

ETC Reference Guide

High End Systems Talen DMX Channel Map

Talen DMX Channel Map

Channel	Function
1	Pan Coarse
2	Pan Fine
3	Pan Mode
4	Tilt Coarse
5	Tilt Fine
6	Tilt Mode
7	Red
8	Green
9	Blue
10	White
11	Dimmer
12	Shutter
13	Control



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Talen Standard Protocol

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
1/2	Pan (Coarse/Fine)	Full Path, Quick Path							32768
		0° to 539°	0	65535	0.00%	100.00%	00h	FFFFh	
		Spin							0
		Stop	0	255	0.00%	0.39%	0000h	00FFh	
		Slow to Fast	256	65535	0.39%	100.00%	0100h	FFFFh	
3	Pan Mode	Full Path (see note 1 on page 3)	0	31	0.00%	12.16%	00h	1Fh	0
		Quick Path (see note 2 on page 3)	32	63	12.55%	24.71%	20h	3Fh	
		Spin CW (see note 3 on page 3)	64	95	25.10%	37.25%	40h	5Fh	
		Spin CCW (see note 4 on page 3)	96	127	37.65%	49.80%	60h	7Fh	
		Reserved	128	255	50.20%	100.00%	80h	FFh	
4/5	Tilt (Coarse/Fine)	Full Path, Quick Path							32768
		0° to 359°	0	65535	0.00%	100.00%	00h	FFFFh	
		Spin							0
		Stop	0	255	0.00%	100.00%	0000h	00FFh	
		Slow to Fast	256	65535	0.39%	100.00%	0100h	FFFFh	
6	Tilt Mode	Full Path (see note 5 on page 3)	0	31	0.00%	12.16%	00h	1Fh	0
		Quick Path (see note 2 on page 3)	32	63	12.55%	24.71%	20h	3Fh	
		Spin CW (see note 3 on page 3)	64	95	25.10%	37.25%	40h	5Fh	
		Spin CCW (see note 4 on page 3)	96	127	37.65%	49.80%	60h	7Fh	
		Reserved	128	255	50.20%	100.00%	80h	FFh	
7	Red	Off to Full Intensity	0	255	0.00%	100.00%	00h	FFh	255
8	Green	Off to Full Intensity	0	255	0.00%	100.00%	00h	FFh	255
9	Blue	Off to Full Intensity	0	255	0.00%	100.00%	00h	FFh	255
10	White	Off to Full Intensity	0	255	0.00%	100.00%	00h	FFh	255
11	Dimmer	Off to Full Intensity	0	255	0.00%	100.00%	00h	FFh	0
12	Shutter	Off	0	15	0.00%	5.88%	00h	0Fh	255
		Strobe, Slow to Fast	16	127	6.27%	49.80%	10h	7Fh	
		Random Strobe, Slow to Fast	128	239	50.20%	93.73%	80h	EFh	
		On	240	255	94.12%	100.00%	F0h	FFh	
13	Control (see note 6 on page 3)	Idle	0	31	0.00%	12.16%	00h	1Fh	0
		Reset Fixture	32	63	12.55%	24.71%	20h	3Fh	
		Reserved	64	255	25.10%	100.00%	40h	FFh	

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Notes

1	Pan mode Full Path uses a 540° range to move between positions.
2	Quick Path takes the shortest path to the target position.
3	Continuous rotation clockwise.
4	Continuous rotation counterclockwise.
5	Tilt mode Full Path uses a 360° range to move between positions.
6	To reset the fixture: a. Set the Shutter channel to zero. b. Adjust the Control channel to Reset Fixture mode and hold value for two seconds. Fading the control channel will not cause reset.
7	RDM Manufacturer ID: 0x6574
8	RDM Device ID: 0x2F01

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Revision History

Revision	Change	Release Date
C	Removed unused options from Channel 13, Control.	April 2022
B	Corrected the RDM Manufacturer ID value. Clarified notes 1, 2, and 5. Changed the Controller Defaults values from 0 to 255 in channels 7-10.	April 2022
A	Initial release	April 2022