## DMX CHART

| DMX channel´s functions and their values (44 DMX channels) | | | | |
|---|---|---|---|---|
| Mode/Channel | | | Value | Function |
| St | Ba | Ex | | |
| 1 | 1 | 1 | | **PAN Movement 8bit** |
| | | | 0-255 | Pan Movement |
| 2 | | 2 | | **Pan Fine 16bit** |
| | | | 0-255 | Fine control of Pan movement |
| 3 | 2 | 3 | | **TILT Movement 8bit** |
| | | | 0-255 | Tilt Movement |
| 4 | | 4 | | **Tilt Fine 16bit** |
| | | | 0-255 | Fine control of Tilt movement |
| 5 | 3 | 5 | | **Speed Pan/Tilt movement** |
| | | | 0-225 | max to min speed |
| | | | 226-235 | blackout by movement |
| | | | 226-235 | no function |
| 6 | 4 | 6 | | **Pan Motor continuous rotation** |
| | | | 0-127 | no function |
| | | | 128-189 | Forwards Pan rotation from fast to slow |
| | | | 190-193 | No rotation |
| | | | 194-255 | Backwards Pan rotation from slow to fast |
| 7 | 5 | 7 | | **Tilt Motor continuous rotation** |
| | | | 0-127 | no function |
| | | | 128-189 | Forwards Tilt rotation from fast to slow |
| | | | 190-193 | No rotation |
| | | | 194-255 | Backwards Tilt rotation from slow to fast |
| 8 | 6 | | | **Red LED - all arrays** |
| | | | 0-255 | Red ( 0-Black , 255-100% Red ) |
| 9 | 7 | | | **Green LED-all arrays :** |
| | | | 0-255 | Green ( 0-Black , 255-100% Green ) |
| 10 | 8 | | | **Blue LED -all arrays :** |
| | | | 0-255 | Blue ( 0-Black , 255-100% Blue ) |
| 11 | 9 | | | **White LED -all arrays :** |
| | | | 0-255 | White ( 0-Black , 255-100% White ) |
| | | 17 | | **Red LED -array 1 :** |
| | | | 0-255 | Red ( 0-Black , 255-100% Red ) |
| | | 18 | | **Green LED-array 1 :** |
| | | | 0-255 | Green ( 0-Black , 255-100% Green ) |
| | | 19 | | **Blue LED -array 1 :** |
| | | | 0-255 | Blue ( 0-Black , 255-100% Blue ) |
| | | 20 | | **White LED -array 1 :** |
| | | | 0-255 | White ( 0-Black , 255-100% White ) |
| | | 21 | | **Red LED -array 2 :** |
| | | | 0-255 | Red ( 0-Black , 255-100% Red ) |
| | | 22 | | **Green LED-array 2 :** |
| | | | 0-255 | Green ( 0-Black , 255-100% Green ) |
| | | 23 | | **Blue LED -array 2 :** |
| | | | 0-255 | Blue ( 0-Black , 255-100% Blue ) |
| | | 24 | | **White LED -array 2 :** |
| | | | 0-255 | White ( 0-Black , 255-100% White ) |
| | | | ... | |
| | | 41 | | **Red LED -array 7 :** |
| | | | 0-255 | Red ( 0-Black , 255-100% Red ) |
| | | 42 | | **Green LED-array 7 :** |
| | | | 0-255 | Green ( 0-Black , 255-100% Green ) |
| | | 43 | | **Blue LED -array 7 :** |
| | | | 0-255 | Blue ( 0-Black , 255-100% Blue ) |
| | | 44 | | **White LED -array 7 :** |
| | | | 0-255 | White ( 0-Black , 255-100% White ) |

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| Mode/Channel | | | Value | Function |
| St | Ba | Ex | | |
| 12 | 10 | 8 | | **Shutter, strobe:** |
| | | | 0-31 | Led turn off |
| | | | 32-63 | Led turn on |
| | | | 64-95 | Strobe effect slow to fast |
| | | | 96-127 | Led turn on |
| | | | 128-159 | Pulse-effect in sequences |
| | | | 160-191 | Led turn on |
| | | | 192-223 | Random strobe effect slow to fast |
| | | | 224-255 | Led turn on |
| 13 | 11 | 9 | | **Dimmer intensity:** |
| | | | 0-255 | Intensity 0 to 100% |
| 14 | 12 | 10 | | **Color Macro:** |
| | | | 0-7 | No function |
| | | | 8-39 | from RED to YELLOW |
| | | | 40-71 | from YELLOW to GREEN |
| | | | 72-103 | from GREEN to CYAN |
| | | | 104-135 | from CYAN to BLUE |
| | | | 136-167 | from BLUE to MAGENTA |
| | | | 168-199 | from MAGENTA to RED |
| | | | 200-231 | from RED to WHITE |
| | | | 232-255 | Crossfading colours from slow to fast |
| 15 | 13 | 11 | | **Color Presets:** |
| | | | 0-4 | No function |
| | | | 5--9 | White2700k |
| | | | 10--14 | White3200k |
| | | | 15-19 | White4200k |
| | | | 20-24 | White5600k |
| | | | 25-29 | White6500k |
| | | | 30-34 | White8000k |
| | | | 35-39 | Yellow |
| | | | 40-44 | Magenta |
| | | | 45-49 | Cyan |
| | | | 50-54 | Salmon |
| | | | 55-59 | Turquoise |
| | | | 60-64 | Light Green |
| | | | 65-69 | Steel Blue |
| | | | 70-74 | Orange |
| | | | 75-79 | Straw |
| | | | 80-84 | Pale Lavander |
| | | | 85-89 | Pink |
| | | | 90-94 | Red |
| | | | 95-99 | Green |
| | | | 100-104 | Blue |
| | | | 105-109 | Rainbow1 |
| | | | 110-114 | Rainbow2 |
| | | | 115-119 | Rainbow3 |
| | | | 120-124 | Rainbow4 |
| | | | 125-129 | Rainbow5 |
| | | | 130-134 | Rainbow6 |
| | | | 135-139 | Rainbow7 |
| | | | 140-144 | Rainbow8 |
| | | | 145-149 | Rainbow9 |
| | | | 150-154 | Rainbow10 |
| | | | 155-159 | Rainbow11 |
| | | | 160-164 | Rainbow12 |

