

# **10\*60W MOVING BLADE**

## **Instruction Manual**



## **1. Remove the packaging**

**For the correct and safe use of this product, please read the instructions carefully before installing and using this product. This manual contains important installation and application information. Please strictly follow the operation steps in the manual when installing and operating the product. At the same time, please keep this manual properly.**

**1060 rattlesnake strip lamp strictly follow the CE standard design and production, in line with the international standard DMX512 signal protocol, can be used alone control, can also be used online, with fast rotation, low noise, powerful features, suitable for small and medium-sized concerts, theaters, studios, nightclubs and bars and other places.**

**Please remove the packaging carefully, check whether this product has been Damaged during transportation after the packaging is removed, and check whether the following contents are complete.**

**1060 Moving blade ----1**

**Signal cable ----1**

**Instruction manual ----1**

**This power cable ----1**

**Hanging accessories ----1**

## **2 Safety instructions**

### **Attention!**

**Be careful before handling this product, it is a high voltage product and may receive electric shock if it touches the wire!**

**This product is in good condition before delivery. In order to keep this product in good condition and ensure safe operation, users should follow the safety precautions and warnings in this manual.**

 **Important: Damage caused by failure to follow this instruction manual is not covered by warranty. The supplier is not responsible for any product problems arising therefrom. If the product has been exposed to extremely unstable temperatures (e.g., after transportation), do not plug in the power supply immediately, as water droplets due to temperature changes may damage the product. Do not use the product until it has returned to its normal temperature.**

**This product can be used in the 90-240V voltage range and is intended for indoor use. Please ensure that the voltage used is not higher than the product can withstand the range!! The power plug must be plugged into a protective Class I outlet. Green or tea blue conductors must be grounded.**

**Always check this product grade power cord. Make sure the power cord is not folded or damaged or scratched, and is not connected to other wires! Special care should be taken when connecting power cables or related connections. Always unplug this product when not in use or before cleaning.**

**Before using the product, familiarize yourself with the operation function of the product. Do not let children or unprofessional people touch the product.**

**Do not shake the product. Do not use brute force when installing or operating the product. Do not allow unprofessional personnel to operate the product. Most damage is caused by unprofessional handling.**

**The product is not equipped with the relevant repair parts. The maintenance and repair of the product can only be carried out by professionals!**

**Please do not modify this product without authorization, otherwise it may damage the product, so the damage is not covered by the warranty. Moreover, unprofessional operation may result in short circuit, burn or electric shock, etc.**

### ***3. Operating instructions***

- This product is a shaking head dyeing beam lamp, used to create dyeing performance effects.**
- If the product after a large temperature difference (for example, after transportation), do not start the product immediately, because the heat account cold contraction will damage the product. Please wait until the equipment reaches normal room temperature before starting the product.**
- Pay attention to shock resistance. Avoid strong collision during product installation. -- Please do not lift the entire product through the lamp holder, as the mechanical properties of such equipment may be damaged.**
- When choosing an installation location, make sure the product is not exposed to overheating, wet or dusty areas. Do not place any wires on the ground, or you may be at risk of electric shock.**
- Make sure the installation point is secure before installing the product**
- Please attach the safety rope to the product and check that all screws are correct during installation**
- Please make sure the lens is in good condition. Replace the lens when it is damaged or scratched.**
- It is recommended that a technician familiar with this product should operate this product. It is forbidden for non-technical personnel to operate the equipment, as many losses are the result of unprofessional operation.**
- Please keep packing materials safe in case of secondary transportation.**
- Do not alter the product without the instructions of the manufacturer or distributor.**
- Any equipment failure caused by the use of the equipment not in accordance with the instructions shall not be covered by the warranty. And any resulting short circuit, injury, electric shock, ultraviolet damage, lamp explosion accidents are not covered by the warranty.**

### ***4. Product hanging and installation***

**Note: For greater safety, please hang and install this product away from aisles, seating areas, or areas within human reach. Before hanging this product, make sure that the mounting point can withstand 10 times the weight of the final product.**

