

## DeeMagix: DMX Channel Assignment



**Version 3.x**



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ISO 9001

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## Introduction

The DeeMagiX software allows controlling extraordinary laser effects using a DMX lighting console without special knowledge of laser show programming. It is like the link between laser and DMX.

DeeMagiX is part of the Lasergraph DSP *Mark 2* Production Suite and is included with every PHAENON *Stage* or BLITZ *Stage* system.

For DMX controlling of the laser projection system 26 channels can be used to select or set the following:

- Positions resp. movements of the projector head (*Stage* systems only).
- Gobos, animations, texts, beams and special effects.
- Size, position, movement, brightness and focus of the projection.
- Direction and speed of the rotation of the grating wheels.

Note:

All Gobo channels are only available with laser projectors containing a built-in grating module.

If you want to use the same Lasergraph DSP as a DMX source that runs DeeMagiX make sure to set an offset because DMX channels 1 - 11 are internally used to control the Gobowheel.



## Overview DMX Channels

### Channel 1/2 *Pan (Stage units only)*

Channel 1 and 2 control the horizontal movement of the projector head.

Channel 1 is used to set the coarse value (8Bit). The range of the movement for pan is 360°. With the default setting of 128 the head is positioned at 180°.

When working in fine mode channel 2 is added and a resolution of 16Bit is available for precise movements.

### Channel 3/4 *Tilt (Stage units only)*

Channel 3 and 4 control the vertical movement of the projector head.

Channel 3 is used to set the coarse value (8Bit). The range of the movement for tilt is 270°. With the default setting of 128 the head is positioned at 135°.

When working in fine mode channel 4 is added and a resolution of 16Bit is available for precise movements.

### Channel 5 *Wheel 1*

Channel 5 controls wheel 1 of the grating module.

The grating module contains two wheels each equipped with three glass gratings and is positioned in front of the scanners. It is therefore freely combinable with gobos, animations and texts. So you can for instance project gobos through a glass grating and create quite interesting effects.

You can choose three different gratings from wheel 1.

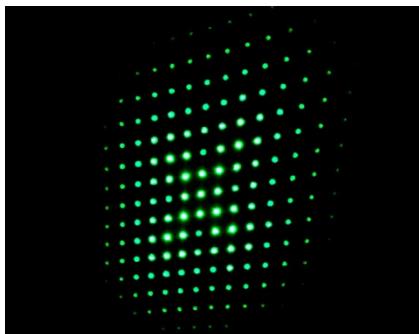
For DMX values from 64 to 159 you will find the indexed gratings.

The following DMX values from 160 to 255 will select the gratings with rotation.

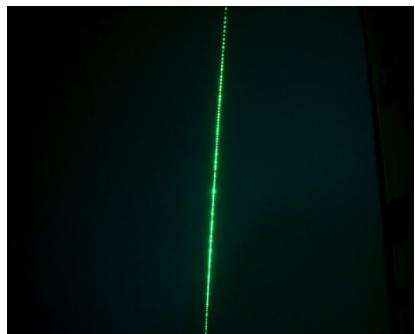
If the DMX value is set from 0 to 63 no grating is positioned in front of the scanners.



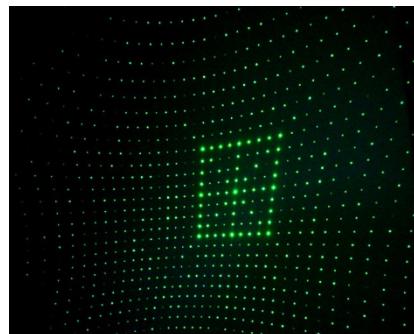
**Wheel 1 is equipped with following gratings:**



Grid WT (Cross Grid)



Machado (Narrow Line Grid)



Stargate (Cross Grid)

**DMX value:**  
**64 – 95 (indexed)**  
**160 – 191 (rotation)**

**DMX value:**  
**96 – 127 (indexed)**  
**192 – 223 (rotation)**

**DMX value:**  
**128 – 159 (indexed)**  
**224 – 255 (rotation)**

## Channel 6      *Wheel 1 Index / Rotation*

Channel 6 controls the index position resp. rotation of the wheel 1.

If channel 5 has a value from 64 to 159 channel 6 controls the index position of the selected grating.

Some values for index positions:

| DMX value of channel 6 | Index position |
|------------------------|----------------|
| 0                      | - 90°          |
| 43                     | - 60°          |
| 64                     | - 45°          |
| 85                     | - 30°          |
| 128                    | 0°             |
| 171                    | + 30°          |
| 192                    | + 45°          |
| 213                    | + 60°          |
| 255                    | + 90°          |

### Notes:

Numerous small steps may cause an increasing difference between actual and desired position.

To get a precise position it might be necessary to reset the index by either changing the grating or rotate to the 0° position (DMX value 128).

If channel 5 has a value from 160 to 255 channel 6 controls the speed of the rotation of the selected grating.



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Some values for rotation:

| <b>DMX value of channel 6</b> | <b>Speed</b> | <b>Direction</b>  |
|-------------------------------|--------------|-------------------|
| 0                             | Fast         | counter clockwise |
| 64                            | Slow         | counter clockwise |
| 128                           | Stop         | -                 |
| 192                           | Slow         | clockwise         |
| 255                           | Fast         | clockwise         |

## Channel 7      *Wheel 2*

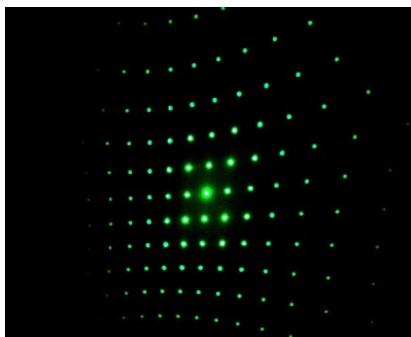
Channel 7 controls the wheel 2. You can choose also three different gratings.

For DMX values from 64 to 159 you will find the indexed gratings.

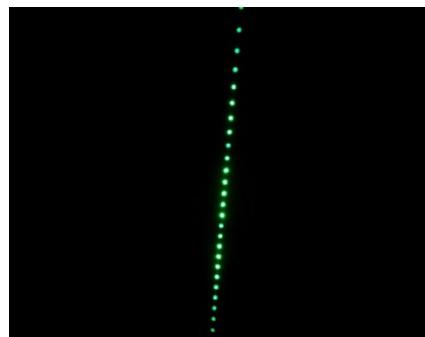
The following DMX values from 160 to 255 will select the gratings with rotation.

If the DMX value is set from 0 to 63 no grating is positioned in front of the scanners.

**Wheel 2 is equipped with following gratings:**



Grid XT (Cross Grid)



Line (Line Grid)



Lumia

**DMX value:**

**64 – 95 (indexed)**  
**160 – 191 (rotation)**

**DMX value:**

**96 – 127 (indexed)**  
**192 – 223 (rotation)**

**DMX value:**

**128 – 159 (indexed)**  
**224 – 255 (rotation)**



## Channel 8      *Wheel 2 Index / Rotation*

Channel 8 controls index position resp. rotation of the wheel 2.

If channel 7 has a value from 64 to 159 channel 8 controls the index position of the selected grating.

Some values for index positions:

| <b>DMX value of channel 8</b> | <b>Index position</b> |
|-------------------------------|-----------------------|
| 0                             | - 90°                 |
| 43                            | - 60°                 |
| 64                            | - 45°                 |
| 85                            | - 30°                 |
| 128                           | 0°                    |
| 171                           | + 30°                 |
| 192                           | + 45°                 |
| 213                           | + 60°                 |
| 255                           | + 90°                 |

Note:

Numerous small steps may cause an increasing difference between actual and desired position.

