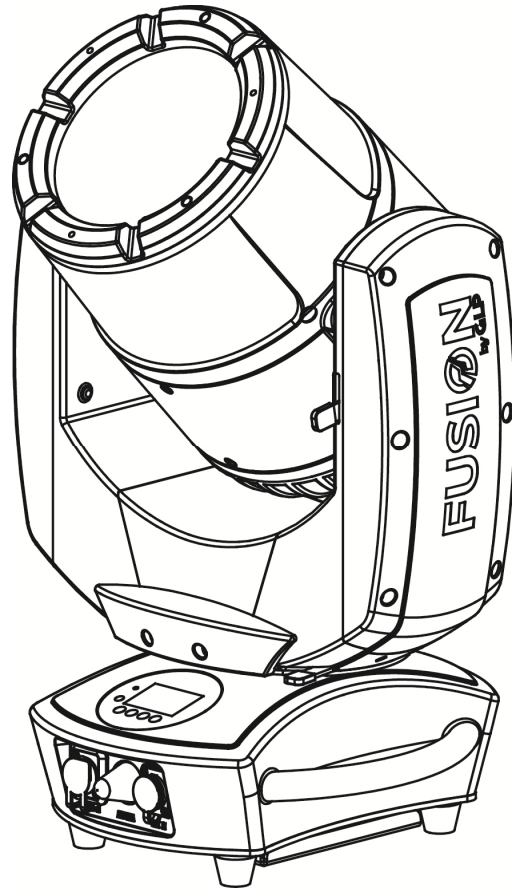


# FUSION

by GLP

## Fusion EXO Beam 10

DMX Channel Index



Software version V1.0.00



GLP® Fusion EXO Beam DMX Channel Index – Revision A

This document covers fixture software version V1.0.00

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## 1. DMX control mode overview

The EXO Beam 10 has only one DMX control mode which uses the following DMX channels

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### DMX Mode 1: Standard

The EXO Beam 10 uses 15 DMX channels.

It provides 16-bit control of pan and tilt, 16-bit dimming and a shutter with strobe and ramp up/down effects. Control of the color wheel, gobo wheel, gobo rotation and the two prisms is provided.

You also have control of focus and a control / settings channel that lets you configure the feature and adjust settings remotely via DMX.

### Mode 1 Compact

1	Pan
2	Pan fine
3	Tilt
4	Tilt fine
5	Color
6	Gobo
7	Gobo Rotation
8	Shutter
9	Dimmer
10	Dimmer fine
11	Focus
12	Focus fine
13	Prism 1
14	Prism 2
15	Control / Settings

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## 2. DMX control channel layout tables