**The product must be mounted with a double protection device, such as a safety rope.**

**Do not stand under the installation point when hanging, removing or repairing the product. Ensure that the product is installed at least 0.5 meters away from flammable materials.**

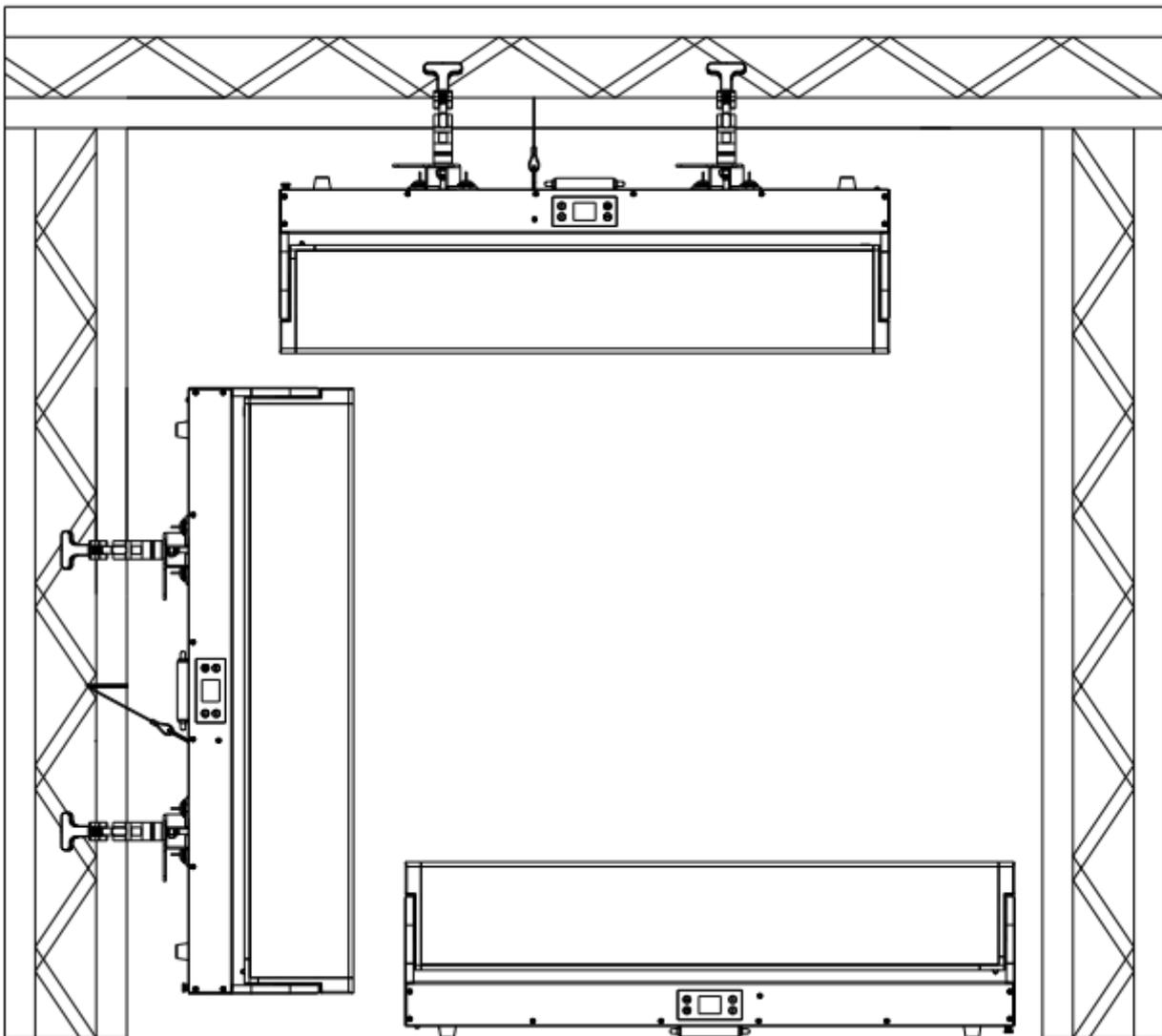
**Remember to use a safety rope as a safety guarantee in case of an accident if the fast lock comes loose.**

**Lifting point:** The installation personnel must be experienced in the top hanging, including the calculation of load requirements, the use of installation materials, and periodically check the safety of installation materials and products. If you lack this knowledge, do not attempt to install it yourself. Serious consequences such as personal injury can result if done incorrectly.