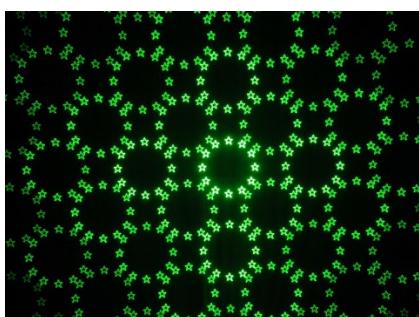
To get a precise position it might be necessary to reset the index by either changing the grating or rotate to the 0° position (DMX value 128).

If channel 7 has a value from 160 to 255 channel 8 controls the speed of the rotation of the selected grating.

Some values for rotation:

| <b>DMX value of channel 8</b> | <b>Speed</b> | <b>Direction</b>  |
|-------------------------------|--------------|-------------------|
| 0                             | Fast         | counter clockwise |
| 64                            | Slow         | counter clockwise |
| 128                           | Stop         | -                 |
| 192                           | Slow         | clockwise         |
| 255                           | Fast         | clockwise         |

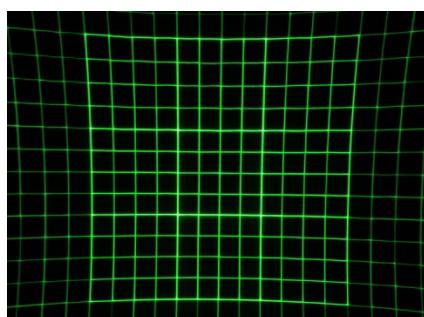
**Example of combinations of gratings with different gobos:**



Grid XT & Gobo 142



Line & Grid WT & Gobo 174



Stargate & Gobo 056



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## **Channel 9      *Focus (for laser systems with focus control only)***

Channel 9 controls the beam focus with laser projectors containing a motorized focus -included with BLITZ Stage units. This parameter is used to influence the divergence of the laser beam. You can make the complete output look continuously more and more diffuse between the values 0 and 255. This can be very effective e.g. when a logo or a graphic (even projected through a prism) is to get slowly clearer from a diffuse blur!

This feature is also very useful for a safer laser beam. The laser becomes safer after expanding the beam. For details have a look at your local laser safety regulations or ask your laser safety officer.

## **Channel 10      *Dimmer***

Channel 13 controls the output power.

The default setting, the DMX value 185, means 100% output power. By reducing this value you can dim the brightness continuously.

The DMX values from 186 to 255 continuously "bleach" out the colors until the projection is white (full color laser projectors only).

## **Channel 11      *Strobe***

With this parameter you can apply a strobe effect to the scanner output.

The default setting is 0, i.e. the picture is displayed permanently.

An increase in the value turns the picture on and off. The higher the value is set the faster the strobe effect gets.



## Channel 12      *Object Bank*

Channels 12 and 13 select the output. Channel 13 depends on channel 12. Channel 14 adds an effect depending on the selected object bank. Channel 15 controls the speed of the selected effect.

| <b>DMX value</b> | <b>Bank</b>  | <b>Categories by default</b> |
|------------------|--------------|------------------------------|
| 0 – 7            | Gobos        | beam show elements           |
| 8 – 15           | Gobos        | beam show elements           |
| 16 – 23          | Gobos        | ornaments                    |
| 24 – 31          | Gobos        | templates                    |
| 32 – 39          | Gobos        | arrows, x-mas, music         |
| 40 – 47          | Gobos        | humans, buildings            |
| 48 – 55          | Gobos        | vehicles, nature             |
| 56 – 63          | Gobos        | misc., 3d objects            |
| 128 – 135        | Animations   | -                            |
| 192 – 199        | Texts        | -                            |
| 216 – 223        | Specials     | -                            |
| 232 – 239        | Beams        | single beams, pattern        |
| 248 – 255        | Test Picture | -                            |

## Channel 13      *Object Slot*

Within this channel a gobo, an animation, a text, a beam or a special output will be selected. It depends on channel 12 (see table above). The channel is divided into 32 sections, where each 8<sup>th</sup> section represents a new slot. You can compare it to a gobo wheel with 32 gobo slots in a moving light.

## Channel 14      *Effect*

The function of this channel depends on channel 12 too.

There are different types of effects, e.g. rotation effects or moving effects. You can compare this channel to the effect engine in your lighting console, but with a higher resolution than 16Bit on two channels.

## Channel 15      *Speed, Direction*

Channel 15 controls the movement speed and the direction of the effects. The default setting is DMX value 192 which results in a medium speed in forward turning direction. When you increase the value the movement speed increases, when you reduce the value it gets slower until it stops at the DMX value 128.

With values from 128 - 0 you reverse the direction of the movement and increase the speed continuously up to the DMX value 0.



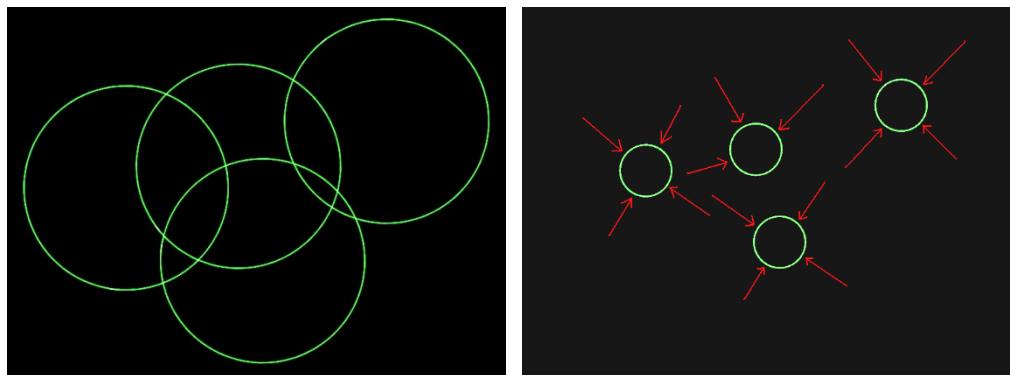
This channel will also control the speed of an animation or text. If e.g. the text bank is selected and this channel is set to value 128, the output may be black. The reason is that the texts move sideways into the screen and are no more visible.

## Channel 16     *Object Size*

This channel increases or decreases the size of the selected gobos/animations/characters. With the default setting 255 the object has its maximum size, with 0 the object size is at its minimum.

For safety reasons it is not possible to reduce the size to one single point.

This channel only influences the size of the object, the movement radius is not changed.



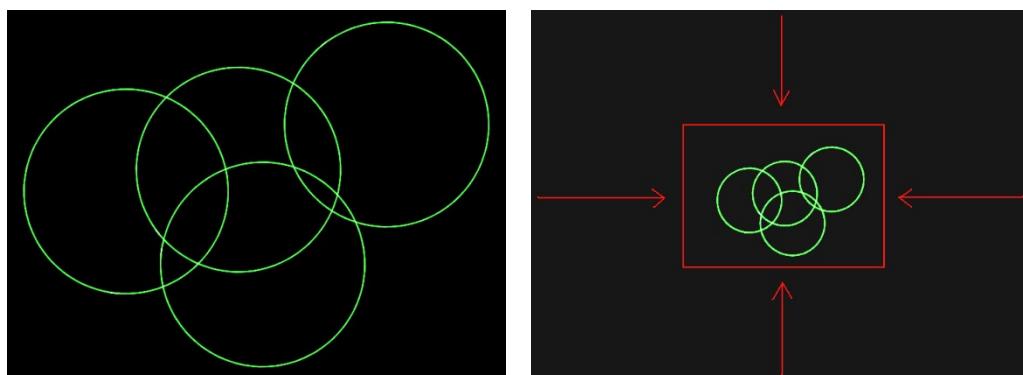
## Channel 17     *Zoom*

This channel increases or decreases the size of the whole projection.

Movement radius and object size are influenced by the same ratio.

