

## **4.1 Function of the control channels - 16 bit protocol**

### **4.1.1 Channel 1 - Horizontal movement (Pan)**

Push slider up in order to move head horizontally (PAN).

Gradual head adjustment from one end of the slider to the other (0-255, 128-center). The head can be turned by 530° and stopped at any position you wish.

### **4.1.2 Channel 2 - Vertical movement (Tilt)**

Push slider up in order to move head vertically (TILT).

Gradual head adjustment from one end of the slider to the other (0-255, 128-center). The head can be turned by 280° and stopped at any position you wish.

### **4.1.3 Channel 3 - Pan fine 16 bit**

### **4.1.4 Channel 4 - Tilt fine 16 bit**

### **4.1.5 Channel 5 - Speed of PAN / TILT movement**

0 Max speed

249 Min. speed

250-255 Max. speed, blackout while PAN, TILT moving or color, rot. gobo or prism changes

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### **4.1.6 Channel 6 - Switch on / off the lamp, reset, speed control of cooling fan**

0 Open, max. speed of fan

127 Open, min. speed of fan (silent operation) from 0 to 127

- decreasing speed of fan

128 - 139 Switch on the lamp, reset, open position

140 - 239 No function

230 - 239 Switch off the lamp after 3 seconds

240 - 255 No function

### **4.1.7 Channel 7 - Colours**

Linear colour change following the movement of the slider. In this way you can stop the colour-wheel in any

position - also between two colours creating double-coloured beams.

Between 128 and 190 and between 193 and 255, the colour-wheel rotates continuously the so-called "Rainbow"

effect.

0 Open / white

10 Turquoise

21 Red

32 Cyan

42 Green

53 Magenta

64 Light Blue

74 Yellow

85 Green

96 Pink

106 Blue

117 Orange

128 - 190 Forwards rainbow effect from fast to slow

191 - 192 No rotation

193 - 255 Backwards rainbow effect from slow to fast

### **4.1.8 Channel 8 - No function**

### **4.1.9 Channel 9 - Prism-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

#### **4.1.10 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  
33

#### **4.1.11 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 fast

#### **4.1.12 Channel 12 - Rotating gobo index, rotating gobo rotation**

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

#### **4.1.13 Channel 13 - No function**

#### **4.1.14 Channel 14 - Focus**

0 - 255 Continuous adjustment from far to near

#### **4.1.15 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)

#### **4.1.16 Channel 16 - Dimmer intensity**

0 - 255 Gradual adjustment of the dimmer intensity from 0 to 100 %