| DMX channel´s functions and their values (44 DMX channels) | | | | |
|---|---|---|---|---|
| Mode/Channel | | | Value | Function |
| St | Ba | Ex | | |
| 15 | 13 | 11 | | **Color Presets:** |
| | | | **165-169** | Rainbow13 |
| | | | **170-174** | Rainbow14 |
| | | | **175-179** | Rainbow15 |
| | | | **180-184** | Rainbow16 |
| | | | **185-189** | Rainbow17 |
| | | | **190-194** | Rainbow18 |
| | | | **195-199** | Rainbow19 |
| | | | **200-255** | Reserved |
| 19 | 17 | 15 | | **Color Presets Dimmer:** |
| | | | **0-255** | Dimmer 100 to 0% |
| 16 | 14 | 12 | | **Chase Patterns:** |
| | | | **1--14** | Led trun off |
| | | | **15-30** | Chase 1 |
| | | | **31-46** | Chase 2 |
| | | | **47-62** | Chase 3 |
| | | | **63-78** | Chase 4 |
| | | | **79-94** | Chase 5 |
| | | | **95-110** | Chase 6 |
| | | | **111-126** | Chase 7 |
| | | | **127-142** | Chase 8 |
| | | | **143-158** | Chase 9 |
| | | | **159-174** | Chase 10 |
| | | | **175-190** | Chase 11 |
| | | | **191-206** | Chase 12 |
| | | | **207-222** | Chase 13 |
| | | | **223-238** | Chase 14 |
| | | | **239-255** | Chase 15 |
| 17 | 15 | 13 | | **Chase Speed:** |
| | | | **0-125** | Fast to Slow Backward |
| | | | **126-130** | Stop(Speed=0) |
| | | | **131-255** | Slow to Fast Forward |
| 18 | 16 | 14 | | **Chase Fade:** |
| | | | **0-255** | Fade Chase |
| 20 | 18 | 16 | | **Reset, internal programs:** |
| | | | **0-79** | Normal |
| | | | **80-84** | All motor reset |
| | | | **85-87** | Scan motor reset |
| | | | **88-90** | no function |
| | | | **91-93** | no function |
| | | | **94-96** | no function |
| | | | **97-99** | no function |
| | | | **100-119** | Internal program 1 (secne1~8 of EEPROM) |
| | | | **120-139** | Internal program 2 (secne9~16 of EEPROM) |
| | | | **140-159** | Internal program 3 (secne17~24 of EEPROM) |
| | | | **160-179** | Internal program 4 (secne25~32 of EEPROM) |
| | | | **180-199** | Internal program 5 (secne33~40 of EEPROM) |
| | | | **200-219** | Internal program 6 (secne41~48 of EEPROM) |
| | | | **220-239** | Internal program 7 (secne49~56 of EEPROM) |
| | | | **240-255** | Music Control (secne of Program 1) |

## ERROR MESSAGES

When you turn on the MAGICBLADE-R, it will first perform an automatic reset. The display may show “Err channel is XX” indicating there is a problem with one or more of the channels. “XX” represents channel 1, 2, 3, 4, 5 or 6, which contain the testing sensor for positioning. For example, the message, “Err channel is Red LED -all arrays”, indicates an error in channel 1. If there is an error on channel 1 and channel 3 at the same time, the following error message may appear: “Err channel is Pan movement”, “Err channel is Tilt movement”. The system will flash twice, and the fixture will generate a second reset. If the error message persists after more than two resets, the channels showing errors will not work properly but the other channels will function normally.

Please contact your authorized dealer or manufacturer for service and do not attempt to repair the luminaire yourself.

PAN- movement Er
(PAN-yoke movement error): This message will appear after the reset if the yoke’s magnetic-indexing circuit malfunctions (failed sensor or magnet missing) or the stepping-motor is defective (also caused by its driving IC on the main PCB). The PAN- movement does not return to the default position after the reset.

TILT- movement Er
(TILT-head movement error): This message will appear after the reset if the head’s magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (also caused by its driving IC on the main PCB). The TILT- movement does not return to the default position after the reset.

## CARE AND MAINTENANCE

The care and maintenance of your MAGICBLADE-R should be ensured by a qualified technician. Your MAGICBLADE-R requires regular servicing. The frequency depends essentially on its operating conditions and environment. Intensive use in a dusty environment, or a lack of ventilation around the fixture, may disrupt operation, result in overheating and cause damage that is not covered by the warranty.

**WARNING!**
*Disconnect from mains before servicing.*

### *UPDATING THE LUMINAIRE*

Ayrton is continually upgrading this product line. It is therefore possible that a new software version is available that will increase the unit’s capabilities.

Updates are performed using Ayrton’s update box. Contact your dealer for more information.

To display the version of your , go into the “Info” menu and select “Software version” (see options details under the “INFO” menu). It is advisable to use the same software version for multiple fixtures.