

# DMX PROTOCOL

Short mode	Standard mode	Extended mode	FUNCTION	DMX	DESCRIPTION
1	1	1	Strobe	000-009	Black
				011-025	Open
				026-225	Strobe speed from slow to fast
				226-255	Open
2	2	2	Dimmer	000-255	Dimming from dark to light (0-100%)
		3	Dimmer Fine	000-255	Dimmer in 16 Bit precision
3	3	4	Colour Wheel	000-020	White
				021-028	Colour 1
				029-037	Colour 2
				038-045	Colour 3
				046-054	Colour 4
				055-062	Colour 5
				063-071	Colour 6
				072-080	Colour 7
				081-088	Colour 8
				089-097	Colour 9
				098-105	Colour 10
				106-114	Colour 11
				115-123	Colour 12
				124-127	white
				128-187	Rainbow rotation speed from slow to fast
				188-195	Stop in current position
196-255	Rainbow reverse rotation speed from slow to fast				
4	4	5	Fixed Gobo Wheel	000-011	Clear
				012-023	Gobo1
				024-034	Gobo 2
				035-046	Gobo 3
				047-057	Gobo 4
				058-069	Gobo 5
				070-080	Gobo 6
				081-092	Gobo 7
				093-103	Gobo
				104-115	Gobo
				116-127	Gobo
				128-150	Rainbow rotation speed from slow to fast
				151-171	Rainbow reverse rotation speed from slow to fast
				172-183	Gobo shake 1 (From slow to fast)
				184-191	Gobo shake 2 (From slow to fast)
				192-199	Gobo shake 3 (From slow to fast)
200-207	Gobo shake 4 (From slow to fast)				
208-215	Gobo shake 5 (From slow to fast)				

				216-223	Gobo shake 6 (From slow to fast)
				224-231	Gobo shake 7 (From slow to fast)
				232-239	Gobo shake 8 (From slow to fast)
				240-247	Gobo shake 9 (From slow to fast)
				248-255	Gobo shake 10 (From slow to fast)
5	5	6	Rotating Gobo Wheel	000-016	white
				017-032	Gobo1
				033-048	Gobo 2
				049-064	Gobo 3
				065-080	Gobo 4
				081-096	Gobo 5
				097-112	Gobo 6
				113-127	Gobo7
				128-150	Rotation speed from slow to fast
				151-171	Reverse rotation speed from slow to fast
				172-183	Gobo shake 1 speed from slow to fast
				184-195	Gobo shake 2 speed from slow to fast
				196-207	Gobo shake 3 speed from slow to fast
				208-219	Gobo shake 4 speed from slow to fast
				220-231	Gobo shake 5 speed from slow to fast
232-243	Gobo shake 6 speed from slow to fast				
244-255	Gobo shake 7 speed from slow to fast				
6	6	7	Gobo rotation	000-127	0~540°index
				128-188	Rotation speed from slow to fast
				189-194	Stop rotating
				195-255	Reverse rotation speed from slow to fast
	7	8	Gobo rotation Fine	000-255	Gobo rotation in 16 Bit precision
7	8	9	Prism / Frost	000-020	Clear
				021-255	Prism
8	9	10	Prism rotation	000-009	Stop in current position
				010-127	Rotation speed from slow to fast
				128-136	Stop in current position
				137-255	Reverse rotation speed from slow to fast
9	10	11	Focus	000-255	Linearly focusing
		12	Focus Fine	000-255	Focus in 16 precision
10	11	13	Pan	000-255	Pan rotation 540°
	12	14	Pan Fine	000-255	Pan rotation in 16 precision
11	13	15	Tilt	000-255	Tilt rotation 270°
	14	16	Tilt Fine	000-255	Tilt rotation in 16 precision
	15	17	Pan & Tilt speed	000-255	Pan&Tilt speed from fast to slow
12	16	18	Control	000-048	Reserved
				049-080	Reset
				081-112	Reserved
				113-144	Lamp off ( stop in DMX value for 10 s)
				145-168	Reserved
				169-200	Lamp power reduced to 50%
				201-223	Reserved
				224-255	Lamp on (See remark below)

**Remark:**  
If you intend to turn on/off the lamp via the last channel of the controller, don't attempt to push the channel to value 224-255 immediately after turning it off, or push the slide bar to value 224-255 to wait it cooling. Under these 2 circumstances, the lamp can not be turned on. The right operation is: turn it off—cool down—push the slide bar to turn it on