

## **MOVING HEAD DESIGN SPOT 250 Spotlight :**

### **DMX channel's functions and their values (16 DMX channels):**

#### **Channel 1 - PAN movement 8bit :**

#### **Channel 2 – Pan fine 16bit**

#### **Channel 3 - TILT movement 8bit :**

#### **Channel 4– Tilt fine 16bit**

#### **Channel 5 - Color Wheel :**

0-13	Open / white
14-27	Red
28-41	Blue
42-55	Green
56-69	Light Yellow
70-83	Magenta
84-97	Orange
98-111	UV filter
112-127	Pink
128-187	Forwards rainbow effect from fast to slow
188-193	No rotation
194-255	Backwards rainbow effect from slow to fast

#### **Channel 6 - Rotating gobos, cont. rotation :**

0-9	Open
10-19	Rot. gobo 1
20-29	Rot. gobo 2
30-39	Rot. gobo 3
40-49	Rot. gobo 4
50-59	Rot. gobo 5
60-69	Rot. gobo 6
70-79	Rot. 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

#### **Channel 7 - Rotating gobo index, rotating gobo rotation :**

0-127	Gobo indexing
128-187	Forwards gobo rotation from fast to slow
188-193	No rotation
194-255	Backwards gobo rotation from slow to fast

#### **Channel 8- Fixed Gobos :**

0-13	Open/hole
14-27	Gobo 1

28-41	Gobo 2
42-55	Gobo 3
56-69	Gobo 4
70-83	Gobo 5
84-97	Gobo 6
98-111	Gobo 7
112-127	Gobo 1 shake slow to fast
128-143	Gobo 2 shake slow to fast
144-159	Gobo 3 shake slow to fast
160-175	Gobo 4 shake slow to fast
176-191	Gobo 5 shake slow to fast
192-207	Gobo 6 shake slow to fast
208-223	Gobo 7 shake slow to fast
224-255	Gobo wheel rotation from slow to fast

**Channel 9- 3 facet rotating prism, Prism / Gobo macros:**

0-3	open
4-63	Forwards rotation from fast to slow
64-67	No rotation
68-127	Backwards rotation from slow to fast
128-135	Macro 1
136-143	Macro 2
144-151	Macro 3
152-159	Macro 4
160-167	Macro 5
168-175	Macro 6
176-183	Macro 7
184-191	Macro 8
192-199	Macro 9
200-207	Macro 10
208-215	Macro 11
216-223	Macro 12
224-231	Macro 13
232-239	Macro 14
240-247	Macro 15
248-255	Macro 16

**Channel 10 – Focus :**

0-255	Continuous adjustment from far to near
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**Channel 11 - Shutter, strobe:**

0-31	Shutter closed
32-63	Dimmer control (shutter open)
64-95	Strobe effect slow to fast
96-127	No function (shutter open)
128-159	Pulse-effect in sequences
160-191	No function (shutter open)
192-223	Random strobe effect slow to fast
224-255	No function (shutter open)

**Channel 12- Dimmer (intensity):**

0-14	Shutter closed
15-255	Intensity 0 to 100%

**Channel 13 – Iris:**

0-191	Max. diameter to Min.diameter
192-223	Pulse closing fast to slow

224-255 Pulse opening slow to fast

**Channel 14 –Frost:**

0-191 Frost 0~100%  
192-223 Pulse opening fast to slow  
224-255 Pulse closing slow to fast

**Channel 15 - Speed pan/tilt movement:**

0-225 max to min speed  
226-235 blackout by movement  
236-245 blackout by all wheel changing  
246-255 no function

**Channel 16– Lamp on/off, reset, internal programs:**

0-19 colour change normal  
20-39 colour change to any position  
40-59 Lamp on  
60-79 Lamp switch off  
80-84 All motor reset  
85-87 Scan motor reset  
88-90 Colors motor reset  
91-93 Gobo motor reset  
94-96 Shutter & Dimmer motor reset  
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 Auto program by music