

G-PROFILE - DMX Protocol



Protocol Rev. 1

Mode
Standard (31 Channels)

Valid From Firmware Version
1.30

Channel	Name	DMX Value	DMX Percentage	Description	Info	Default DMX Value	Fader Type		
1	Shutter	0	7	0,0%	2,7%	Closed	10 (3,9%)	Snap	
		8	15	3,1%	5,9%	Open			
		16	151	6,3%	59,2%	Strobe			Slow -> Fast
		152	175	59,6%	68,6%	Pulse - Open			Slow -> Fast
		176	199	69,0%	78,0%	Pulse - Close			Slow -> Fast
		200	244	78,4%	95,7%	Strobe - Random			Slow -> Fast
		245	255	96,1%	100,0%	Open			
2	Intensity	0	255	0,0%	100,0%	No light -> Maximum light	0 (0%)	Fade	
3	Red	0	255	0,0%	100,0%	No RED -> Maximum RED	0 (0%)	Fade	
4	Green	0	255	0,0%	100,0%	No GREEN -> Maximum GREEN	0 (0%)	Fade	
5	Blue	0	255	0,0%	100,0%	No BLUE -> Maximum BLUE	0 (0%)	Fade	
6	CTC	0	4	0,0%	1,6%	No CTC	Detailed information - see separate document Click Here	0 (0%)	Fade
		5	5	2,0%	2,0%	≈ 2000° K			
		15	15	5,9%	5,9%	≈ 2200° K (High Pressure Sodium Lamp)			
		40	40	15,7%	15,7%	≈ 2700° K (Incandescent Lamp)			
		54	54	21,2%	21,2%	≈ 3000° K (Halogen / Tungsten Lamp)			
		65	65	25,5%	25,5%	≈ 3200° K (Warm Metal Halide Lamp)			
		105	105	41,2%	41,2%	≈ 4000° K (Clear Metal Halide Lamp)			
		115	115	45,1%	45,1%	≈ 4200° K (Cool White Fluorescent Lamp)			
		177	177	69,4%	69,4%	≈ 5500° K (Daylight Metal Halide Lamp)			
		216	216	84,7%	84,7%	≈ 6300° K			
		238	238	93,3%	93,3%	≈ 8000° K			
255	255	100,0%	100,0%	≈ 10000° K					
7	Pan	0	65535	0,0%	100,0%	-270° to 270°	-270° = Front Lens @ Mains Power Input (Tilt = 0)	32767 (50%)	Fade
8									
9	Tilt	0	65535	0,0%	100,0%	-120° to 120°	-120° = Front Lens @ Base Front (Pan = 32767)	32767 (50%)	Fade
10									
11	Gobo Wheel 1	0	20	0,0%	7,8%	Open	0 (0%)	Snap	
		21	41	8,2%	16,1%	Gobo 1 - Position 1			
		42	62	16,5%	24,3%	Gobo 1 - Position 2			
		63	83	24,7%	32,5%	Gobo 1 - Position 3			
		84	104	32,9%	40,8%	Gobo 1 - Position 4			
		105	127	41,2%	49,8%	Gobo 1 - Position 5			
		128	191	50,2%	74,9%	Gobo Wheel Continuous Rotation CW			Fast -> Slow
		192	192	75,3%	75,3%	No Rotation			
193	255	75,7%	100,0%	Gobo Wheel Continuous Rotation CCW	Slow -> Fast				
12 13	Gobo Wheel 1 Indexing Rotation Shake	0	32767	0,0%	50,0%	Gobo Index	0 (0%)	Fade	
		32768	32799	50,0%	50,0%	No Effect			
		32800	46418	50,0%	70,8%	Gobo Continuous Rotation CW			Fast -> Slow
		46419	46919	70,8%	71,6%	No Rotation			
		46920	60538	71,6%	92,4%	Gobo Continuous Rotation CCW			Slow -> Fast
60539	65535	92,4%	100,0%	Gobo Shake	Slow -> Fast				

