

LIGHT SKY®

FLY DRAGON LIGHTING EQUIPMENT CO.,LTD

BUMBLEBEE II SERIES

- F230II
- F330II



LIGHT SKY®

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LIGHT SKY®



USER MANUAL

Please read these user manual carefully before use

CHANNEL FUNCTION(V1.0)

CHANNEL table (standard 16CH)

Channe	DMX	Percentage	Function
1	Colour		
	0-4	0-1.56	White
	5-8	1.96-3.14	White+Red
	9-12	3.53-4.71	Red
	13-17	5.10-6.67	Red+Orange
	18-21	7.06-8.24	Orange
	22-25	8.63-9.80	Orange+Aquamarine
	26-29	10.2-11.4	Aquamarine
	30-34	11.8-13.3	Aquamarine+Green
	35-38	13.7-14.9	Green
	39-42	15.3-16.5	Green+Light Green
	43-46	16.9-18.0	Light Green
	47-51	18.4-20.0	Light Green+Lavender
	52-55	20.4-21.6	Lavender
	56-59	22.0-23.1	Lavender+Pink
	60-63	23.5-24.7	Pink
	64-68	25.1-26.7	Pink+Yellow
	69-72	27.0-28.2	Yellow
	73-76	28.6-29.8	Yellow+Magenta
	77-81	30.2-31.8	Magenta
	82-85	32.2-33.3	Magenta+Cyan
	86-89	33.7-34.9	Cyan
	90-93	35.3-36.5	Cyan+CT02
	94-98	36.9-38.4	CT02
	99-102	38.8-40.0	CT02+CT01
	103-106	40.4-41.6	CT01
107-110	42.0-43.1	CT01+CTB	
111-115	43.5-45.1	CTB	
116-119	45.5-46.7	CTB+Dark Blue	
120-123	47.1-48.2	Dark Blue	
124-127	48.6-49.8	Dark Blue+White	
128-191	50.2-74.9	CCW, Fast→Slow Rotation	
192-255	75.3-100	CW, Slow→Fast Rotation	
2	Strobe		
	0-3	0-1.2	Closed
	4-103	1.6-40.4	Slow-Fast Strobe
	104-107	40.8-42.0	Open
	108-157	42.4-61.6	Pulsation slow-fast, fast off, slow open
	158-207	62.0-81.2	Pulsation slow-fast, fast open, slow off
	208-212	81.6-83.1	Open
	213-251	83.5-98.4	Random Slow-Fast Strobe
	252-255	99.8-100	Open

Channe	DMX	Percentage	Function
3	0-255	0-100	Dimmer
4	GOBO		
	0-3	0-1.2	White
	4-7	1.6-2.7	Gobo1
	8-11	3.1-4.3	Gobo2
	12-15	4.7-5.9	Gobo3
	16-19	6.3-7.5	Gobo4
	20-23	7.8-9.0	Gobo5
	24-27	9.4-10.6	Gobo6
	28-31	11.0-12.2	Gobo7
	32-35	12.5-13.7	Gobo8
	36-39	14.1-15.3	Gobo9
	40-43	15.7-16.9	Gobo10
	44-47	17.3-18.4	Gobo11
	48-51	18.8-20.0	Gobo12
	52-55	20.4-21.6	Gobo13
	56-59	22.0-23.1	Gobo14
	60-73	23.5-28.6	Gobo1 Shake Slow-Fast Speed
	74-87	29.0-34.1	Gobo2 Shake Slow-Fast Speed
	88-101	34.4-39.6	Gobo3 Shake Slow-Fast Speed
	102-115	40.0-45.1	Gobo4 Shake Slow-Fast Speed
	116-129	45.5-50.6	Gobo5 Shake Slow-Fast Speed
	130-143	51.0-56.1	Gobo6 Shake Slow-Fast Speed
	144-157	56.5-61.6	Gobo7 Shake Slow-Fast Speed
	158-171	62.0-67.1	Gobo8 Shake Slow-Fast Speed
	172-185	67.5-72.6	Gobo9 Shake Slow-Fast Speed
	186-199	72.9-78.0	Gobo10 Shake Slow-Fast Speed
200-213	78.4-83.5	Gobo11 Shake Slow-Fast Speed	
214-227	83.9-89.0	Gobo12 Shake Slow-Fast Speed	
228-241	89.4-94.5	Gobo13 Shake Slow-Fast Speed	
242-255	94.9-100	Gobo14 Shake Slow-Fast Speed	
5	Prism		
	0-63	0-24.7	Unused Range
	64-127	25-49.8	Prism1
	128-191	50.2-74.9	Prism2
	192-255	75.3-100	Prism1+Prism2
6	Prism Rotation		
	0	0	Unused Range
	1-63	0.4-24.7	0-180° rotation
	64-127	25.1-49.8	CCW, Fast → Slow
	128-191	50.2-74.9	CW, Slow → Fast