With the default setting 255 the maximum projection size is reached.

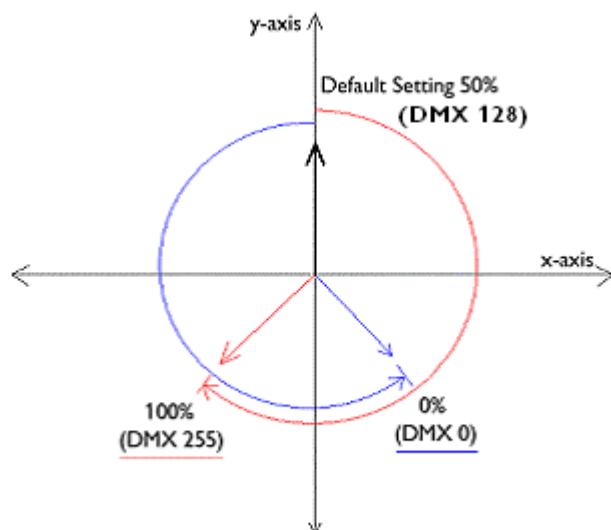
From 255 to the DMX value 0 you can continuously reduce the size of the projection.



## Channel 18 Index

With this channel you can rotate the object around the z-axis.  
The default setting is 128, which shows the object in its original position.

Reducing the value from 128 to 0 rotates the object counterclockwise by 240°.  
Increasing the value from 128 to 255 rotates the object clockwise by 240°.

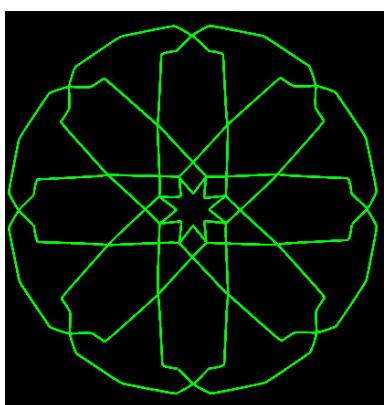


## Channel 19 Mask

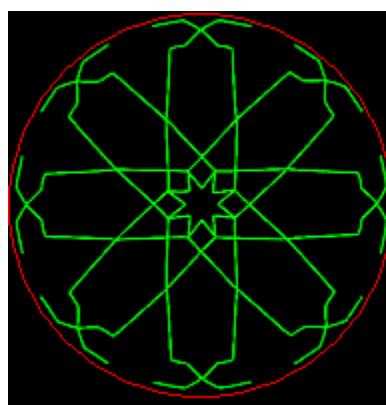
With this channel you can limit the laser output horizontally as well as vertically in different ways.  
All objects located outside this virtual limiting line will be "cut off", they are no longer visible.

The default setting is 0, the output is completely visible.

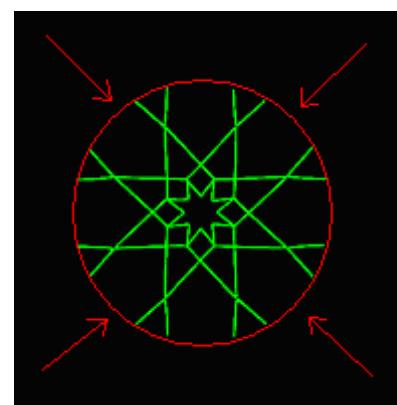
With DMX values between 0 and 63 the output is limited circularly, like an iris in a moving light,  
until it completely disappears at value 63.



DMX Value 0

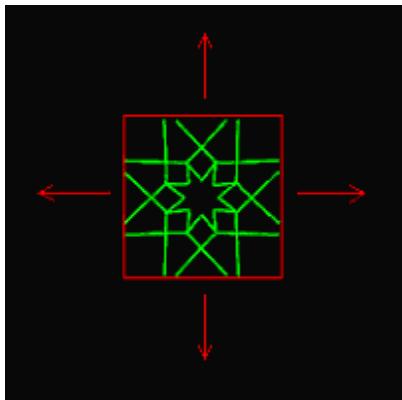


DMX Value between 0 and 63

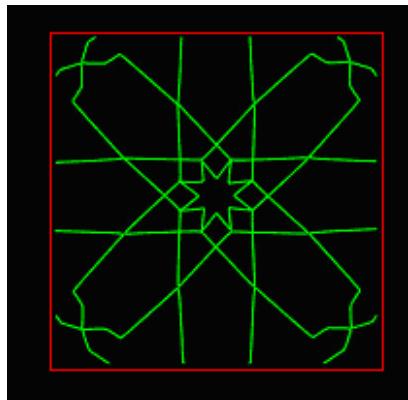


DMX Value between 0 and 63

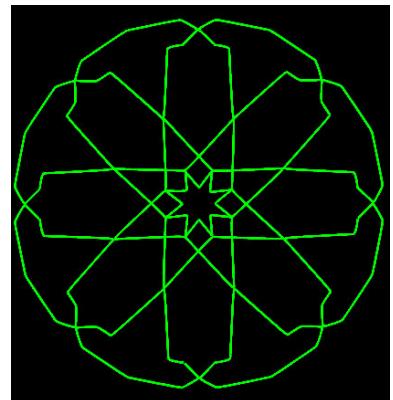
The DMX values 64 -127 result in a square-shaped clipping.



DMX Value 64 – 127



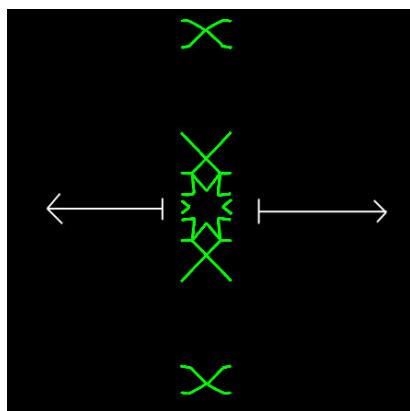
DMX Value between 64 and 127



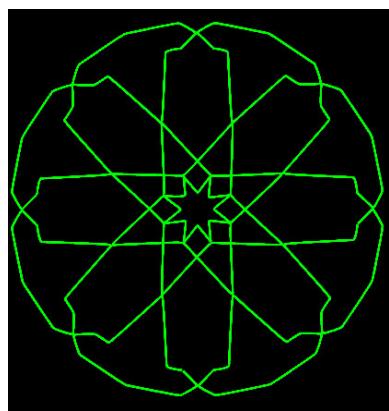
DMX Value 127

At DMX value 128 the graphic is invisible and continuously builds itself up along the x-axis when the values are increased up to 192.

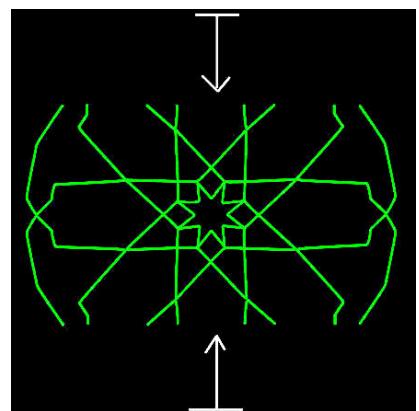
At DMX value 192 the graphic is completely visible and is "cut off" at the top and the bottom when the values are increased up to 255.