Channel	Name	DMX value	DMX Percentage	Description	Info	Default DMX value	Fader type
14	Blade 1 In	0 255	0,0% 100,0%	Blade 1 In	Out -> In	0 (0%)	Fade
15	Blade 1 Angle	0 255	0,0% 100,0%	Blade 1 Angle	-30° -> +30°	128 (50%)	Fade
16	Blade 2 In	0 255	0,0% 100,0%	Blade 2 In	Out -> In	0 (0%)	Fade
17	Blade 2 Angle	0 255	0,0% 100,0%	Blade 2 Angle	-30° -> +30°	128 (50%)	Fade
18	Blade 3 In	0 255	0,0% 100,0%	Blade 3 In	Out -> In	0 (0%)	Fade
19	Blade 3 Angle	0 255	0,0% 100,0%	Blade 3 Angle	-30° -> +30°	128 (50%)	Fade
20	Blade 4 In	0 255	0,0% 100,0%	Blade 4 In	Out -> In	0 (0%)	Fade
21	Blade 4 Angle	0 255	0,0% 100,0%	Blade 4 Angle	-30° -> +30°	128 (50%)	Fade
22	Blade Assembly Rotate	0 255	0,0% 100,0%	Blade Assembly Rotate	-45° -> +45°	128 (50%)	Fade
23 24	Effect Wheel	0 511	0,0% 0,8%	Open		0 (0%)	Fade
		512 2559	0,8% 3,9%	Inserted Not Indexed			
		2560 32767	3,9% 50,0%	Indexed			
		32768 46402	50,0% 70,8%	Continuous Rotation CW	Fast -> Slow		
		46403 46903	70,8% 71,6%	Stop			
		46904 60538	71,6% 92,4%	Continuous Rotation CCW	Slow -> Fast		
		60539 65535	92,4% 100,0%	Reserved (Calibration Position)			
25	Iris	0 200	0,0% 78,4%	Open -> Close		0 (0%)	Fade
		201 205	78,8% 80,4%	Effect - "Open Fast / Close Slow"			
		206 210	80,8% 82,4%	Effect - "Open Slow / Close Fast"			
		211 215	82,7% 84,3%	Effect - "Open / Close"			
		216 255	84,7% 100,0%	Effect - "Random Close / Open"	Slow -> Fast		
26	Prism	0 4	0,0% 1,6%	Open		0 (0%)	Fade
		5 129	2,0% 50,6%	Continuous Rotation CW	Fast -> Slow		
		130 130	51,0% 51,0%	No Rotation			
		131 255	51,4% 100,0%	Continuous Rotation CCW	Slow -> Fast		
27	Frost	0 5	0,0% 2,0%	Open		0 (0%)	Fade
		6 255	2,4% 100,0%	No Frost -> Maximum Frost			
28	Zoom	0 255	0,0% 100,0%	Wide -> Narrow		0 (0%)	Fade
29	Focus	0 255	0,0% 100,0%	Far -> Near		0 (0%)	Fade
30	Effect Channel	0 4	0,0% 1,6%	No Effect		0 (0%)	Snap
		5 15	2,0% 5,9%	Reserved (No Effect)			
		16 26	6,3% 10,2%	Reserved (No Effect)			
		27 32	10,6% 12,5%	Shutter Black = RED			
		33 38	12,9% 14,9%	Shutter Black = GREEN			
		39 44	15,3% 17,3%	Shutter Black = BLUE			
		45 50	17,6% 19,6%	Shutter Black = WHITE			
		51 56	20,0% 22,0%	Shutter Black = Magenta			
		57 62	22,4% 24,3%	Shutter Black = Yellow			
		63 68	24,7% 26,7%	Shutter Black = Cyan			
69 255	27,1% 100,0%	Reserved (No Effect)					
31	Control Channel	0 4	0,0% 1,6%	No Function		0 (0%)	Snap
		5 9	2,0% 3,5%	Full Reset	Hold 3 seconds		
		10 14	3,9% 5,5%	Pan Reset	Hold 3 seconds		
		15 19	5,9% 7,5%	Tilt Reset	Hold 3 seconds		
		20 24	7,8% 9,4%	Gobo Reset	Hold 3 seconds		
		25 29	9,8% 11,4%	Zoom Reset	Hold 3 seconds		
		30 34	11,8% 13,3%	Sleep Mode	See Note ①		
		35 39	13,7% 15,3%	Display Off	Hold 3 seconds		
		40 44	15,7% 17,3%	Display On	Hold 3 seconds		
45 255	17,6% 100,0%	Reserved (No Function)					

