

9. DMX-Protocol

9.1 Function of the control channels - 16 bit protocol

Channel 1 - Pan (horizontal movement)

0 - 255	Gradual head adjustment from the left to the right (128-center). The head can be turned by 530° and stopped at any position you wish.
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Channel 2 - Pan fine 16bit

0 - 255	Fine gradual head adjustment from the left to the right
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Channel 3 - Tilt (vertical movement)

0 - 255	Gradual head adjustment from the down to the up (128-center). The head can be turned by 280° and stopped at any position you wish.
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Channel 4 - Tilt fine 16bit

0 - 255	Fine gradual head adjustment from the left to the right
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Channel 5 - Speed of PAN / TILT movement

0	Max speed (tracking mode)
1	Max speed (vector mode)
249	Min. speed (vector mode)
250-255	Max. speed, black-out while PAN, TILT moving or color changes (tracking mode)

Channel 6 - Switch On / Off the lamp, reset, speed control of cooling fan

0	Max. speed of fan
127	Min. speed of fan (silent operation)
	from 0 to 127 - decreasing speed of fan
128 - 139	Switch On the lamp, reset, open position
140 - 229	No function
230 - 239	Switch Off the lamp after 3sec.
240 - 255	No function

Channel 7 - Colours

0	Open/white
10	UV filter
21	Red
32	Cyan
42	Green
53	Magenta
64	Light Blue
74	Yellow
85	Green
96	Pink
106	Blue
117	Orange
128 - 189	Forwards rainbow effect from fast to slow
190 - 193	No rotation
194 - 255	Backwards rainbow effect from slow to fast

Channel 8 - No function

Channel 9 - Effect-wheel

0 - 95	Open position (hole)
96 - 159	3 - facet rotating prism
160 - 255	Prism/Gobo macros
160 - 167	Macro 1
168 - 175	Macro 2
176 - 183	Macro 3
184 - 191	Macro 4
192 - 199	Macro 5
200 - 207	Macro 6
208 - 215	Macro 7
216 - 223	Macro 8
224 - 231	Macro 9
232 - 239	Macro 10
240 - 247	Macro 11
248 - 255	Macro 12

Channel 10 - 3 facet prism rotation control

0	No rotation
1 - 126	Forwards rotation from fast to slow
127 - 128	No rotation
129 - 255	Backwards rotation from slow to fast

Channel 11 - Rotating gobos, cont. rotation

0 - 31	Open
32 - 63	Rot. gobo 1 (multicolor dichroic)
64 - 95	Rot. gobo 2 (glass)
96 - 127	Rot. gobo 3 (metal)
128 - 159	Rot. gobo 4 (metal)
160 - 191	Rot. gobo 5 (metal)
192 - 223	Rot. gobo 6 (metal)
224 - 255	Rot. gobo wheel cont. rotation slow to fas

Channel 12 - Rotating gobo index, rotating gobo rotation

0 - 127	Gobo indexing
128 - 190	Forwards gobo rotation from fast to slow
191 - 192	No rotation
193 - 255	Backwards gobo rotation from slow to fast

Channel 13 - No function

Channel 14 - Focus

0 - 255	Continuous adjustment from far to near
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Channel 15 - Shutter, Strobe

0 - 31	Shutter closed
32 - 63	No function (Shutter open)
64 - 95	Strobe-effect from slow to fast (max. 10 flashes/second)
96 - 127	No function (Shutter open)
128 - 159	Pulse-effect in sequences
160 - 191	No function (Shutter open)
192 - 223	Random strobe-effect from slow to fast
224 - 255	No function (Shutter open)

Channel 16 - Dimmer intensity

0 - 255	Gradual adjustment of the dimmer intensity from 0 to 100 %
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9.2 Function of the control channels - 8 bit protocol

DMX Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Function	PAN	TILT	PAN/TILT SPEED	FAN ON/OFF LAMP	COLOURS	-	PRISM	PRISM ROTATION	ROTATING GOBOS	GOBO ROTATION	-	FOCUS	STROBO	DIMMER

Movitec

SL 250 - Spot

1	PAN	11	GBOB1
2	PAN FI	12	G-ROT
3	TILT	13	---
4	TILT FI	14	FOCUS
5	SPEED 1	15	SHUTTER 0
6	EXTRA	16	DIMMER 30
7	COLOR 1		
8	---		
9	PRISM		
10	D-ROT		

WL 250 - Wash

1	PAN	11	---
2	PAN FI	12	COLOR 2
3	TILT	13	PRISM
4	TILT FI	14	ZOOM
5	SPEED 1	15	SHUTTER 0
6	EXTRA	16	DIMMER 80
7	COLOR 1		
8	CYAN		
9	MAGENT		
10	YELLOW		