

G Spot - DMX protocol

Protocol rev. 9



Mode
Standard (24 channels)

Valid from firmware version
1.00

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 (Closest to front lens)	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	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				
14	Gobo Wheel 2 (Closest to light source)	0	20	0,0%	7,8%	Open	0 (0%)	Snap	
		21	41	8,2%	16,1%	Gobo 2 - Position 1			
		42	62	16,5%	24,3%	Gobo 2 - Position 2			
		63	83	24,7%	32,5%	Gobo 2 - Position 3			
		84	104	32,9%	40,8%	Gobo 2 - Position 4			
		105	127	41,2%	49,8%	Gobo 2 - 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				

Channel	Name	DMX value	DMX Percentage	Description	Info	Default DMX value	Fader type		
15 16	Gobo Wheel 2	0	32767	0,0%	50,0%	Gobo Index		0 (0%)	Fade
		32768	32799	50,0%	50,0%	No Effect			
	Indexing Rotation Shake	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				
17	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		
18	Effect Wheel	0	4	0,0%	1,6%	Open		0 (0%)	Fade
		5	127	2,0%	49,8%	Indexed			
		128	153	50,2%	60,0%	continuous rotation CW	Fast -> Slow		
		154	179	60,4%	70,2%	continuous rotation CCW	Slow -> Fast		
		180	255	70,6%	100,0%	Reserved (Calibration position)			
19	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		
20	Frost	0	5	0,0%	2,0%	Open		0 (0%)	Fade
		6	255	2,4%	100,0%	No Frost -> Maximum Frost			
21	Zoom	0	255	0,0%	100,0%	Wide -> Narrow		0 (0%)	Fade
22	Focus	0	255	0,0%	100,0%	Far -> Near		0 (0%)	Fade
23	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)					
24	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 Spot - DMX protocol

Protocol rev. 9



Mode
Extended (30 channels)

Valid from firmware version
1.00

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	65535	0,0%	100,0%	No light -> Maximum light	0 (0%)	Fade	
3									
4	Red	0	65535	0,0%	100,0%	No RED -> Maximum RED	0 (0%)	Fade	
5									
6	Green	0	65535	0,0%	100,0%	No GREEN -> Maximum GREEN	0 (0%)	Fade	
7									
8	Blue	0	65535	0,0%	100,0%	No BLUE -> Maximum BLUE	0 (0%)	Fade	
9									
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)			
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		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	Pan	0	65535	0,0%	100,0%	-270° to 270°	-270° = Front lens @ Mains power input (Tilt = 0)	32767 (50%)	Fade
12									
13	Tilt	0	65535	0,0%	100,0%	-120° to 120°	-120° = Front lens @ Base front (Pan = 32767)	32767 (50%)	Fade
14									
15	Gobo Wheel 1 (Closest to front lens)	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			
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		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	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			
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18	Gobo Wheel 2 (Closest to light source)	0	20	0,0%	7,8%	Open	0 (0%)	Snap	
		21	41	8,2%	16,1%	Gobo 2 - Position 1			
		42	62	16,5%	24,3%	Gobo 2 - Position 2			
		63	83	24,7%	32,5%	Gobo 2 - Position 3			
		84	104	32,9%	40,8%	Gobo 2 - Position 4			
		105	127	41,2%	49,8%	Gobo 2 - 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				

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		32768	32799	50,0%	50,0%	No Effect			
	Indexing Rotation Shake	32800	46418	50,0%	70,8%	Gobo continuous rotation CW	Fast -> Slow		
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60539	65535	92,4%	100,0%	Gobo Shake	Slow -> Fast				
21	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		
22	Effect Wheel	0	4	0,0%	1,6%	Open		0 (0%)	Fade
		5	127	2,0%	49,8%	Indexed			
		128	153	50,2%	60,0%	continuous rotation CW	Fast -> Slow		
		154	179	60,4%	70,2%	continuous rotation CCW	Slow -> Fast		
		180	255	70,6%	100,0%	Calibration position			
23	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		
24	Frost	0	5	0,0%	2,0%	Open		0 (0%)	Fade
		6	255	2,4%	100,0%	No Frost -> Maximum Frost			
25 26	Zoom	0	65535	0,0%	100,0%	Wide -> Narrow		0 (0%)	Fade
27 28	Focus	0	65535	0,0%	100,0%	Far -> Near		0 (0%)	Fade
29	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			
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69	255	27,1%	100,0%	Reserved (No effect)					
30	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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		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)			

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