5. DMX PROTOCOL

Channel 16 bit	Channel 8 bit	Value	Function	Type of control
1	1		**Pan**	
		0-255	Coarse control of the pan movement	proportional
2			**Pan fine**	
		0-255	Fine control of the pan movement	proportional
3	2		**Tilt**	
		0-255	Coarse control of the tilt movement	proportional
4			**Tilt fine**	
		0-255	Fine control of the tilt movement	proportional
5	3		**Speed of PAN/TILT movement**	
		0	Max. speed	step
		249	Min. speed	proportional
		250-255	Max. speed,black-out while PAN,TILT moving	step
6	4		**Lamp on/off,reset,fan speed control**	
		0-127	From max.speed of fan to min. speed of fan	proportional
		128-139	Lamp on,reset	step
		140-229	No function	step
		230-239	Lamp off after 3 sec	step
		240-255	No function	step
7	5		**Colours**	
		0	Open/white	proportional
		10	Turquoise	proportional
		21	Red	proportional
		32	Cyan	proportional
		42	Green	proportional
		53	Magenta	proportional
		64	Light blue	proportional
		74	Yellow	proportional
		85	Green	proportional
		96	Pink	proportional
		106	Blue	proportional
		117	Orange	proportional
		128-190	Forwards rainbow effect from fast to slow	proportional
		191-192	No rotation	step
		193-255	Backwards rainbow effect from slow to fast	proportional
8	6		**Static gobos**	
		0-63	Open	step
		64-95	Forward gobo-wheel rotation from fast to slow	proportional
		96	No rotation	step
		97-127	Backward gobo-wheel rotation from slow to fast	proportional
		128-134	Gobo 1 (multicolor dichro)	step
		135-140	Gobo 2 (dichro)	step
		141-153	Gobo 3 (dichro)	step
		154-166	Gobo 4	step
		167-179	Gobo 5	step
		180-191	Gobo 6	step
		192-204	Gobo 7	step
		205-217	Gobo 8	step
		218-230	Gobo 9	step
		231-243	Gobo 10	step
		244-255	Gobo 11	step

Channel 16 bit	Channel 8 bit	Value	Function	Type of control
9	7		**Frost,cor. filters,3-facet prism**	
		0-95	Open position (hole)	step
		96-127	Frost filter	step
		128-159	3-facet prism	step
		160-191	3200 K correction filter	step
		192-223	5600 K correction filter	step
		224-255	UV filter	step
10	8		**3-facet prism rotation control**	
		0	No rotation	step
		1-126	Forwards rotation from fast to slow	proportional
		127-128	No rotation	step
		129-255	Backwards rotation from slow to fast	proportional
11	9		**Rotating gobos,cont.rotation**	
		0-31	Open	step
		32-63	Rot. gobo 1 (dichroic)	step
		64-95	Rot. gobo 2 (glass)	step
		96-127	Rot. gobo 3 (glass)	step
		128-159	Rot. gobo 4 (glass)	step
		160-191	Rot.gobo 5 (glass)	step
		192-223	Rot.gobo 6 (glass)	step
		224-255	Rot. gobo wheel cont. rotation from slow to fast	proportional
12	10		**Rotating gobo index,rotating gobo rotation**	
		0-127	Gobo indexing	proportional
		128-191	Forwards gobo rotation from fast to slow	proportional
		192	No rotation	step
		193-255	Backwards gobo rotation from slow to fast	proportional
13	11		**Iris**	
		0	Open	step
		1-179	Max.diameter to min.diameter	proportional
		180-191	Closed	step
		192-223	Pulse closing slow to fast	proportional
		224-255	Pulse opening fast to slow	proportional
14	12		**Focus**	
		0-255	Proportional focus control	proportional
15	13		**Shutter,strobe**	
		0-31	Shutter closed	step
		32-63	No function (shutter open)	step
		64-95	Strobe-effect from slow to fast (max.10 flashes/s)	proportional
		96-127	No function (shutter open)	step
		128-159	Pulse-effect in sequences	proportional
		160-191	No function (shutter open)	step
		192-223	Random strobe-effect from slow to fast	proportional
		224-255	No function (shutter open)	step
16	14		**Dimmer intensity**	
		0-255	Gradual adjustment of the dimmer intensity from 0 to 100%	proportional