**Before powering on the product, ensure that all required hanging and installation steps are completed.**

**Quick lock hanger:** The bottom of this product is specially designed professional hanger, including quick lock hanger and safety rope hanger point (please refer to the figure below).

**When hanging this product on the truss, please remember to use the appropriate quick lock, fix it to the quick lock hanger position of the product, and use the M10 screws to hang it. For further safety, attach the safety rope to the safety rope hanging point at the bottom of the product and fix it to the truss.**

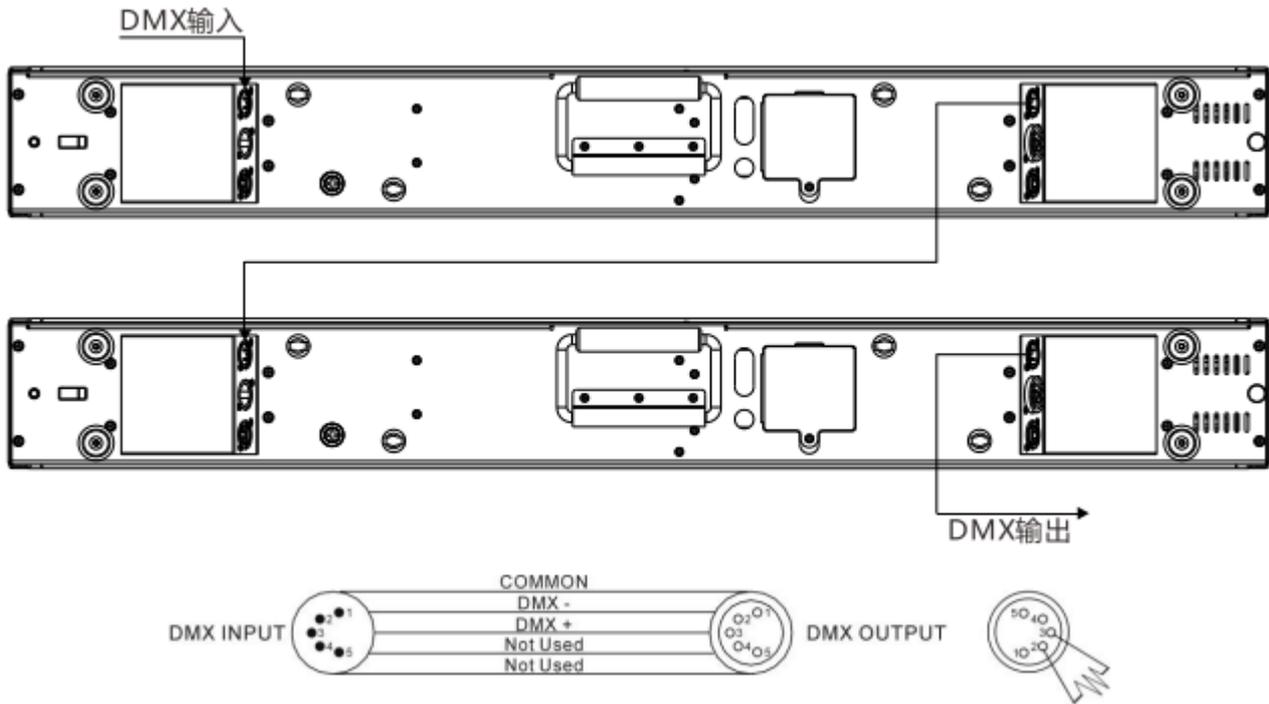


**No matter which sling you choose, remember to always use a safety rope. The bottom of the product is equipped with a special safety rope hanging point, please refer to the figure above, and please remember to use the specially provided safety rope hanging point, do not install the safety rope in the handle position.**

