

## 5. DMX PROTOCOL

| Mode 1 channel | Mode 2 channel | 8-bit channel | Value                                                                         | Function                                                                                                                                                                                                                                       | Type of control                                                                                                                                                      |
|----------------|----------------|---------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | 1              | 1             | 0-255                                                                         | <b>Pan</b><br>Pan movement by 530°                                                                                                                                                                                                             | proportional                                                                                                                                                         |
| 2              | 3              | 2             | 0-255                                                                         | <b>Tilt</b><br>Tilt movement by 280°                                                                                                                                                                                                           | proportional                                                                                                                                                         |
| 3              | 2              |               | 0-255                                                                         | <b>Pan fine</b><br>Fine control of pan movement                                                                                                                                                                                                | proportional                                                                                                                                                         |
| 4              | 4              |               | 0-255                                                                         | <b>Tilt fine</b><br>Fine control of tilt movement                                                                                                                                                                                              | proportional                                                                                                                                                         |
| 5              | 5              | 3             | 0<br>1-249<br>250-252<br><br>253-255                                          | <b>Speed of PAN/TILT movement</b><br>Max. speed (tracking mode)<br>From max. to min.speed (vector mode)<br>Max. speed,(track.mode),black-out while colour changes<br>Max.speed (vector mode) ,black out while pan/tilt moving or color changes | step<br>proportional<br>step<br><br>step                                                                                                                             |
| 6              | 6              | 4             | 0-127<br>128-139<br>140-229<br>230-239<br>240-255                             | <b>Lamp on/off,reset,fans speed control</b><br>From max.speed of fan to min. speed of fan<br>Lamp on,reset,<br>No function<br>Lamp off after 3 sec<br>No function                                                                              | proportional<br>step<br>step<br>step<br>step                                                                                                                         |
| 7              | 7              | 5             | 0<br>16<br>32<br>48<br>64<br>80<br>96<br>112<br>128-190<br>191-192<br>193-255 | <b>Colours</b><br>Open/white<br>Deep red<br>Blue<br>Green<br>Orange<br>CTF 3200 K<br>CTF 5600 K<br>UV filter<br>Forwards rainbow effect from fast to slow<br>No rotation<br>Backwards rainbow effect from slow to fast                         | proportional<br>proportional<br>proportional<br>proportional<br>proportional<br>proportional<br>proportional<br>proportional<br>proportional<br>step<br>proportional |
| 8              | 8              | 6             | 0-255                                                                         | <b>Cyan</b><br>Cyan (0-white, 255-full cyan)                                                                                                                                                                                                   | proportional                                                                                                                                                         |
| 9              | 9              | 7             | 0-255                                                                         | <b>Magenta</b><br>Magenta (0-white, 255-full magenta)                                                                                                                                                                                          | proportional                                                                                                                                                         |
| 10             | 10             | 8             | 0-255                                                                         | <b>Yellow</b><br>Yellow (0-white, 255-full yellow)                                                                                                                                                                                             | proportional                                                                                                                                                         |
| 11             | 11             | 9             | 0-255                                                                         | <b>Speed of CMY and Dimmer</b><br>From max.speed to min. speed                                                                                                                                                                                 | proportional                                                                                                                                                         |
| 12             | 12             | 10            | 0-7<br>8-15<br>16-23<br>24-31<br>32-39                                        | <b>Colours macros-CMY and colour wheel</b><br>Off<br>Macro 1<br>Macro 2<br>Macro 3<br>Macro 4                                                                                                                                                  | step<br>step<br>step<br>step<br>step                                                                                                                                 |