Channe	DMX	Percentage	Function
6	192-207	75.3-81.2	Slow → Fast Rotation, 90 degrees back and forth
	208-223	81.6-87.5	Slow → Fast Rotation, 180 degrees back and forth
	224-239	87.8-93.7	Slow → Fast Rotation, 270 degrees back and forth
	240-255	94.1-100	Slow → Fast Rotation, 360 degrees back and forth
7	Prism Macro		
	0-15	0-5.9	Unused Range
	16-55	6.3-21.6	From fast to slow, 8 prism free switch
	56-95	22.0-37.3	From fast to slow, 16 prism free switch
	96-135	37.6-52.9	From fast to slow, 8 prism+16 prism at the same time free switch
	136-175	53.3-68.6	8 prism + 16 prism to free switch from fast to slow
	176-215	69.0-84.3	16 prism + 8 prism to free switch from fast to slow
216-255	84.7-100	From fast to slow, 8 prism and the 16 prism interlock switch	
8	0-255	0-100	Frost
9	0-255	0-100	Focus
10	0-255	0-100	Pan
11	0-255	0-100	Pan Fine
12	0-255	0-100	TILT
13	0-255	0-100	TILT Fine
14	0-255	0-100	Unused Range
15	Reset		
	0-25	0-9.8	Unused Range
	26-76	10.2-29.8	Effect Reset
	77-127	30.2-49.8	PAN/TITL Reset
128-255	50.2-100	Complete Reset	
16	Lamp control		
	0-25	0-9.8	Unused Range
	26-100	10.2-39.2	Lamp OFF
	101-255	39.6-100	Lamp ON

CHANNEL table (steamline 14CH)

Channe	DMX	Percentage	Function
1	Colour		
	0-4	0-1.56	White
	5-8	1.96-3.14	White+Red
	9-12	3.53-4.71	Red
	13-17	5.10-6.67	Red+Orange
	18-21	7.06-8.24	Orange
	22-25	8.63-9.80	Orange+Aquamarine
	26-29	10.2-11.4	Aquamarine
	30-34	11.8-13.3	Aquamarine+Green
	35-38	13.7-14.9	Green
	39-42	15.3-16.5	Green+Light Green
	43-46	16.9-18.0	Light Green
	47-51	18.4-20.0	Light Green+Lavender
	52-55	20.4-21.6	Lavender
	56-59	22.0-23.1	Lavender+Pink
	60-63	23.5-24.7	Pink
	64-68	25.1-26.7	Pink+Yellow
	69-72	27.0-28.2	Yellow
	73-76	28.6-29.8	Yellow+Magenta
	77-81	30.2-31.8	Magenta
	82-85	32.2-33.3	Magenta+Cyan
	86-89	33.7-34.9	Cyan
	90-93	35.3-36.5	Cyan+CT02
	94-98	36.9-38.4	CT02
	99-102	38.8-40.0	CT02+CT01
103-106	40.4-41.6	CT01	
107-110	42.0-43.1	CT01+CTB	
111-115	43.5-45.1	CTB	
116-119	45.5-46.7	CTB+Dark Blue	
120-123	47.1-48.2	Dark Blue	
124-127	48.6-49.8	Dark Blue+White	
128-191	50.2-74.9	CCW, Fast→Slow Rotation	
192-255	75.3-100	CW, Slow→Fast Rotation	
2	Strobe		
	0-3	0-1.2	Closed
	4-103	1.6-40.4	Slow-Fast Strobe
	104-107	40.8-42.0	Open
	108-157	42.4-61.6	Pulsation slow-fast, fast off, slow open
	158-207	62.0-81.2	Pulsation slow-fast, fast open, slow off
	208-212	81.6-83.1	Open
	213-251	83.5-98.4	Random Slow-Fast Strobe
	252-255	99.8-100	Open