**No matter which sling you choose, remember to always use a safety rope. The bottom of the product is equipped**

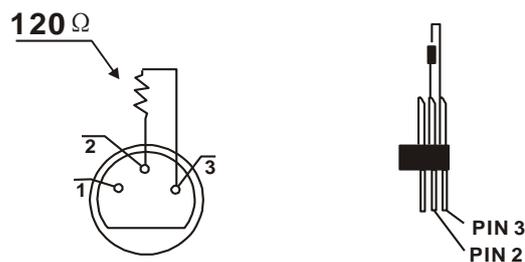
## 6. DMX-512 connection

Please plug the male head of the XLR signal cable equipped with this product into the signal output port of the controller, and the female head into the signal input port on the back board of this product. You can connect multiple products in series. The signal cable needs to be three-core, shielded, with XLR input and output heads. Please refer to the picture below.



### DMX-512 connection requires terminator (loop connection)

During the installation process, if the distance of the signal line is relatively long, or in the environment of relatively noisy appliances, such as dance halls, it is recommended to use DMX terminal (loop connection). This can avoid the digital control signal turbidity caused by the noise of electrical appliances. The DMX terminal is composed of a simple XLR connector 2 and 3 cores connected to a 120 ohm resistor. Please plug the terminal into the XLR output port of the last product, please refer to the figure below.



## 7. Menu

Menu	Secondary menu	Tertiary menus/parameters
<b>System Settings</b>	<b>Run mode</b>	<b>DMX / voice / self1/self2</b>
	<b>Channel mode</b>	<b>17CH/27CH/99CH/108CH/168CH/170CH</b>
	<b>Pixel inversion</b>	<b>On/Off</b>
	<b>Invert tilt</b>	<b>On/Off</b>
	<b>Reserved function</b>	<b>On/Off</b>
	<b>Opt coupler error correction</b>	<b>On/Off</b>
	<b>Signal hold</b>	<b>On/Off</b>
	<b>Screen saver</b>	<b>On/Off</b>
	<b>Invert screen</b>	<b>On/Off/Auto</b>
	<b>Synchronous update</b>	<b>On/Off (Please perform this function under the line of unplugging DMX)</b>
	<b>Language</b>	<b>Chinese /EN</b>
	<b>Dimming curve</b>	<b>Curves 1-4</b>
	<b>Dimming speed</b>	<b>Fast/smooth</b>
<b>Factory data reset</b>		
<b>Manual mode</b>	<b>Manual control of channel values</b>	<b>000-255</b>
<b>system calibration</b>	<b>Enter password</b>	<b>Lighting calibration</b>
<b>System reset</b>	<b>Reset effect</b>	
	<b>Reset scan</b>	
	<b>Reset all</b>	
<b>System information</b>	<b>Reset message</b>	<b>Display the reset error message</b>
	<b>DMX data detection</b>	<b>Channel values for the receiving console</b>
	<b>Sensor information</b>	<b>Display optocoupler, Hall specific information</b>
	<b>Hardware version</b>	<b>Display the hardware version number</b>
	<b>Software version</b>	<b>Display the software version number</b>

