	0	0	255	255	255	255
2	255	0	0	0	255	255	255
3	255	255	0	0	0	255	255
4	255	255	255	0	0	0	255
5	255	255	255	255	0	0	0
6	255	255	255	0	0	0	255
7	255	255	0	0	0	255	255
8	255	0	0	0	255	255	255

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Macro 19: Out/In - 2							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	0	0	0	0	0	255
2	0	255	0	0	0	255	0
3	0	0	255	0	255	0	0
4	0	0	0	255	0	0	0

Macro 20: Out/In - 4							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	255	0	0	0	255	255
2	0	0	255	255	255	0	0

Macro 21: In/Out - 2							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	0	0	0	255	0	0	0
2	0	0	255	0	255	0	0
3	0	255	0	0	0	255	0
4	255	0	0	0	0	0	255

Macro 22: Out/In/Out - 2							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	0	0	0	0	0	255
2	0	255	0	0	0	255	0
3	0	0	255	0	255	0	0
4	0	0	0	255	0	0	0
5	0	0	255	0	255	0	0
6	0	255	0	0	0	255	0

Macro 23: Invert Out/In - 2							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	0	255	255	255	255	255	0
2	255	0	255	255	255	0	255
3	255	255	0	255	0	255	255
4	255	255	255	0	255	255	255

Macro 24: Invert In/Out - 2							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	255	255	0	255	255	255
2	255	255	0	255	0	255	255
3	255	0	255	255	255	0	255
4	0	255	255	255	255	255	0

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Macro 25: Invert Out/In/Out - 2							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	0	255	255	255	255	255	0
2	255	0	255	255	255	0	255
3	255	255	0	255	0	255	255
4	255	255	255	0	255	255	255
5	255	255	0	255	0	255	255
6	255	0	255	255	255	0	255

Macro 26: Alternate - 3							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	255	255		0	0	0
2	0	0	0		255	255	255

Macro 27: Alternate - 4							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	0	255	0	255	0	255
2	0	255	0	255	0	255	0

Macro 28: Stairs L to R - 1							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	0	0	0	0	0	0
2	0	0	255	0	0	0	0
3	0	255	0	0	0	0	0
4	0	0	0	255	0	0	0
5	0	0	255	0	0	0	0
6	0	0	0	0	255	0	0
7	0	0	0	255	0	0	0
8	0	0	0	0	0	255	0
9	0	0	0	0	255	0	0
10	0	0	0	0	0	0	255
11	0	0	0	0	0	255	0
12	255	0	0	0	0	0	0
13	0	0	0	0	0	0	255
14	0	255	0	0	0	0	0

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Macro 29: Stairs L to R - 2							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	255	0	0	0	0	0
2	0	0	255	255	0	0	0
3	0	255	255	0	0	0	0
4	0	0	0	255	255	0	0
5	0	0	255	255	0	0	0
6	0	0	0	0	255	255	0
7	0	0	0	255	255	0	0
8	0	0	0	0	0	255	255
9	0	0	0	0	255	255	0
10	255	0	0	0	0	0	255
11	0	0	0	0	0	255	255

Macro 30: Stairs R to L - 1							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	0	0	0	0	0	0	255
2	0	0	0	0	255	0	0
3	0	0	0	0	0	255	0
4	0	0	0	255	0	0	0
5	0	0	0	0	255	0	0
6	0	0	255	0	0	0	0
7	0	0	0	255	0	0	0
8	0	255	0	0	0	0	0
9	0	0	255	0	0	0	0
10	255	0	0	0	0	0	0
11	0	255	0	0	0	0	0
12	0	0	0	0	0	0	255
13	255	0	0	0	0	0	0
14	0	0	0	0	0	255	0

Macro 31: Stairs R to L - 2							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	0	0	0	0	0	255	255
2	0	0	0	255	255	0	0
3	0	0	0	0	255	255	0
4	0	0	255	255	0	0	0
5	0	0	0	255	255	0	0
6	0	255	255	0	0	0	0
7	0	0	255	255	0	0	0
8	255	255	0	0	0	0	0
9	0	255	255	0	0	0	0
10	255	0	0	0	0	0	255
11	255	255	0	0	0	0	0

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Macro 32: Invert Stairs L to R - 1							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	0	255	255	255	255	255	255
2	255	255	0	255	255	255	255
3	255	0	255	255	255	255	255
4	255	255	255	0	255	255	255
5	255	255	0	255	255	255	255
6	255	255	255	255	0	255	255
7	255	255	255	0	255	255	255
8	255	255	255	255	255	0	255
9	255	255	255	255	0	255	255
10	255	255	255	255	255	255	0
11	255	255	255	255	255	0	255
12	0	255	255	255	255	255	255
13	255	255	255	255	255	255	0
14	255	0	255	255	255	255	255

Macro 33: Invert Stairs L to R- 2							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	0	0	255	255	255	255	255
2	255	255	0	0	255	255	255
3	255	0	0	255	255	255	255
4	255	255	255	0	0	255	255
5	255	255	0	0	255	255	255
6	255	255	255	255	0	0	255
7	255	255	255	0	0	255	255
8	255	255	255	255	255	0	0
9	255	255	255	255	0	0	255
10	0	255	255	255	255	255	0
11	255	255	255	255	255	0	0

Macro 34: Invert Stairs R to L - 1							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	255	255	255	255	255	0
2	255	255	255	255	0	255	255
3	255	255	255	255	255	0	255
4	255	255	255	0	255	255	255
5	255	255	255	255	0	255	255
6	255	255	0	255	255	255	255
7	255	255	255	0	255	255	255
8	255	0	255	255	255	255	255
9	255	255	0	255	255	255	255
10	0	255	255	255	255	255	255
11	255	0	255	255	255	255	255
12	255	255	255	255	255	255	0
13	0	255	255	255	255	255	255
14	255	255	255	255	255	0	255

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Macro 35: Invert Stairs R to L- 2							
Step	LED1	LED2	LED3	LED4	LED5	LED6	LED7
1	255	255	255	255	255	0	0
2	255	255	255	0	0	255	255
3	255	255	255	255	0	0	255
4	255	255	0	0	255	255	255
5	255	255	255	0	0	255	255
6	255	0	0	255	255	255	255
7	255	255	0	0	255	255	255
8	0	0	255	255	255	255	255
9	255	0	0	255	255	255	255
10	0	255	255	255	255	255	0
11	0	0	255	255	255	255	255

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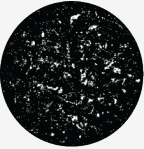
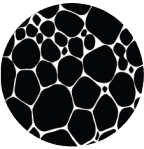





Halcyon Titanium DMX Channel Map

Halcyon Titanium Gobos

Rotating Gobo Wheel 1

Position	Name	Image
0	Open	N/A
1	Wiggle Lines	
2	Mycelium	
3	Bob's Brush	
4	The Claw	
5	Cut Cone	
6	Split-S	
7	Ice	

Rotating Gobo Wheel 2

Position	Name	Image
0	Open	N/A
1	Texture Drops	
2	Lovely Bubbly	
3	Art Ducko	
4	Window Matrix	
5	Swirly Gig	
6	Fenced In	
7	The Only Way Is Up	

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Revision History

Revision	Change	Release Date
A	Initial release.	November 2022