① All other channels must be zero and this has to be held for 30 seconds (fixture will wake up on a full reset)

G-PROFILE - DMX Protocol

Protocol Rev. 1



Mode
Extended (46 Channels)

Valid From Firmware Version
1.30

Channel	Name	DMX Value	DMX Percentage	Description	Info	Default DMX Value	Fader Type		
1	Shutter	0	7	0,0%	2,7%	Closed	10 (3,9%)	Snap	
		8	15	3,1%	5,9%	Open			
		16	151	6,3%	59,2%	Strobe			Slow -> Fast
		152	175	59,6%	68,6%	Pulse - Open			Slow -> Fast
		176	199	69,0%	78,0%	Pulse - Close			Slow -> Fast
		200	244	78,4%	95,7%	Strobe - Random			Slow -> Fast
		245	255	96,1%	100,0%	Open			
2 3	Intensity	0	65535	0,0%	100,0%	No light -> Maximum light	0 (0%)	Fade	
4 5	Red	0	65535	0,0%	100,0%	No RED -> Maximum RED	0 (0%)	Fade	
6 7	Green	0	65535	0,0%	100,0%	No GREEN -> Maximum GREEN	0 (0%)	Fade	
8 9	Blue	0	65535	0,0%	100,0%	No BLUE -> Maximum BLUE	0 (0%)	Fade	
10	CTC	0	4	0,0%	1,6%	No CTC	Detailed information - see separate document Click Here	0 (0%)	Fade
		5	5	2,0%	2,0%	≈ 2000° K			
		15	15	5,9%	5,9%	≈ 2200° K (High Pressure Sodium Lamp)			
		40	40	15,7%	15,7%	≈ 2700° K (Incandescent Lamp)			
		54	54	21,2%	21,2%	≈ 3000° K (Halogen / Tungsten Lamp)			
		65	65	25,5%	25,5%	≈ 3200° K (Warm Metal Halide Lamp)			
		105	105	41,2%	41,2%	≈ 4000° K (Clear Metal Halide Lamp)			
		115	115	45,1%	45,1%	≈ 4200° K (Cool White Fluorescent Lamp)			
		177	177	69,4%	69,4%	≈ 5500° K (Daylight Metal Halide Lamp)			
		216	216	84,7%	84,7%	≈ 6300° K			
		238	238	93,3%	93,3%	≈ 8000° K			
255	255	100,0%	100,0%	≈ 10000° K					
11 12	Pan	0	65535	0,0%	100,0%	-270° to 270°	-270° = Front Lens @ Mains Power Input (Tilt = 0)	32767 (50%)	Fade
13 14	Tilt	0	65535	0,0%	100,0%	-120° to 120°	-120° = Front Lens @ Base Front (Pan = 32767)	32767 (50%)	Fade
15	Gobo Wheel 1	0	20	0,0%	7,8%	Open	0 (0%)	Snap	
		21	41	8,2%	16,1%	Gobo 1 - Position 1			
		42	62	16,5%	24,3%	Gobo 1 - Position 2			
		63	83	24,7%	32,5%	Gobo 1 - Position 3			
		84	104	32,9%	40,8%	Gobo 1 - Position 4			
		105	127	41,2%	49,8%	Gobo 1 - Position 5			
		128	191	50,2%	74,9%	Gobo Wheel Continuous Rotation CW			Fast -> Slow
		192	192	75,3%	75,3%	No Rotation			
193	255	75,7%	100,0%	Gobo Wheel Continuous Rotation CCW	Slow -> Fast				
16 17	Gobo Wheel 1 Indexing Rotation Shake	0	32767	0,0%	50,0%	Gobo Index	0 (0%)	Fade	
		32768	32799	50,0%	50,0%	No Effect			
		32800	46418	50,0%	70,8%	Gobo Continuous Rotation CW			Fast -> Slow
		46419	46919	70,8%	71,6%	No Rotation			
		46920	60538	71,6%	92,4%	Gobo Continuous Rotation CCW			Slow -> Fast
60539	65535	92,4%	100,0%	Gobo Shake	Slow -> Fast				