## System Settings

Options	Instructions	
Running mode	<b>Lamp operation mode: DMX/Sound/Auto1/ Auto2</b>	
	<b>DMX mode</b>	<b>Console mode, receiving DMX signals.</b>
	<b>Auto 1</b>	<b>The luminaire runs automatically by following the built- in self-walking program 1.</b>
	<b>Auto 2</b>	<b>The light fixture runs automatically by following the built-in self-walking program 2.</b>
	<b>Sound</b>	<b>When the lamp detects a strong sound, the lamp automatically runs a scene according to the built-in program, otherwise keep the last scene.</b>
<b>Channel mode</b>	<b>17CH/27CH/99CH/108CH /168CH/170CH</b>	
Pixel inversion	<b>The sequence of the lamp beads is changed, for example, the lamp beads 1-10 become 10-1</b>	
	<b>On</b>	<b>The sequence of lamp beads is reversed</b>
	<b>Off</b>	<b>The lamp bead sequence is not reversed</b>
Invert Tilt	<b>Set the Y-axis rotation direction</b>	
	<b>On</b>	<b>Reverse</b>
	<b>Off</b>	<b>Not reverse</b>
<b>Reservation function</b>	<b>None</b>	
Encoder crct	<b>Detect if XY is out of step and correct</b>	
	<b>On</b>	<b>Automatically correct position after losing step</b>
	<b>Off</b>	<b>Do not correct position after out of step</b>
Signal keep	<b>The output status of the luminaire when there is no DMX signal</b>	
	<b>Off</b>	<b>No signal, so the motor and light source return to the position and state when the reset is complete</b>
	<b>On</b>	<b>No signal, keep the last frame of DMX data output</b>
Screen Saver	<b>How long the screen is on</b>	
	<b>Off</b>	<b>Steady on</b>
	<b>On</b>	<b>In a static environment, the screen automatically closes at the time point</b>
Invert Screen	<b>Set the display direction of the screen</b>	
	<b>Off</b>	<b>Do not invert display</b>
	<b>On</b>	<b>Invert display</b>
	<b>Auto</b>	<b>The system can automatically rotate the screen according to the direction of gravity</b>
<b>Update slave</b>	<b>Synchronize Settings or calibration parameters for multiple lamps</b>	

	<b>Off</b>	<b>Sync update feature turned off.</b>
	<b>On</b>	<b>After opening, connect multiple lamps with DMX line, and update information synchronously in the setting interface and calibration interface. (Note: Please unplug the DMX signal cable connected to the console)</b>
<b>Language</b>	<b>English and Chinese menu switching</b>	
	中	<b>Chinese</b>
	<b>EN</b>	<b>English menu</b>
<b>Dimming curve</b>	<b>The change curve of dimming brightness</b>	
	<b>Curve 1</b>	<b>Linearity</b>
	<b>Curve 2</b>	<b>Square</b>
	<b>Curve 3</b>	<b>Inverse square</b>
	<b>Curve 4</b>	<b>S-curve</b>
<b>Dimming speed</b>	<b>Dimming speed changes</b>	
	<b>Fast</b>	<b>The dimming speed is faster</b>
	<b>Smooth</b>	<b>The dimming speed is slow</b>
<b>Load default</b>	<b>Lamp parameters return to factory Settings</b>	
	<b>Cancel</b>	<b>Leave as it is</b>
	<b>Confirm</b>	<b>Restore the light fixture to factory Settings</b>

#### **Manual control**

**This interface is used to control the current lamp, see the channel table for details.**

**Press "OK" to enter the editing state. Press the "up" "Down" key to change the channel value. Press "OK" again to save the modified value and exit editing, press "Exit" to not save the modified value and exit editing directly.**

## ▣ System Calibration

A layer of password is set here to prevent misoperation by non-professionals. Press "OK" for password verification.

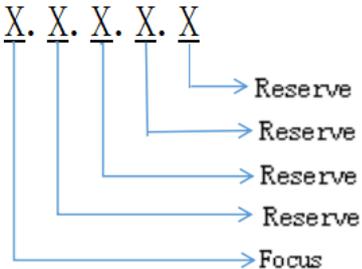
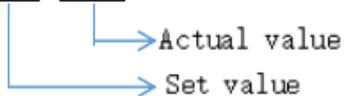
Options	Instructions
<b>Initial Position Calibration</b>	<b>After entering the sub-interface, you can adjust the reset position of the Y-axis, focusing and other motors to make up for the error on the hardware installation, adjustment range 0 to 255,127 indicates no adjustment.</b>
<b>White balance calibration</b>	<b>Adjustable LED1-10 as well as the overall LED power, adjustment range 0 to 255, 255 indicates no adjustment.</b>
<b>Power calibration</b>	<b>The maximum power of the whole lamp can be adjusted. The adjustment range is 0 to 255. 255 indicates that there is no adjustment.</b>
<b>MIC sensitivity calibration</b>	<b>Adjust the voice-activated sensitivity.</b>
<b>Change your password</b>	<b>Set your system calibration password.</b>

## ▣ Reset

Press the "up" and "Down" keys to switch the reset mode, and press "OK" to reset directly.