DMX Value 128 - 192



DMX Value 192



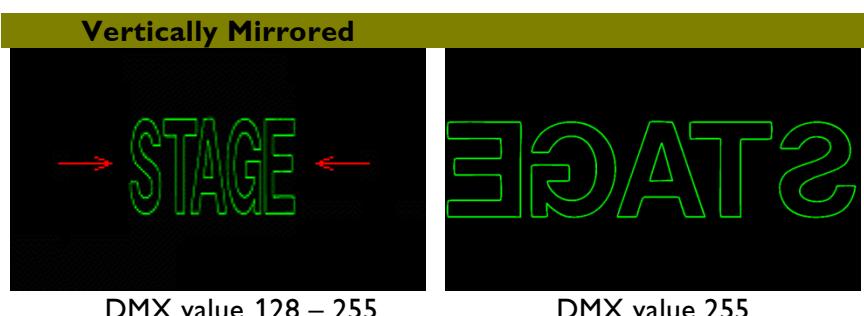
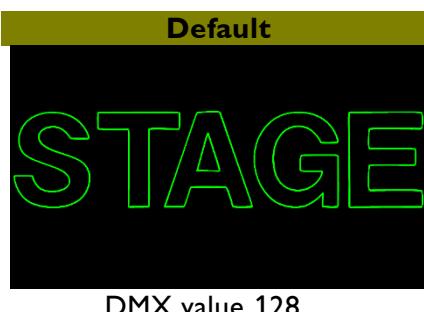
DMX Value 192 - 255

## Channel 20 *Aspect Ratio*

With channel 20 you compress the output in the x- resp. y-direction until it expands again in the opposite direction.

The default setting is 128.

Sometimes it is important to adapt the output to the local conditions. If you want to make a rear projection use the DMX value 255 and the projection will be mirrored so it appears the right way around to the viewers.



## Channel 21/22 *Offset X*

Channel 21 allows a rough positioning of the scanner output on the horizontal plane with a resolution of 8Bit.

The DMX value 128 is the default setting which positions the projected scanner picture in the center.

Values from 128 to 0 move the picture left, values over 128 move it right.

In the fine mode channel 22 is used for a more exact setting and slower movement with a resolution of 16Bit.

## Channel 23/24 *Offset Y*

Channel 23 allows a rough positioning of the scanner output on the vertical plane with a resolution of 8Bit.

The DMX value 128 is the default setting which positions the projected scanner picture in the center.

Values from 128 to 0 move the picture up, values over 128 move it down.

In the fine mode channel 24 is used for a more exact setting and slower movement with a resolution of 16Bit.

## Channel 25 *Sparkle*

With channel 25 you influence the intensity of individual points of the gobos. With DMX values from 0 – 128 the repeats of the individual points of the gobo are increased - the points therefore appear brighter.

### Tip:

To use this function the gobos have to be prepared.

By default the gobos in bank 1 and bank 2 are prepared for this function.

With the DMX values from 129 - 255 you control a striking special effect of all banks with which you can make individual points of an object light up briefly. The blinking is created by repeating different alternating points during the projection. You can influence the frequency, the number and the intensity of the points, i.e. the higher the DMX value the more and brighter the flashing points. It is not possible to influence which specific points light up.

## Channel 26 *Color*

This channel is used for RGB laser systems.

The default setting is 0.

### Note:

For single color laser systems it should be kept unchanged in order to guarantee maximum power with the color e.g. green.



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# DMX Channel Assignment

## Overview

| CHANNEL  | FUNCTION                 | DEFAULT | AUTO FADE |
|--|--------------------------|---------|-----------|
| <b>Moving Yoke (Stage units only)</b>              |                          |         |           |
| 1  | Pan Coarse               | 32768   | yes       |
| 2  | Pan Fine                 |         |           |
| 3  | Tilt Coarse              | 32768   | yes       |
| 4  | Tilt Fine                |         |           |
| <b>Mechanics (grating wheels, motorized focus)</b> |                          |         |           |
| 5  | Wheel 1                  | 0       | no        |
| 6  | Wheel 1 Index / Rotation | 128     | yes       |
| 7  | Wheel 2                  | 0       | no        |
| 8  | Wheel 2 Index / Rotation | 128     | yes       |
| 9  | Focus (BLITZ Stage only) | 0       | yes       |
| <b>Projection</b>                                  |                          |         |           |
| 10   | Dimmer                   | 0       | yes       |
| 11   | Strobe                   | 0       | yes       |
| 12   | Object Bank              | 0       | no        |
| 13   | Object Slot              | 0       | no        |
| 14   | Effect                   | 0       | no        |
| 15   | Effect Speed             | 192     | yes       |
| 16   | Object Size              | 255     | yes       |
| 17   | Zoom                     | 255     | yes       |
| 18   | Index                    | 128     | yes       |
| 19   | Mask                     | 0       | yes       |
| 20   | Aspect Ratio             | 128     | yes       |
| 21   | Offset X Coarse          | 32768   | yes       |
| 22   | Offset X Fine            |         |           |
| 23   | Offset Y Coarse          | 32768   | yes       |
| 24   | Offset Y Fine            |         |           |
| 25   | Sparkle                  | 0       | yes       |
| 26   | Color                    | 0       | yes       |



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## Detailed Assignment

| VALUE  | FUNCTION                         |                       |
|--|----------------------------------|-----------------------|
| <b>Channel 1 / 2 Moving Yoke Pan (Stage units only)</b>  |                                  |                       |
| 0-65535  | 0 – 360°                         |                       |
| <b>Channel 3 / 4 Moving Yoke Tilt (Stage units only)</b> |                                  |                       |
| 0-65535  | 0 – 270°                         |                       |
| <b>Channel 5 Wheel 1</b>                                 |                                  |                       |
| 0 – 63   |                                  | Open                  |
| 64 – 95  | Indexed                          | Grid WT               |
| 96 – 127   | Indexed                          | Machado               |
| 128 – 159  | Indexed                          | Stargate              |
| 160 – 191  | Rotation                         | Grid WT               |
| 192 – 223  | Rotation                         | Machado               |
| 224 – 255  | Rotation                         | Stargate              |
| <b>Channel 6 Wheel 1 – Index / Rotation</b>              |                                  |                       |
| 0 – 255  | Index                            | -90° ... 0° ... +90°  |
| 0 – 127  | Rotation                         | CCW Fast ... CCW Slow |
| 128  | Rotation                         | No Rotation           |
| 129 – 255  | Rotation                         | CW Slow... CW Fast    |
| <b>Channel 7 Wheel 2</b>                                 |                                  |                       |
| 0 – 63   |                                  | Open                  |
| 64 – 95  | Indexed                          | Grid XT               |
| 96 – 127   | Indexed                          | Line                  |
| 128 – 159  | Indexed                          | Lumia                 |
| 160 – 191  | Rotation                         | Grid XT               |
| 192 – 223  | Rotation                         | Line                  |
| 224 – 255  | Rotation                         | Lumia                 |
| <b>Channel 8 Wheel 2 – Index / Rotation</b>              |                                  |                       |
| 0 – 255  | Index                            | -90° ... 0° ... +90°  |
| 0 – 127  | Rotation                         | CCW Fast... CCW Slow  |
| 128  | Rotation                         | No Rotation           |
| 129 – 255  | Rotation                         | CW Slow... CW Fast    |
| <b>Channel 9 Focus (BLITZ Stage only)</b>                |                                  |                       |
| 0  | Beam focused                     |                       |
| 1 – 254  | Beam defocused                   |                       |
| 255  | Beam fully defocused             |                       |
| <b>Channel 10 Dimmer</b>                                 |                                  |                       |
| 0-185  | Intensity 0 – 100%               |                       |
| 186-255  | Fade to White (bleaching colors) |                       |