Channel	Name	DMX value	DMX Percentage	Description	Info	Default DMX value	Fader type
18 19	Blade 1 In	0 65535	0,0% 100,0%	Blade 1 In	Out -> In	0 (0%)	Fade
20 21	Blade 1 Angle	0 65535	0,0% 100,0%	Blade 1 Angle	-30° -> +30°	32767 (50%)	Fade
22 23	Blade 2 In	0 65535	0,0% 100,0%	Blade 2 In	Out -> In	0 (0%)	Fade
24 25	Blade 2 Angle	0 65535	0,0% 100,0%	Blade 2 Angle	-30° -> +30°	32767 (50%)	Fade
26 27	Blade 3 In	0 65535	0,0% 100,0%	Blade 3 In	Out -> In	0 (0%)	Fade
28 29	Blade 3 Angle	0 65535	0,0% 100,0%	Blade 3 Angle	-30° -> +30°	32767 (50%)	Fade
30 31	Blade 4 In	0 65535	0,0% 100,0%	Blade 4 In	Out -> In	0 (0%)	Fade
32 33	Blade 4 Angle	0 65535	0,0% 100,0%	Blade 4 Angle	-30° -> +30°	32767 (50%)	Fade
34 35	Blade Assembly Rotate	0 65535	0,0% 100,0%	Blade Assembly Rotate	-45° -> +45°	32767 (50%)	Fade
36 37	Effect Wheel	0 511	0,0% 0,8%	Open		0 (0%)	Fade
		512 2559	0,8% 3,9%	Inserted Not Indexed			
		2560 32767	3,9% 50,0%	Indexed			
		32768 46402	50,0% 70,8%	Continuous Rotation CW	Fast -> Slow		
		46403 46903	70,8% 71,6%	Stop			
		46904 60538	71,6% 92,4%	Continuous Rotation CCW	Slow -> Fast		
		60539 65535	92,4% 100,0%	Reserved (Calibration Position)			
38	Iris	0 200	0,0% 78,4%	Open -> Close		0 (0%)	Fade
		201 205	78,8% 80,4%	Effect - "Open Fast / Close Slow"			
		206 210	80,8% 82,4%	Effect - "Open Slow / Close Fast"			
		211 215	82,7% 84,3%	Effect - "Open / Close"			
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39	Prism	0 4	0,0% 1,6%	Open		0 (0%)	Fade
		5 129	2,0% 50,6%	Continuous Rotation CW	Fast -> Slow		
		130 130	51,0% 51,0%	No Rotation			
		131 255	51,4% 100,0%	Continuous Rotation CCW	Slow -> Fast		
40	Frost	0 5	0,0% 2,0%	Open		0 (0%)	Fade
		6 255	2,4% 100,0%	No Frost -> Maximum Frost			
41 42	Zoom	0 65535	0,0% 100,0%	Wide -> Narrow		0 (0%)	Fade
43 44	Focus	0 65535	0,0% 100,0%	Far -> Near		0 (0%)	Fade
45	Effect Channel	0 4	0,0% 1,6%	No Effect		0 (0%)	Snap
		5 15	2,0% 5,9%	Reserved (No Effect)			
		16 26	6,3% 10,2%	Reserved (No Effect)			
		27 32	10,6% 12,5%	Shutter Black = RED			
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		63 68	24,7% 26,7%	Shutter Black = Cyan			
69 255	27,1% 100,0%	Reserved (No Effect)					
46	Control Channel	0 4	0,0% 1,6%	No Function		0 (0%)	Snap
		5 9	2,0% 3,5%	Full Reset	Hold 3 seconds		
		10 14	3,9% 5,5%	Pan Reset	Hold 3 seconds		
		15 19	5,9% 7,5%	Tilt Reset	Hold 3 seconds		
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		25 29	9,8% 11,4%	Zoom Reset	Hold 3 seconds		
		30 34	11,8% 13,3%	Sleep Mode	See Note ①		
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		40 44	15,7% 17,3%	Display On	Hold 3 seconds		
		45 255	17,6% 100,0%	Reserved (No Function)			

① All other channels must be zero and this has to be held for 30 seconds (fixture will wake up on a full reset)

Distributor:


www.techni-lux.com

Phone: 407-857-8770
Fax: 407-857-8771
Email: sales@techni-lux.com