Options	Instructions
<b>Effect motor reset</b>	<b>Focusing and other motor reset</b>
<b>Scanning motor reset</b>	<b>Y-axis reset only</b>
<b>Reset of all motors</b>	<b>Luminaire reset</b>

**System information**

Options	Instructions
<p><b>Reset error message</b></p>	<p>If the red ERR indicator lights up, the luminaire is operating incorrectly:</p> <ol style="list-style-type: none"> <li>1) IC1 communication failure (6 lamp pearl lamp board and display board communication failure)</li> <li>2) IC2 communication failure (4 light pearl board and display board communication failure)</li> <li>3) An error is reported on Y axis</li> <li>4) Reset failed</li> </ol>
<p><b>DMX data monitoring</b></p>	<p>From this, enter the sub-interface, display the channel value in numerical value for viewing, can turn the page</p>
<p><b>Sensor information</b></p>	<p>1) Hall:</p>  <p>2) Sensor:</p> <p>X, Y optocoupler: <u>XXXX</u>--<u>XXXX</u></p> 
<p><b>Hardware version number</b></p>	<p><b>Luminaire hardware information</b></p> <p><u>XX</u> . <u>XX</u> . <u>XX</u> . XX</p> <p>↓ ↓ ↓</p> <p><b>Display board version. Motor version. Light board version</b></p>
<p><b>Software Version number</b></p>	<p><b>Lighting software version</b></p> <p><u>XX</u> . <u>XX</u> . <u>XX</u> . XX</p> <p>↓ ↓ ↓</p> <p><b>Display board version. Motor version. Light board version</b></p>

**8. Channel table**

<b>17 Channels</b>	<b>27 Channels</b>	<b>Features</b>	<b>DMX values</b>	<b>Description</b>
<b>1</b>	<b>1</b>	<b>Y-axis</b>	<b>0-255.</b>	<b>0-270 degrees</b>
<b>2</b>	<b>2</b>	<b>Y-axis fine adjust</b>	<b>0-255.</b>	<b>16bit adjustable</b>
<b>3</b>	<b>3</b>	<b>Focusing</b>	<b>0-255.</b>	<b>Adjust linearly from wide to narrow</b>
<b>4</b>	<b>4</b>	<b>Dimming</b>	<b>0-255.</b>	<b>Do linear dimming from dark to light</b>
<b>5</b>	<b>5</b>	<b>The Strobe of main light</b>	<b>0-7.</b>	<b>Light off</b>
			<b>8-15.</b>	<b>Light source on</b>
			<b>16-131.</b>	<b>Stroboscopic, from slow to fast</b>
			<b>132-139.</b>	<b>Light source on</b>
			<b>140-181.</b>	<b>Slow on and fast off, from slow to fast</b>
			<b>182-189.</b>	<b>Light source on</b>
			<b>190-231.</b>	<b>Fast on and slow off, from slow to fast</b>
			<b>232-239.</b>	<b>Light source on</b>