| VALUE   | FUNCTION             |  |           |      |                |         |
|---|----------------------|--|-----------|------|----------------|---------|
| <b>Channel 11 Strobe</b>                                      |                      |  |           |      |                |         |
| 0   | No Strobe            |  |           |      |                |         |
| 1-127   | Strobe (Slow → Fast) |  |           |      |                |         |
| <b>Channel 12 Object Bank</b>                                 |                      |  |           |      |                |         |
| 0 – 7   | Gobo Bank 1          | Gobo 0 – 31                                |           |      |                |         |
| 8 – 15  | Gobo Bank 2          | Gobo 32 – 63                               |           |      |                |         |
| 16 – 23   | Gobo Bank 3          | Gobo 64 – 95                               |           |      |                |         |
| 24 – 31   | Gobo Bank 4          | Gobo 96 – 127                              |           |      |                |         |
| 32 – 39   | Gobo Bank 5          | Gobo 128 – 159                             |           |      |                |         |
| 40 – 47   | Gobo Bank 6          | Gobo 160 – 191                             |           |      |                |         |
| 48 – 55   | Gobo Bank 7          | Gobo 192 – 223                             |           |      |                |         |
| 56 – 63   | Gobo Bank 8          | Gobo 224 – 255                             |           |      |                |         |
| 128 – 135   | Animation Bank       | Animation 1 – 32                           |           |      |                |         |
| 192 – 199   | Text Bank            | Text 1 – 32                                |           |      |                |         |
| 216 – 223   | Special Bank         | Special 1 – 5                              |           |      |                |         |
| 232 – 239   | Beam Bank            | Beam 1 – 18                                |           |      |                |         |
| 248 – 255   | Test Picture         | (independent of Channel 13 and Channel 14) |           |      |                |         |
| <b>Channel 13 Used Object Slots (depending on Channel 12)</b> |                      |  |           |      |                |         |
| Value   | Slot                 | Gobo                                       | Animation | Text | Special        | Beam    |
| 0 – 7   | 1                    | 0, 32, 64, ...                             | 1         | 1    | Wave           | Pattern |
| 8 – 15  | 2                    | 1, 33, 65, ...                             | 2         | 2    | Heartbeat      | Pattern |
| 16 – 23   | 3                    | 2, 34, 66, ...                             | 3         | 3    | Digital Clock  | Pattern |
| 24 – 31   | 4                    | 3, 35, 67, ...                             | 4         | 4    | Analog Clock 1 | Pattern |
| 32 – 39   | 5                    | 4, 36, 68, ...                             | 5         | 5    | Analog Clock 2 | Pattern |
| 40 – 47   | 6                    | 5, 37, 69, ...                             | 6         | 6    |                | Pattern |
| 48 – 55   | 7                    | 6, 38, 70, ...                             | 7         | 7    |                | Pattern |
| 56 – 63   | 8                    | 7, 39, 71, ...                             | 8         | 8    |                | Pattern |
| 64 – 71   | 9                    | 8, 40, 72, ...                             | 9         | 9    |                | Pattern |
| 72 – 79   | 10                   | 9, 41, 73, ...                             | 10        | 10   |                | Pattern |
| 80 – 87   | 11                   | 10, 42, 74, ...                            | 11        | 11   |                | Single  |
| 88 – 95   | 12                   | 11, 43, 75, ...                            | 12        | 12   |                | Single  |
| 96 – 103  | 13                   | 12, 44, 76, ...                            | 13        | 13   |                | Single  |
| 104 – 111   | 14                   | 13, 45, 77, ...                            | 14        | 14   |                | Single  |
| 112 – 119   | 15                   | 14, 46, 78, ...                            | 15        | 15   |                | Single  |
| 120 – 127   | 16                   | 15, 47, 79, ...                            | 16        | 16   |                | Single  |
| 128 – 135   | 17                   | 16, 48, 80, ...                            | 17        | 17   |                | Single  |
| 136 – 143   | 18                   | 17, 49, 81, ...                            | 18        | 18   |                | Single  |
| 144 – 151   | 19                   | 18, 50, 82, ...                            | 19        | 19   |                |         |
| 152 – 159   | 20                   | 19, 51, 83, ...                            | 20        | 20   |                |         |
| 160 – 167   | 21                   | 20, 52, 84, ...                            | 21        | 21   |                |         |
| 168 – 175   | 22                   | 21, 53, 85, ...                            | 22        | 22   |                |         |
| 176 – 183   | 23                   | 22, 54, 86, ...                            | 23        | 23   |                |         |
| 184 – 191   | 24                   | 23, 55, 87, ...                            | 24        | 24   |                |         |
| 192 – 199   | 25                   | 24, 56, 88, ...                            | 25        | 25   |                |         |
| 200 – 207   | 26                   | 25, 57, 89, ...                            | 26        | 26   |                |         |



|           |    |                 |    |    |  |  |  |
|-----------|----|-----------------|----|----|--|--|--|
| 208 – 215 | 27 | 26, 58, 90, ... | 27 | 27 |  |  |  |
| 216 – 223 | 28 | 27, 59, 91, ... | 28 | 28 |  |  |  |
| 224 – 231 | 29 | 28, 60, 92, ... | 29 | 29 |  |  |  |
| 232 – 239 | 30 | 29, 61, 93, ... | 30 | 30 |  |  |  |
| 240 – 247 | 31 | 30, 62, 94, ... | 31 | 31 |  |  |  |
| 248 – 255 | 32 | 31, 63, 95, ... | 32 | 32 |  |  |  |

| <b>Channel 13 Object Slot</b> |           |           |           |           |           |           |           |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Gobo</b>                   |           |           |           |           |           |           |           |
| <b>Bank 1</b>                 |           |           |           |           |           |           |           |
| 0 – 7                         | 8 – 15    | 16 – 23   | 24 – 31   | 32 – 39   | 40 – 47   | 48 – 55   | 56 – 63   |
|                               |           |           |           |           |           |           |           |
| 000                           | 001       | 002       | 003       | 004       | 005       | 006       | 007       |
| 64 – 71                       | 72 – 79   | 80 – 87   | 88 – 95   | 96 – 103  | 104 – 111 | 112 – 119 | 120 – 127 |
|                               |           |           |           |           |           |           |           |
| 008                           | 009       | 010       | 011       | 012       | 013       | 014       | 015       |
| 128 – 135                     | 136 – 143 | 144 – 151 | 152 – 159 | 160 – 167 | 168 – 175 | 176 – 183 | 184 – 191 |
|                               |           |           |           |           |           |           |           |
| 016                           | 017       | 018       | 019       | 020       | 021       | 022       | 023       |
| 192 – 199                     | 200 – 207 | 208 – 215 | 216 – 223 | 224 – 231 | 232 – 239 | 240 – 247 | 248 – 255 |
|                               |           |           |           |           |           |           |           |
| 024                           | 025       | 026       | 027       | 028       | 029       | 030       | 031       |



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| <b>Channel 13 Object Slot<br/>Gobo<br/>Bank 2</b> |           |           |           |           |           |           |           |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 – 7   | 8 – 15    | 16 – 23   | 24 – 31   | 32 – 39   | 40 – 47   | 48 – 55   | 56 – 63   |
|   |           |           |           |           |           |           |           |
| 032   | 033       | 034       | 035       | 036       | 037       | 038       | 039       |
| 64 – 71   | 72 – 79   | 80 – 87   | 88 – 95   | 96 – 103  | 104 – 111 | 112 – 119 | 120 – 127 |
|   |           |           |           |           |           |           |           |
| 040   | 041       | 042       | 043       | 044       | 045       | 046       | 047       |
| 128 – 135   | 136 – 143 | 144 – 151 | 152 – 159 | 160 – 167 | 168 – 175 | 176 – 183 | 184 – 191 |
|   |           |           |           |           |           |           |           |
| 048   | 049       | 050       | 051       | 052       | 053       | 054       | 055       |
| 192 – 199   | 200 – 207 | 208 – 215 | 216 – 223 | 224 – 231 | 232 – 239 | 240 – 247 | 248 – 255 |
|   |           |           |           |           |           |           |           |
| 056   | 057       | 058       | 059       | 060       | 061       | 062       | 063       |
| <b>Channel 13 Object Slot<br/>Gobo<br/>Bank 3</b> |           |           |           |           |           |           |           |
| 0 – 7   | 8 – 15    | 16 – 23   | 24 – 31   | 32 – 39   | 40 – 47   | 48 – 55   | 56 – 63   |
|   |           |           |           |           |           |           |           |
| 064   | 065       | 066       | 067       | 068       | 069       | 070       | 071       |
| 64 – 71   | 72 – 79   | 80 – 87   | 88 – 95   | 96 – 103  | 104 – 111 | 112 – 119 | 120 – 127 |
|   |           |           |           |           |           |           |           |
| 072   | 073       | 074       | 075       | 076       | 077       | 078       | 079       |
| 128 – 135   | 136 – 143 | 144 – 151 | 152 – 159 | 160 – 167 | 168 – 175 | 176 – 183 | 184 – 191 |
|   |           |           |           |           |           |           |           |
| 080   | 081       | 082       | 083       | 084       | 085       | 086       | 087       |
| 192 – 199   | 200 – 207 | 208 – 215 | 216 – 223 | 224 – 231 | 232 – 239 | 240 – 247 | 248 – 255 |
|   |           |           |           |           |           |           |           |
| 088   | 089       | 090       | 091       | 092       | 093       | 094       | 095       |