### DMX Mode 1: Standard

#### 11 DMX Channels

Channel	Command	DMX range		Percent		Default DMX	Fade	
1	<b>Pan</b>	Pan left-right	0	65535	0	100	32767	Fade
2	<b>Pan fine</b>							
3	<b>Tilt</b>	Tilt up-down	0	65535	0	100	32767	Fade
4	<b>Tilt fine</b>							
5	<b>Color wheel</b>	Color 01 – Open	0	3	0.0	1.2	0	Snap
		Color 02 – Primary Red	4	7	1.6	2.7		Snap
		Color 03 – Blue	8	11	3.1	4.3		Snap
		Color 04 – Primary Green	12	15	4.7	5.9		Snap
		Color 05 – Amber	16	19	6.3	7.5		Snap
		Color 06 – Cyan	20	23	7.8	9.0		Snap
		Color 07 – Magenta	24	27	9.4	10.6		Snap
		Color 08 – Cool white	28	31	11.0	12.2		Snap
		Color 09 – CTO 3200K	32	35	12.5	13.7		Snap
		Color 10 – CTC 6000K	36	39	14.1	15.3		Snap
		Color 11 – Pink	40	43	15.7	16.9		Snap
		Color 12 – Fern green	44	47	17.3	18.4		Snap
		Color 13 – Yellow	48	51	18.8	20.0		Snap
		Color 14 – Orange	52	55	20.4	21.6		Snap
		Color 15 – Dark blue	56	59	22.0	23.1		Snap
		Variable position 0-360°, split colors	60	167	23.5	65.5		Fade
		Rotation clockwise fast > slow	168	211	65.9	82.7		Fade
Rotation stop	212	212	83.1	83.1	Fade			
Rotation counterclockwise slow > fast	213	255	83.5	100	Fade			
6	<b>Gobo wheel</b>	Open	0	2	0.0	0.8	0	Snap
		Gobo 1 indexed	3	5	1.2	2.0		Snap
		Gobo 2	6	8	2.4	3.1		Snap
		Gobo 3 indexed	9	11	3.5	4.3		Snap
		Gobo 4	12	14	4.7	5.5		Snap
		Gobo 5 indexed	15	17	5.9	6.7		Snap
		Gobo 6	18	20	7.1	7.8		Snap
		Gobo 7 indexed	21	23	8.2	9.0		Snap
		Gobo 8	24	26	9.4	10.2		Snap
		Gobo 9 indexed	27	29	10.6	11.4		Snap
		Gobo 10	30	32	11.8	12.5		Snap
		Gobo 11 indexed	33	35	12.9	13.7		Snap
		Gobo 12	36	38	14.1	14.9		Snap
		Gobo 13 indexed	39	41	15.3	16.1		Snap
		Gobo 14	42	44	16.5	17.3		Snap
		Gobo 1 rotate	45	47	17.6	18.4		Snap
		Gobo 3 rotate	48	50	18.8	19.6		Snap
		Gobo 5 rotate	51	53	20.0	20.8		Snap
		Gobo 7 rotate	54	56	21.2	22.0		Snap
		Gobo 9 rotate	57	59	22.4	23.1		Snap
		Gobo 11 rotate	60	62	23.5	24.3		Snap
		Gobo 13 rotate	63	65	24.7	25.5		Snap
		Gobo 1 shake and index	66	72	25.9	28.2		Snap
		Gobo 2 shake	73	79	28.6	31.0		Snap
		Gobo 3 shake and index	80	86	31.4	33.7		Snap
		Gobo 4 shake	87	93	34.1	36.5		Snap

		Gobo 5 shake and index	94	100	36.9	39.2		Snap
		Gobo 6 shake	101	107	39.6	42.0		Snap
		Gobo 7 shake and index	108	114	42.4	44.7		Snap
		Gobo 8 shake	115	121	45.1	47.5		Snap
		Gobo 9 shake and index	122	128	47.8	50.2		Snap
		Gobo 10 shake	129	135	50.6	52.9		Snap
		Gobo 11 shake and index	136	142	53.3	55.7		Snap
		Gobo 12 shake	143	149	56.1	58.4		Snap
		Gobo 13 shake and index	150	156	58.8	61.2		Snap
		Gobo 14 shake	157	163	61.6	63.9		Snap
		Gobo 1 shake and rotate	164	170	64.3	66.7		Snap
		Gobo 3 shake and rotate	171	177	67.1	69.4		Snap
		Gobo 5 shake and rotate	178	184	69.8	72.2		Snap
		Gobo 7 shake and rotate	185	191	72.5	74.9		Snap
		Gobo 9 shake and rotate	192	198	75.3	77.6		Snap
		Gobo 11 shake and rotate	199	205	78.0	80.4		Snap
		Gobo 13 shake and rotate	206	211	80.8	82.7		Snap
		Gobo 13 shake and rotate	164	170	64.3	66.7		Snap
		Gobo wheel spin stop	212	212	83.1	83.1		Snap
		Gobo wheel spin clockwise fast > slow	213	233	83.5	91.4		Fade
		Gobo wheel spin stop	234	234	91.8	91.8		Snap
		Gobo wheel spin counterclockwise slow > fast	235	255	92.2	100		Fade
		<i>when ch. 6 = "indexed"</i>					0	Fade
		Gobo index 0-360°	0	255	0	100		
		<i>when ch. 6 = "rotate"</i>						
		Gobo rotation stop	0	0	0	0		
		Gobo rotation clockwise fast > slow	1	127	0.4	49.8		
		Gobo rotation stop	128	128	50.2	50.2	0	Fade
		Gobo rotation counterclockwise slow > fast	129	255	50.6	100		
		Shutter closed	0	4	0	1.6		
		Single flash when change on dimmer channel	5	9	2.0	3.5		
		Sync ramp up slow-fast	10	39	3.9	15.3		
		Sync ramp down slow-fast	40	69	15.7	27.1		
		Sync ramp up-down slow-fast	70	99	27.5	38.8		
		Sync double flash (slow-fast)	100	129	39.2	50.6	0	Snap
		Random strobe pixel (slow-fast)	130	159	51.0	62.4		
		Random strobe all (slow-fast)	160	199	62.7	78.0		
		Sync strobe (1 Hz-10 Hz)	200	250	78.4	98.0		
		Shutter open	251	255	98.4	100		
9	<b>Dimmer</b>							
10	<b>Dimmer fine</b>	Intensity 0-100%	0	65535	0	100	0	Fade
11	<b>Focus</b>							
12	<b>Focus fine</b>	Focus near to focus far	0	65535	0	100	32767	Fade
		No prism	0	3	0	1.2		
		Variable position from 0-360°	4	127	1.6	49.8		
		Rotation stop	128	128	50.2	50.2		
		Rotation clockwise fast > slow	129	191	50.6	74.9		
		Rotation stop	192	192	75.3	75.3	0	Fade
		Rotation counterclockwise slow > fast	193	255	75.7	100		

