

9.DMX PROTOCOL

Mode/Channel		Value	Function
16b	8b		
1	1	0..255	Pan PAN Movement
2		0..255	Pan-fine Fine control of Pan movement
3	2	0..255	Tilt Tilt Movement
4		0..255	Tilt-fine Fine control of Tilt movement
5	3		Color wheel
		0..13	Open / white
		14..27	Red
		28..41	Blue
		42..55	Green
		56..69	Yellow
		70..83	Rosy Red
		84..97	Deep Blue
		98..111	Deep Yellow
		112..127	Orange
		128..189	Forwards rainbow effect from fast to slow
		190-193	Color rotation stop
194..255	Backwards rainbow effect from slow to fast		
5	3		Color wheel(Half color Mode)
		0..6	Open / white
		7..13	Open+Red
		14..20	Red
		21..27	Red+Blue
		28..34	Blue
		35..41	Blue+Green
		42..48	Green
		49..55	Green+Yellow
		56..62	Yellow
		63..69	Yellow + Rosy Red
		70..76	Rosy Red
		77..83	Rosy Red + Deep Blue
		84..90	Deep Blue
		91..97	Deep Blue + Deep Yellow
		98..104	Deep Yellow
		105..111	Deep Yellow + Orange
		112..118	Orange
		119..127	Orange + Open
		128..189	Forwards rainbow effect from fast to slow
190-193	Color rotation stop		
194..255	Backwards rainbow effect from slow to fast		

6	4	Gobo wheel 1	
		0..9	Open
		10..19	gobo 1
		20..29	gobo 2
		30..39	gobo 3
		40..49	gobo 4
		50..59	gobo 5
		60..69	gobo 6
		70..89	Gobo 1 shake slow to fast
		90..109	Gobo 2 shake slow to fast
		110..129	Gobo 3 shake slow to fast
		130..149	Gobo 4 shake slow to fast
		150..169	Gobo 5 shake slow to fast
		170..189	Gobo 6 shake slow to fast
		190..255	Rot. gobo wheel cont. rotation slow to fast
7	5	Gobo1 rotation	
		0..3	no function
		4..127	Forwards gobo rotation from fast to slow
		128..131	Gobo&prism rotation stop
		132..255	Backwards gobo rotation from slow to fast
8	6	Gobo wheel 2	
		0..9	Open
		10..19	gobo 1
		20..29	gobo 2
		30..39	gobo 3
		40..49	gobo 4
		50..59	gobo 5
		60..69	gobo 6
		70..79	gobo 7
		80..89	gobo 8
		90..99	gobo 9
		100..109	gobo 10
		110..119	Gobo 1 shake slow to fast
		120..129	Gobo 2 shake slow to fast
		130..139	Gobo 3 shake slow to fast
		140..149	Gobo 4 shake slow to fast
		150..159	Gobo 5 shake slow to fast
		160..169	Gobo 6 shake slow to fast
		170..179	Gobo 7 shake slow to fast
		180..189	Gobo 8 shake slow to fast
190..199	Gobo 9 shake slow to fast		
200..209	Gobo 10 shake slow to fast		
210..255	Rot. gobo wheel cont. rotation slow to fast		

9	7		Shutter
		0..31	Shutter closed
		32..63	shutter open
		64..95	Strobe effect slow to fast
		96..127	shutter open
		128..159	Pulse-effect in sequences slow to fast
		160..191	shutter open
		192..223	Random strobe effect slow to fast
		224..255	shutter open
10	8		Dimmer
		0..255	Dimmer 0%...100%
11	9		Focus
		0..255	In(near) to out(far)
12	10		Rotating prism
		0..5	Prism swing out(hole)
		6..127	Prism swing in
		128..189	Prism Forwards rotation from fast to slow
		190..193	Prism rotation stop
		194..255	Prism Backwards rotation from slow to fast
13	11		Speed pan/tilt
		0..225	max to min speed
		226..235	blackout by movement
		236..245	blackout by all wheel changing
		246..255	no function
14	12		Special function
		0..19	No function
		20..29	No function
		30..39	No function
		40..79	No function
		80..84	All Motor reset
		85..87	Scan motor reset
		88..90	Colors motor reset
		91..93	Gobo motor reset
		94..96	No function
		97..99	Other motor reset
		100..119	Internal program 1
		120..139	Internal program 2
		140..159	Internal program 3
		160..179	Internal program 4
180..199	Internal program 5		
200..219	Internal program 6		
220..239	Internal program 7		
		240..255	Internal Sound program 1