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| <b>Channel 13 Object Slot<br/>Gobo<br/>Bank 4</b> |           |           |           |           |           |           |           |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 – 7   | 8 – 15    | 16 – 23   | 24 – 31   | 32 – 39   | 40 – 47   | 48 – 55   | 56 – 63   |
|   |           |           |           |           |           |           |           |
| 096   | 097       | 098       | 099       | 100       | 101       | 102       | 103       |
| 64 – 71   | 72 – 79   | 80 – 87   | 88 – 95   | 96 – 103  | 104 – 111 | 112 – 119 | 120 – 127 |
|   |           |           |           |           |           |           |           |
| 104   | 105       | 106       | 107       | 108       | 109       | 110       | 111       |
| 128 – 135   | 136 – 143 | 144 – 151 | 152 – 159 | 160 – 167 | 168 – 175 | 176 – 183 | 184 – 191 |
|   |           |           |           |           |           |           |           |
| 112   | 113       | 114       | 115       | 116       | 117       | 118       | 119       |
| 192 – 199   | 200 – 207 | 208 – 215 | 216 – 223 | 224 – 231 | 232 – 239 | 240 – 247 | 248 – 255 |
|   |           |           |           |           |           |           |           |
| 120   | 121       | 122       | 123       | 124       | 125       | 126       | 127       |
| <b>Channel 13 Object Slot<br/>Gobo<br/>Bank 5</b> |           |           |           |           |           |           |           |
| 0 – 7   | 8 – 15    | 16 – 23   | 24 – 31   | 32 – 39   | 40 – 47   | 48 – 55   | 56 – 63   |
|   |           |           |           |           |           |           |           |
| 128   | 129       | 130       | 131       | 132       | 133       | 134       | 135       |
| 64 – 71   | 72 – 79   | 80 – 87   | 88 – 95   | 96 – 103  | 104 – 111 | 112 – 119 | 120 – 127 |
|   |           |           |           |           |           |           |           |
| 136   | 137       | 138       | 139       | 140       | 141       | 142       | 143       |
| 128 – 135   | 136 – 143 | 144 – 151 | 152 – 159 | 160 – 167 | 168 – 175 | 176 – 183 | 184 – 191 |
|   |           |           |           |           |           |           |           |
| 144   | 145       | 146       | 147       | 148       | 149       | 150       | 151       |
| 192 – 199   | 200 – 207 | 208 – 215 | 216 – 223 | 224 – 231 | 232 – 239 | 240 – 247 | 248 – 255 |
|   |           |           |           |           |           |           |           |
| 152   | 153       | 154       | 155       | 156       | 157       | 158       | 159       |



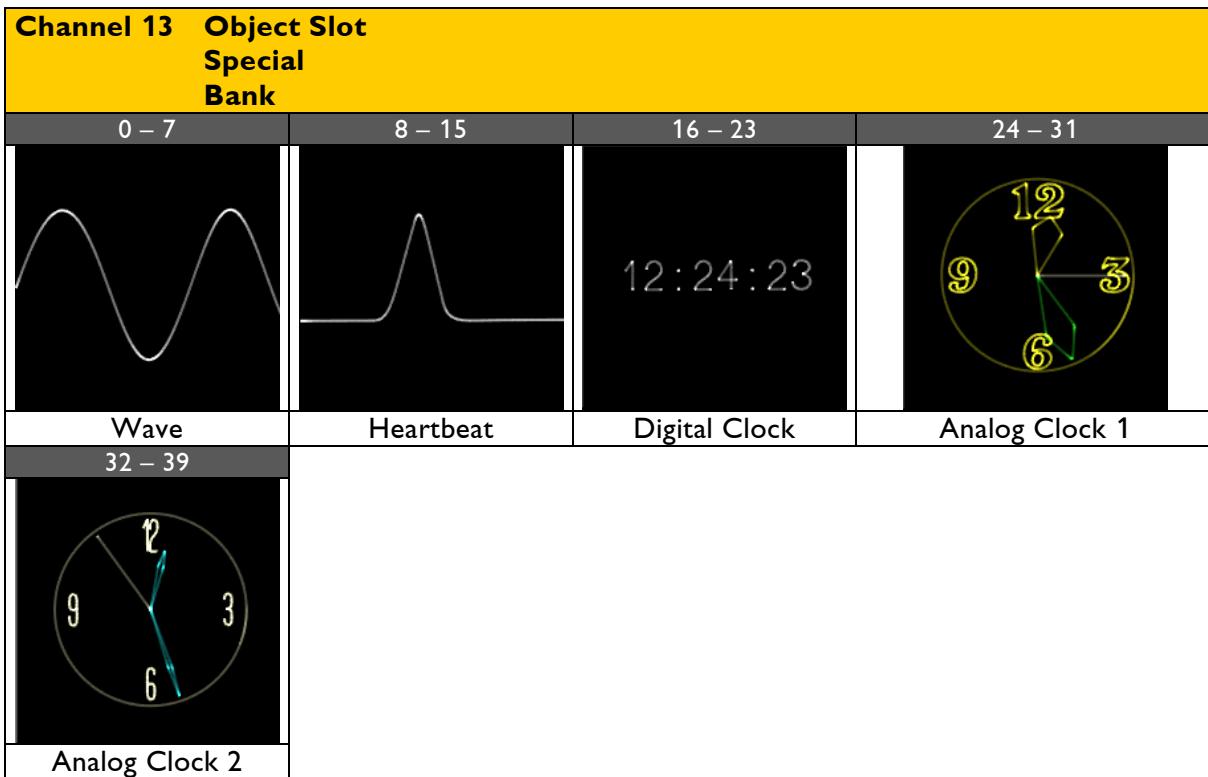
| <b>Channel 13 Object Slot<br/>Gobo<br/>Bank 6</b> |           |           |           |           |           |           |           |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 – 7   | 8 – 15    | 16 – 23   | 24 – 31   | 32 – 39   | 40 – 47   | 48 – 55   | 56 – 63   |
|   |           |           |           |           |           |           |           |
| 160   | 161       | 162       | 163       | 164       | 165       | 166       | 167       |
| 64 – 71   | 72 – 79   | 80 – 87   | 88 – 95   | 96 – 103  | 104 – 111 | 112 – 119 | 120 – 127 |
|   |           |           |           |           |           |           |           |
| 168   | 169       | 170       | 171       | 172       | 173       | 174       | 175       |
| 128 – 135   | 136 – 143 | 144 – 151 | 152 – 159 | 160 – 167 | 168 – 175 | 176 – 183 | 184 – 191 |
|   |           |           |           |           |           |           |           |
| 176   | 177       | 178       | 179       | 180       | 181       | 182       | 183       |
| 192 – 199   | 200 – 207 | 208 – 215 | 216 – 223 | 224 – 231 | 232 – 239 | 240 – 247 | 248 – 255 |
|   |           |           |           |           |           |           |           |
| 184   | 185       | 186       | 187       | 188       | 189       | 190       | 191       |
| <b>Channel 13 Object Slot<br/>Gobo<br/>Bank 7</b> |           |           |           |           |           |           |           |
| 0 – 7   | 8 – 15    | 16 – 23   | 24 – 31   | 32 – 39   | 40 – 47   | 48 – 55   | 56 – 63   |
|   |           |           |           |           |           |           |           |
| 192   | 193       | 194       | 195       | 196       | 197       | 198       | 199       |
| 64 – 71   | 72 – 79   | 80 – 87   | 88 – 95   | 96 – 103  | 104 – 111 | 112 – 119 | 120 – 127 |
|   |           |           |           |           |           |           |           |
| 200   | 201       | 202       | 203       | 204       | 205       | 206       | 207       |
| 128 – 135   | 136 – 143 | 144 – 151 | 152 – 159 | 160 – 167 | 168 – 175 | 176 – 183 | 184 – 191 |
|   |           |           |           |           |           |           |           |
| 208   | 209       | 210       | 211       | 212       | 213       | 214       | 215       |
| 192 – 199   | 200 – 207 | 208 – 215 | 216 – 223 | 224 – 231 | 232 – 239 | 240 – 247 | 248 – 255 |
|   |           |           |           |           |           |           |           |
| 216   | 217       | 218       | 219       | 220       | 221       | 222       | 223       |