Channe	DMX	Percentage	Function
3	0-255	0-100	Dimmer
4	GOBO		
	0-3	0-1.2	White
	4-7	1.6-2.7	Gobo1
	8-11	3.1-4.3	Gobo2
	12-15	4.7-5.9	Gobo3
	16-19	6.3-7.5	Gobo4
	20-23	7.8-9.0	Gobo5
	24-27	9.4-10.6	Gobo6
	28-31	11.0-12.2	Gobo7
	32-35	12.5-13.7	Gobo8
	36-39	14.1-15.3	Gobo9
	40-43	15.7-16.9	Gobo10
	44-47	17.3-18.4	Gobo11
	48-51	18.8-20.0	Gobo12
	52-55	20.4-21.6	Gobo13
	56-59	22.0-23.1	Gobo14
	60-73	23.5-28.6	Gobo1 Shake Slow-Fast Speed
	74-87	29.0-34.1	Gobo2 Shake Slow-Fast Speed
	88-101	34.4-39.6	Gobo3 Shake Slow-Fast Speed
	102-115	40.0-45.1	Gobo4 Shake Slow-Fast Speed
	116-129	45.5-50.6	Gobo5 Shake Slow-Fast Speed
	130-143	51.0-56.1	Gobo6 Shake Slow-Fast Speed
	144-157	56.5-61.6	Gobo7 Shake Slow-Fast Speed
	158-171	62.0-67.1	Gobo8 Shake Slow-Fast Speed
	172-185	67.5-72.6	Gobo9 Shake Slow-Fast Speed
	186-199	72.9-78.0	Gobo10 Shake Slow-Fast Speed
200-213	78.4-83.5	Gobo11 Shake Slow-Fast Speed	
214-227	83.9-89.0	Gobo12 Shake Slow-Fast Speed	
228-241	89.4-94.5	Gobo13 Shake Slow-Fast Speed	
242-255	94.9-100	Gobo14 Shake Slow-Fast Speed	
5	Prism		
	0-63	0-24.7	Unused Range
	64-127	25-49.8	Prism1
	128-191	50.2-74.9	Prism2
	192-255	75.3-100	Prism1+Prism2
6	Prism Rotation		
	0	0	Unused Range
	1-63	0.4-24.7	0-180° rotation
	64-127	25.1-49.8	CCW, Fast → Slow
	128-191	50.2-74.9	CW, Slow → Fast

Channe	DMX	Percentage	Function
6	192-207	75.3-81.2	Slow → Fast Rotation, 90 degrees back and forth
	208-223	81.6-87.5	Slow → Fast Rotation, 180 degrees back and forth
	224-239	87.8-93.7	Slow → Fast Rotation, 270 degrees back and forth
	240-255	94.1-100	Slow → Fast Rotation, 360 degrees back and forth
7	Prism Macro		
	0-15	0-5.9	Unused Range
	16-55	6.3-21.6	From fast to slow, 8 prism free switch
	56-95	22.0-37.3	From fast to slow, 16 prism free switch
	96-135	37.6-52.9	From fast to slow, 8 prism+16 prism at the same time free switch
	136-175	53.3-68.6	8 prism + 16 prism to free switch from fast to slow
	176-215	69.0-84.3	16 prism + 8 prism to free switch from fast to slow
216-255	84.7-100	From fast to slow, 8 prism and the 16 prism interlock switch	
8	0-255	0-100	Frost
9	0-255	0-100	Focus
10	0-255	0-100	Pan
11	0-255	0-100	Pan Fine
12	0-255	0-100	TILT
13	0-255	0-100	TILT Fine
14	Function		
	0-25	0-9.8	Unused Range
	26-30	10.2-11.8	Effect Reset
	31-35	12.2-13.7	PAN/TITL Reset
	36-40	14.1-15.7	Complete Reset
	41-180	16.1-70.6	Unused Range
	181-200	71.0-78.4	Lamp OFF
	201-220	78.8-86.3	Unused Range
221-255	86.7-100	Lamp ON	

Channel table (16CH PLUS)

Channe	DMX	Percentage	Function
1	Colour		
	0-4	0-1.56	White
	5-8	1.96-3.14	White+Red
	9-12	3.53-4.71	Red
	13-17	5.10-6.67	Red+Orange
	18-21	7.06-8.24	Orange
	22-25	8.63-9.80	Orange+Aquamarine
	26-29	10.2-11.4	Aquamarine
	30-34	11.8-13.3	Aquamarine+Green
	35-38	13.7-14.9	Green
	39-42	15.3-16.5	Green+Light Green
	43-46	16.9-18.0	Light Green
	47-51	18.4-20.0	Light Green+Lavender
	52-55	20.4-21.6	Lavender
	56-59	22.0-23.1	Lavender+Pink
	60-63	23.5-24.7	Pink
	64-68	25.1-26.7	Pink+Yellow
	69-72	27.0-28.2	Yellow
	73-76	28.6-29.8	Yellow+Magenta
	77-81	30.2-31.8	Magenta
	82-85	32.2-33.3	Magenta+Cyan
	86-89	33.7-34.9	Cyan
	90-93	35.3-36.5	Cyan+CT02
	94-98	36.9-38.4	CT02
	99-102	38.8-40.0	CT02+CT01
	103-106	40.4-41.6	CT01
107-110	42.0-43.1	CT01+CTB	
111-115	43.5-45.1	CTB	
116-119	45.5-46.7	CTB+Dark Blue	
120-123	47.1-48.2	Dark Blue	
124-127	48.6-49.8	Dark Blue+White	
128-191	50.2-74.9	CCW, Fast→Slow Rotation	
192-255	75.3-100	CW, Slow→Fast Rotation	
2	Strobe		
	0-3	0-1.2	Closed
	4-103	1.6-40.4	Slow-Fast Strobe
	104-107	40.8-42.0	Open
	108-157	42.4-61.6	Pulsation slow-fast, fast off, slow open
	158-207	62.0-81.2	Pulsation slow-fast, fast open, slow off
	208-212	81.6-83.1	Open
	213-251	83.5-98.4	Random Slow-Fast Strobe
	252-255	99.8-100	Open

