

9.DMX PROTOCOL

Mode/Channel			Value	Function
17CH	15CH	19CH		
1	1	1		Pan
			0..255	PAN Movement
2		2		Pan-fine
			0..255	Fine control of Pan movement
3	2	3		Tilt
			0..255	Tilt Movement
4		4		Tilt-fine
			0..255	Fine control of Tilt movement
5	3	5		Color wheel
			0..9	Open / white
			10..19	Color 1
			20..29	Color 2
			30..39	Color 3
			40..49	Color 4
			50..59	Color 5
			60..69	Color 6
			70..79	Color 7
			80..89	Color 8
			90..99	Color 9
			100..127	Color 10
			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	5		Color wheel (Mode 2)
			0..4	Open / white
			5..9	White + Color 1
			10..14	Color 1
			15..19	Color 1 + Color 2
			20..24	Color 2
			25..29	Color 2 + Color 3
			30..34	Color 3
			35..39	Color 3 + Color 4
			40..44	Color 4
			45..49	Color 4 + Color 5
			50..54	Color 5
			55..59	Color 5 + Color 6
			60..64	Color 6
			65..69	Color 6 + Color 7
			70..74	Color 7
			75..79	Color 7 + Color 8
			80..84	Color 8
			85..89	Color 8 + Color 9
			90..94	Color 9
			95..99	Color 9 + Color 10
			100..104	Color 10
			105..127	Color 10 + White
			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	6	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..79	gobo 7
			80..99	Gobo 1 shake slow to fast
			100..119	Gobo 2 shake slow to fast
			120..139	Gobo 3 shake slow to fast
			140..159	Gobo 4 shake slow to fast
			160..179	Gobo 5 shake slow to fast
			180..199	Gobo 6 shake slow to fast
			200..219	Gobo 7 shake slow to fast
220..255	Rot. gobo wheel cont. rotation slow to fast			
7	5	7	Gobo 1 rotation	
			0..127	Gobo indexing
			128..189	Forwards gobo rotation from fast to slow
			190..193	Gobo rotation stop
194..255	Backwards gobo rotation from slow to fast			
8	6	8	Gobo wheel 2	
			0..5	Hole with spot
			6..11	gobo 1
			12..17	gobo 2
			18..23	gobo 3
			24..29	gobo 4
			30..35	gobo 5
			36..41	gobo 6
			42..47	gobo 7
			48..53	gobo 8
			54..59	gobo 9
			60..65	gobo 10
			66..71	gobo 11
			72..77	gobo 12
			78..83	gobo 13
			84..89	gobo 14
			90..95	gobo 15
			96..103	Gobo 1 shake slow to fast
			104..111	Gobo 2 shake slow to fast
			112..119	Gobo 3 shake slow to fast
			120..127	Gobo 4 shake slow to fast
			128..135	Gobo 5 shake slow to fast
			136..143	Gobo 6 shake slow to fast
			144..151	Gobo 7 shake slow to fast
			152..159	Gobo 8 shake slow to fast
			160..167	Gobo 9 shake slow to fast
			168..175	Gobo 10 shake slow to fast
			176..183	Gobo 11 shake slow to fast
184..191	Gobo 12 shake slow to fast			
192..199	Gobo 13 shake slow to fast			
200..207	Gobo 14 shake slow to fast			
208..215	Gobo 15 shake slow to fast			
216..255	Rot. gobo wheel cont. rotation slow to fast			

9	7	9		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	10		Dimmer
			0..255	Dimmer 0%...100%
11	9	11		Focus
			0..255	h(near) to out(far)
12	10	12		Fcus Fine
				h(near) to out(far)
13	11	13		Zoom
			0..255	h(near) to out(far)
14	12	14		Rotating prism, Prism
			0..5	OFF
			6..127	ON
			128..189	Forwards rotation from fast to slow
			190..193	Prism rotation stop
194..255	Forwards rotation from fast to slow			
15	13	15		Frost
			0..199	Frost OFF
			200..255	Frost ON
16	14	16		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			
17	15	17		Special function
			0..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..108	Internal program 1
			109..117	Internal program 2
			118..126	Internal program 3
			127..135	Internal program 4
			136..144	Internal program 5
			145..153	Internal program 6
			154..162	Internal program 7
			163..171	Internal program 8
			172..180	Internal program 9
			181..189	Internal Sound program 1
			190..198	Internal Sound program 2
			199..207	Internal Sound program 3
208..216	Internal Sound program 4			
217..225	Internal Sound program 5			
226..234	Internal Sound program 6			
235..243	Internal Sound program 7			
244..252	Internal Sound program 8			
253..255	Internal Sound program 9			

Vector Mode		Value	Function
	18	0..255	Color Time
			max to min speed
	19	0..255	Gobo Time
			max to min speed

10. Maintenance and cleaning

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not build up on or within the fixture. Otherwise, the fixture's light-output will be significantly reduced. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to function reliably throughout its life. A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

DANGER !
Disconnect from the mains before starting any maintenance work

The front objective lens will require weekly cleaning as smoke-fluid tends to building up residues, reducing the light-output very quickly. The cooling-fans should be cleaned monthly.

The interior of the fixture should be cleaned at least annually using a vacuum-cleaner or an air-jet. gobo and graphic wheels and the internal lenses should be cleaned monthly. Remove dust and dirt from the fans and cooling vents using a soft brush and vacuum-cleaner.

Important! Check the air filters periodically and clean before they become clogged!

Clean two air filters placed in the fixture's covers and two in the fixture base. Use a vacuum cleaner, compressed air or you can wash them and put back dry.

After replacing the air filters, reset the elapsed time counter in the menu "Information" (Information--->Air Filters--->Elapsed Time).

Replacing the fuse. Before replacing the fuse, unplug mains lead.

- 1) Remove the fuse holder on the rear panel of the base with a fitting screwdriver from the housing (anti-clockwise).
- 2) Remove the old fuse from the fuse holder.
- 3) Install the new fuse in the fuse holder (only the same type and rating).
- 4) Replace the fuseholder in the housing and fix it.