| <b>Channel 13 Object Slot Gobo Bank 8</b>    |           |           |           |           |           |           |           |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 – 7  | 8 – 15    | 16 – 23   | 24 – 31   | 32 – 39   | 40 – 47   | 48 – 55   | 56 – 63   |
|  |           |           |           |           |           |           |           |
| 224  | 225       | 226       | 227       | 228       | 229       | 230       | 231       |
| 64 – 71                                      | 72 – 79   | 80 – 87   | 88 – 95   | 96 – 103  | 104 – 111 | 112 – 119 | 120 – 127 |
|  |           |           |           |           |           |           |           |
| 232  | 233       | 234       | 235       | 236       | 237       | 238       | 239       |
| 128 – 135                                    | 136 – 143 | 144 – 151 | 152 – 159 | 160 – 167 | 168 – 175 | 176 – 183 | 184 – 191 |
|  |           |           |           |           |           |           |           |
| 240  | 241       | 242       | 243       | 244       | 245       | 246       | 247       |
| 192 – 199                                    | 200 – 207 | 208 – 215 | 216 – 223 | 224 – 231 | 232 – 239 | 240 – 247 | 248 – 255 |
|  |           |           |           |           |           |           |           |
| 248  | 249       | 250       | 251       | 252       | 253       | 254       | 255       |
| <b>Channel 13 Object Slot Animation Bank</b> |           |           |           |           |           |           |           |
| 0 – 7  | 8 – 15    | 16 – 23   | 24 – 31   | 32 – 39   | 40 – 47   | 48 – 55   | 56 – 63   |
|  |           |           |           |           |           |           |           |
| Ani_01                                       | Ani_02    | Ani_03    | Ani_04    | Ani_05    | Ani_06    | Ani_07    | Ani_08    |
| 64 – 71                                      | 72 – 79   | 80 – 87   | 88 – 95   | 96 – 103  | 104 – 111 | 112 – 119 | 120 – 127 |
|  |           |           |           |           |           |           |           |
| Ani_09                                       | Ani_10    | Ani_11    | Ani_12    | Ani_13    | Ani_14    | Ani_15    | Ani_16    |
| 128 – 135                                    | 136 – 143 | 144 – 151 | 152 – 159 | 160 – 167 | 168 – 175 | 176 – 183 | 184 – 191 |
|  |           |           |           |           |           |           |           |
| Ani_17                                       | Ani_18    | Ani_19    | Ani_20    | Ani_21    | Ani_22    | Ani_23    | Ani_24    |
| 192 – 199                                    | 200 – 207 | 208 – 215 | 216 – 223 | 224 – 231 | 232 – 239 | 240 – 247 | 248 – 255 |
|  |           |           |           |           |           |           |           |
| Ani_25                                       | Ani_26    | Ani_27    | Ani_28    | Ani_29    | Ani_30    | Ani_31    | Ani_32    |



| VALUE                                   | FUNCTION |                                    |
|---|----------|------------------------------------|
| <b>Channel 13 Object Slot Text Bank</b> |          |                                    |
| Value                                   | Slot     | Default Text                       |
| 0 – 7                                   | 1        | WELCOME                            |
| 8 – 15                                  | 2        | WELCOME, LADIES AND GENTLEMEN      |
| 16 – 23                                 | 3        | GOOD EVENING, LADIES AND GENTLEMEN |
| 24 – 31                                 | 4        | HAPPY BIRTHDAY                     |
| 32 – 39                                 | 5        | MERRY CHRISTMAS                    |
| 40 – 47                                 | 6        | HAPPY NEW YEAR                     |
| 48 – 55                                 | 7        | HAPPY EASTER                       |
| 56 – 63                                 | 8        | HAPPY HALLOWEEN                    |
| 64 – 71                                 | 9        | JUST MARRIED                       |
| 72 – 79                                 | 10       | CONGRATULATIONS                    |
| 80 – 87                                 | 11       | IT'S SHOWTIME                      |
| 88 – 95                                 | 12       | IT'S PARTY TIME                    |
| 96 – 103                                | 13       | HAVE A NICE PARTY                  |
| 104 – 111                               | 14       | HAVE A NICE EVENING                |
| 112 – 119                               | 15       | HAVE A NICE DAY                    |
| 120 – 127                               | 16       | LET'S DANCE                        |
| 128 – 135                               | 17       | READY TO RUMBLE                    |
| 136 – 143                               | 18       | COME ON EVERYBODY                  |
| 144 – 151                               | 19       | APPLAUSE                           |
| 152 – 159                               | 20       | THANK YOU                          |
| 160 – 167                               | 21       | QUIET PLEASE                       |
| 168 – 175                               | 22       | LISTEN                             |
| 176 – 183                               | 23       | GOAL!                              |
| 184 – 191                               | 24       | START                              |
| 192 – 199                               | 25       | FINISH                             |
| 200 – 207                               | 26       | BREAK                              |
| 208 – 215                               | 27       | CHEERS                             |
| 216 – 223                               | 28       | NO SMOKING PLEASE                  |
| 224 – 231                               | 29       | TIME TO SAY GOOD BYE               |
| 232 – 239                               | 30       | GOOD BYE                           |
| 240 – 247                               | 31       | ACCURATE BLITZ STAGE               |
| 248 – 255                               | 32       | 10 9 8 7 6 5 4 3 2 1 GO!           |



**Channel 13 Object Slot Beam Bank**

| VALUE     | Slot | FUNCTION     |   |   |   |   |   |   |   |
|-----------|------|--------------|---|---|---|---|---|---|---|
|           |      | Beam Pattern |   |   |   |   |   |   |   |
|           |      | 1            | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 0 – 7     | 1    | X            | X | X | X | X | X | X | X |
| 8 – 15    | 2    | X            | X |   |   |   |   |   |   |
| 16 – 23   | 3    |              |   |   |   |   |   | X | X |
| 24 – 31   | 4    |              |   |   | X | X |   |   |   |
| 32 – 39   | 5    | X            |   | X |   |   | X |   | X |
| 40 – 47   | 6    |              | X |   | X |   |   |   |   |
| 48 – 55   | 7    |              |   |   |   | X |   | X |   |
| 56 – 63   | 8    | X            |   |   |   |   |   |   | X |
| 64 – 71   | 9    |              |   | X | X | X | X |   |   |
| 72 – 79   | 10   | X            | X | X | X | X | X | X | X |
|           |      | Single Beams |   |   |   |   |   |   |   |
| 80 – 87   | 11   | X            |   |   |   |   |   |   |   |
| 88 – 95   | 12   |              | X |   |   |   |   |   |   |
| 96 – 103  | 13   |              |   | X |   |   |   |   |   |
| 104 – 111 | 14   |              |   |   | X |   |   |   |   |
| 112 – 119 | 15   |              |   |   |   | X |   |   |   |
| 120 – 127 | 16   |              |   |   |   |   | X |   |   |
| 128 – 135 | 17   |              |   |   |   |   |   | X |   |
| 136 – 143 | 18   |              |   |   |   |   |   |   | X |