Channe	DMX	Percentage	Function
3	0-255	0-100	Dimmer
4	GOBO		
	0-3	0-1.2	White
	4-7	1.6-2.7	Gobo1
	8-11	3.1-4.3	Gobo2
	12-15	4.7-5.9	Gobo3
	16-19	6.3-7.5	Gobo4
	20-23	7.8-9.0	Gobo5
	24-27	9.4-10.6	Gobo6
	28-31	11.0-12.2	Gobo7
	32-35	12.5-13.7	Gobo8
	36-39	14.1-15.3	Gobo9
	40-43	15.7-16.9	Gobo10
	44-47	17.3-18.4	Gobo11
	48-51	18.8-20.0	Gobo12
	52-55	20.4-21.6	Gobo13
	56-59	22.0-23.1	Gobo14
	60-69	23.5-27.0	Gobo1 Shake Slow-Fast Speed
	70-79	27.4-31.0	Gobo2 Shake Slow-Fast Speed
	80-89	31.4-34.9	Gobo3 Shake Slow-Fast Speed
	90-99	35.3-38.9	Gobo4 Shake Slow-Fast Speed
	100-109	39.3-42.7	Gobo5 Shake Slow-Fast Speed
	110-119	43.1-46.6	Gobo6 Shake Slow-Fast Speed
	120-129	47.0-50.5	Gobo7 Shake Slow-Fast Speed
	130-139	50.9-54.5	Gobo8 Shake Slow-Fast Speed
	140-149	54.9-58.4	Gobo9 Shake Slow-Fast Speed
	150-159	58.8-62.3	Gobo10 Shake Slow-Fast Speed
	160-169	62.7-66.2	Gobo11 Shake Slow-Fast Speed
	170-179	66.7-70.2	Gobo12 Shake Slow-Fast Speed
	180-189	70.6-74.1	Gobo13 Shake Slow-Fast Speed
	190-199	74.5-78.0	Gobo14 Shake Slow-Fast Speed
200-225	78.4-88.2	Fast-Slow Rotation	
226-229	88.6-89.8	Stop	
230-255	90.2-100	Slow-Fast Rotation	
5	Prism		
	0-63	0-24.7	Unused Range
	64-127	25-49.8	Prism1
	128-191	50.2-74.9	Prism2
	192-255	75.3-100	Prism1+Prism2

Channe	DMX	Percentage	Function
6	Prism Rotation		
	0	0	Unused Range
	1-63	0.4-24.7	0-180° rotation
	64-127	25.1-49.8	CCW, Fast → Slow
	128-191	50.2-74.9	CW, Slow → Fast
	192-207	75.3-81.2	Slow → Fast Rotation, 90 degrees back and forth
	208-223	81.6-87.5	Slow → Fast Rotation, 180 degrees back and forth
	224-239	87.8-93.7	Slow → Fast Rotation, 270 degrees back and forth
	240-255	94.1-100	Slow → Fast Rotation, 360 degrees back and forth
7	Prism Macro		
	0-15	0-5.9	Unused Range
	16-55	6.3-21.6	From fast to slow, 8 prism free switch
	56-95	22.0-37.3	From fast to slow, 16 prism free switch
	96-135	37.6-52.9	From fast to slow, 8 prism+16 prism at the same time free switch
	136-175	53.3-68.6	8 prism + 16 prism to free switch from fast to slow
	176-215	69.0-84.3	16 prism + 8 prism to free switch from fast to slow
	216-255	84.7-100	From fast to slow, 8 prism and the 16 prism interlock switch
8	0-255	0-100	Frost
9	0-255	0-100	Focus
10	0-255	0-100	Pan
11	0-255	0-100	Pan Fine
12	0-255	0-100	TILT
13	0-255	0-100	TILT Fine
14	0-255	0-100	Unused Range
15	Reset		
	0-25	0-9.8	Unused Range
	26-76	10.2-29.8	Effect Reset
	77-127	30.2-49.8	PAN/TITL Reset
	128-255	50.2-100	Complete Reset
16	Lamp control		
	0-25	0-9.8	Unused Range
	26-100	10.2-39.2	Lamp OFF
	101-255	39.6-100	Lamp ON