14	Prism 2	No prism	0	3	0	1.2		Fade
		Variable position from 0-360°	4	127	1.6	49.8		
		Rotation stop	128	128	50.2	50.2		
		Rotation clockwise fast > slow	129	191	50.6	74.9		
		Rotation stop	192	192	75.3	75.3		
		Rotation counterclockwise slow > fast	193	255	75.7	100		
15	Control / Settings	No function	0	9	0.0	3.5	0	Snap
		<b>Dimmer curve: Extra-soft (3s hold)</b>	10	15	3.9	5.9		
		Dimmer curve: Linear (3s hold)	16	21	6.3	8.2		
		<b>Display mode: Auto (3s hold)</b>	22	27	8.6	10.6		
		Display mode: On (3s hold)	28	33	11.0	12.9		
		Display mode: Off (3s hold)	34	39	13.3	15.3		
		<b>Display orientation: Normal (3s hold)</b>	40	45	15.7	17.6		
		Display orientation: Inverted (3s hold)	46	51	18.0	20.0		
		No DMX: Blackout (3s hold)	52	57	20.4	22.4		
		<b>No DMX: Hold (3s hold)</b>	58	63	22.7	24.7		
		No DMX: Stand-alone (3s hold)	64	69	25.1	27.1		
		<b>Fan mode: Regulated (3s hold)</b>	70	75	27.5	29.4		
		Fan mode: High (3s hold)	76	81	29.8	31.8		
		Fan mode: Medium (3s hold)	82	87	32.2	34.1		
		Fan mode: Low (3s hold)	88	93	34.5	36.5		
		Position feedback: Off (3s hold)	94	99	36.9	38.8		
		<b>Position feedback: On (3s hold)</b>	100	105	39.2	41.2		
		No function	106	117	41.6	45.9		
		<b>Tilt inversion: Off (3s hold)</b>	118	123	46.3	48.2		
		Tilt inversion: On (3s hold)	124	129	48.6	50.6		
		<b>Pan inversion: Off (3s hold)</b>	130	135	51.0	52.9		
		Pan inversion: On (3s hold)	136	141	53.3	55.3		
		<b>Zoom inversion: Off (3s hold)</b>	142	147	55.7	57.6		
		Zoom inversion: On (3s hold)	148	153	58.0	60.0		
		<b>Defog: Off</b>	154	159	60.4	62.4		
		Defog: On	160	165	62.7	64.7		
		Defog: Quick	166	171	65.1	67.1		
		Load Settings Preset1	172	177	67.5	69.4		
		Load Settings Preset2	178	183	69.8	71.8		
		Load Settings Preset3	184	189	72.2	74.1		
		PWM 600 Hz (5s hold)	190	195	74.5	76.5		
		PWM: 2200 Hz (5s hold)	196	201	76.9	78.8		
		<b>PWM: 3000 Hz (5s hold)</b>	202	207	79.2	81.2		
PWM: 4800 Hz (5s hold)	208	213	81.6	83.5				
PWM: 9600 Hz (5s hold)	214	219	83.9	85.9				
PWM: 25 kHz (5s hold)	220	225	86.3	88.2				
No function	226	231	88.6	90.6				
Return to default settings	232	237	91.0	92.9				
Reset Pan/Tilt (3s hold)	238	243	93.3	95.3				
Reset Head (3s hold)	244	249	95.7	97.6				
Reset All (3s hold)	250	255	98.0	100				