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| VALUE  | FUNCTION  |   |                                     |                                |
|--|-----------|---|-------------------------------------|--------------------------------|
| <b>Channel 14 Effect (depending on Channel 12)</b> |           |   |                                     |                                |
|  |           | Gobo<br>Channel 12 = 0...63                 | Animation<br>Channel 12 = 128...135 | Text<br>Channel 12 = 192...199 |
| 0 – 7  | Effect 1  | Static                                      | Static                              | Right to left                  |
| 8 – 15   | Effect 2  | Rotate                                      | Rotate                              | Diagonal                       |
| 16 – 23  | Effect 3  | Draw, extinguish                            | Prism                               | Diagonal, fade in              |
| 24 – 31  | Effect 4  | Prism                                       |                                     | Half rotating characters       |
| 32 – 39  | Effect 5  | Movement, horizontal                        |                                     | Rotating characters            |
| 40 – 47  | Effect 6  | Movement, vertical                          |                                     | Swaying characters             |
| 48 – 55  | Effect 7  | Movement in circle around center            |                                     | Twisting characters            |
| 56 – 63  | Effect 8  | Movement in circle and Rotate around center |                                     | Wave                           |
| 64 – 71  | Effect 9  | Movement in square and rotate around center |                                     | Distorting characters          |
| 72 – 79  | Effect 10 | Rotate, zooming 1                           |                                     | Zooming characters             |
| 80 – 87  | Effect 11 | 3 Gobos: Rotate and up / down               |                                     |                                |
| 88 – 95  | Effect 12 | Rotate and Ratio                            |                                     |                                |
| 96 – 103   | Effect 13 | 3 Gobos: Rotate, ratio and up / down        |                                     |                                |
| 104 – 111  | Effect 14 | 3 Gobos: Zoom and movement around center    |                                     |                                |
| 112 – 119  | Effect 15 | 3 Gobos: Rotate, clipped                    |                                     |                                |



| VALUE  | FUNCTION                  |   |  |
|--|---------------------------|---|--|
| <b>Channel 14 Effect (depending on Channel 12)</b> |                           |   |  |
| 120 – 127  | Effect 16                 | 3 Gobos: Rotation                         |  |
| 128 – 135  | Effect 17                 | 4 Gobos: Movement diagonal and rotation   |  |
| 136 – 143  | Effect 18                 | 2 Gobos: Rotation, stretched              |  |
| 144 – 151  | Effect 19                 | 2 Gobos: Up / down and left / right 1     |  |
| 152 – 159  | Effect 20                 | Rotate, zooming 2                         |  |
| 160 – 167  | Effect 21                 | 4 Gobos: Move through center              |  |
| 168 – 175  | Effect 22                 | 4 Gobos: Rotation and move through center |  |
| 176 – 183  | Effect 23                 | 2 Gobos: Fly around 1                     |  |
| 184 – 191  | Effect 24                 | 2 Gobos: Fly around 2                     |  |
| 192 – 199  | Effect 25                 | 2 Gobos: Up / down and left / right 2     |  |
| 200 – 207  | Effect 26                 | 3 Gobos: Up / down, rotation              |  |
| 208 – 215  | Effect 27                 | 2 Gobos: Movement and rotate              |  |
| 216 – 223  | Effect 28                 | 2 Gobos: Movement from top to bottom      |  |
| 224 – 231  | Effect 29                 | 2 Gobos: Rotate, zooming 3                |  |
| 232 – 239  | Effect 30                 | 2 Gobos: Rotate, zooming 4                |  |
| 240 – 247  | Effect 31                 | 2 Gobos: Rotate, zooming 5                |  |
| 248 – 255  | Effect 32                 | 2 Gobos: Rotate, clipped                  |  |
| <b>Channel 15 Effect Speed / Direction</b>         |                           |   |  |
| 0 – 127  | Backward fast ... slow    |   |  |
| 128  | Stop                      |   |  |
| 129 – 255  | Forward slow ... fast     |   |  |
| <b>Channel 16 Object Size</b>                      |                           |   |  |
| 0 – 255  | 10% - 100%                |   |  |
| <b>Channel 17 Zoom</b>                             |                           |   |  |
| 0 – 255  | 10% - 100%                |   |  |
| <b>Channel 18 Index</b>                            |                           |   |  |
| 0 – 255  | -240° ... 0° ... +240°    |   |  |
| <b>Channel 19 Mask</b>                             |                           |   |  |
| 0 – 63   | Open – Close (Iris)       |   |  |
| 64 – 127   | Close – Open (Square)     |   |  |
| 128 – 191  | Close – Open (Horizontal) |   |  |
| 192 – 255  | Open – Close (Vertical)   |   |  |
| <b>Channel 20 Aspect Ratio</b>                     |                           |   |  |
| 0 – 127  | Y-Size -100% → +100%      |   |  |
| 128 – 255  | X-Size +100% → -100%      |   |  |



| <b>Channel 21/22 Offset X</b> |                         |
|-------------------------------|-------------------------|
| 0 – 65535                     | Left... Center... Right |
| <b>Channel 23/24 Offset Y</b> |                         |
| 0 – 65535                     | Top... Center... Bottom |
| <b>Channel 25 Sparkle</b>     |                         |
| 0 – 7                         | No Sparkle              |
| 8 – 127                       | Static (Repeats 1 – 15) |
| 128 – 255                     | Random                  |



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| VALUE             | FUNCTION     |
|-------------------|--------------|
| <b>Channel 26</b> | <b>Color</b> |

**Attention:**  
To obtain the following colors DMX channel 10 *Dimmer* has to be set **to 80%** (DMX value: **185** or lower for reduced brightness).  
If *Dimmer* is set to values higher than 185 output color will change to **WHITE!**

**Notes:**

- (1) Using channels 1 to 64 the colors based on the "Primary Colors" (DSP Global Parameter Window) can be controlled.
- (2) With channels 73 to 128 it is possible to influence the six "Laser lines" C1 - C6. Settings in the "Primary Colors" have no effect.

| DMX Value | Color                                   |
|-----------|---|
| 0         | Original color of frame                 |
| 1...8     | Red ⇔ Magenta                           |
| 9...16    | Black ⇔ Blue                            |
| 17...24   | Black ⇔ Cyan                            |
| 25...32   | Black ⇔ Green                           |
| 33...40   | Blue ⇔ Yellow                           |
| 41...48   | Green ⇔ Red                             |
| 49...56   | Magenta ⇔ White                         |
| 57...64   | Green ⇔ Power                           |
| 65...72   | Magenta (special) ⇔ Black               |
| 73...80   | C2 Green & C6 Yellow ⇔ Black            |
| 81...88   | C1 Red ⇔ Black                          |
| 89...96   | C4 Cyan & C6 Yellow ⇔ Black             |
| 97...104  | C3 Blue ⇔ Black                         |
| 105...112 | C3 Blue & C4 Cyan ⇔ Black               |
| 113...120 | C1 Red & C3 Blue & C6 Yellow ⇔ Black    |
| 121...128 | C2 Green & C6 Yellow ⇔ C1 Red & C4 Cyan |
| 128...191 | Color Changer                           |
| 192...255 | Color Cycle                             |