			<b>240-247.</b>	<b>Random stroboscopic, from slow to fast</b>
			<b>248-255.</b>	<b>Light source on</b>
<b>6</b>	<b>6</b>	<b>White light stroboscopic</b>	<b>0-7.</b>	<b>Light off</b>
			<b>8-15.</b>	<b>Light source on</b>
			<b>16-131.</b>	<b>Stroboscopic, from slow to fast</b>
			<b>132-139.</b>	<b>Light source on</b>
			<b>140-181.</b>	<b>Slow on and fast off, from slow to fast</b>
			<b>182-189.</b>	<b>Light source on</b>
			<b>190-231.</b>	<b>Fast on and slow off, from slow to fast</b>
			<b>232-239.</b>	<b>Light source on</b>
			<b>240-247.</b>	<b>Random stroboscopic, from slow to fast</b>
			<b>248-255.</b>	<b>Light source on</b>
<b>7</b>	<b>7</b>	<b>Color light stroboscopic</b>	<b>0-7.</b>	<b>Light off</b>
			<b>8-15.</b>	<b>Light source on</b>
			<b>16-131.</b>	<b>Stroboscopic, from slow to fast</b>
			<b>132-139.</b>	<b>Light source on</b>
			<b>140-181.</b>	<b>Slow on and fast off, from slow to fast</b>

			<b>182-189.</b>	<b>Light source on</b>
			<b>190-231.</b>	<b>Fast on and slow off, from slow to fast</b>
			<b>232-239.</b>	<b>Light source on</b>
			<b>240-247.</b>	<b>Random stroboscopic, from slow to fast</b>
			<b>248-255.</b>	<b>Light source on</b>
<b>8</b>	<b>8</b>	<b>Special Features</b>	<b>0-29</b>	<b>None</b>
			<b>30-39</b>	<b>Dimming curve: Linear</b>
			<b>40-49</b>	<b>Dimming curve: square rate</b>
			<b>50 - 59.</b>	<b>Dimming curve: inverse square rate</b>
			<b>60-69.</b>	<b>Dimming curve: S curve</b>
			<b>70-139.</b>	<b>None</b>
			<b>140-149.</b>	<b>Y-axis reset</b>
			<b>150-159.</b>	<b>Head motor reset</b>
			<b>160-199.</b>	<b>None</b>
			<b>200-209.</b>	<b>Reset of all motors</b>
			<b>210-219.</b>	<b>Dimming speed: Fast</b>
			<b>220-229.</b>	<b>Dimming speed: Smooth</b>
			<b>230-255.</b>	<b>None</b>
<b>9</b>	<b>9</b>	<b>Main light red</b>	<b>0-255.</b>	<b>From dark to light</b>

<b>10</b>	<b>10</b>	<b>Main light green</b>	<b>0-255.</b>	<b>From dark to light</b>
<b>11</b>	<b>11</b>	<b>Main light blue</b>	<b>0-255.</b>	<b>From dark to light</b>
<b>12</b>	<b>12</b>	<b>Main light white</b>	<b>0-255.</b>	<b>From dark to light</b>
/	<b>13</b>	<b>Main light color temperature</b>	<b>0.</b>	<b>None</b>
			<b>1-255.</b>	<b>8000K-2500K linear color temperature adjustment</b>
	<b>14</b>	<b>Main light color</b>	<b>0 - 7.</b>	<b>None</b>
			<b>8-255.</b>	<b>Built-in color selection</b>
	<b>15</b>	<b>Main light built-in effect</b>	<b>0 - 7.</b>	<b>None</b>
			<b>8-15.</b>	<b>Effect 1</b>
			<b>...</b>	<b>... (8 count one effect)</b>
			<b>184-191.</b>	<b>Effect 23</b>
			<b>192-255.</b>	<b>None</b>
	<b>16</b>	<b>Main light effect speed</b>	<b>0-127.</b>	<b>Slow to fast (no fade-out effect)</b>
			<b>128-255.</b>	<b>Slow to fast (fade out effect)</b>
	<b>17</b>	<b>Strobe white color temperature</b>	<b>0-67.</b>	<b>None</b>
			<b>68-247.</b>	<b>6500K-2600K linear color temperature</b>

				<b>adjustment</b>
			<b>248-255.</b>	<b>None</b>
<b>13</b>	<b>18</b>	<b>Strobe light Cold white</b>	<b>0-255.</b>	<b>Cold white performs linear dimming from dark to light</b>
<b>14</b>	<b>19</b>	<b>Strobe light warm white</b>	<b>0-255.</b>	<b>Warm white performs linear dimming from dark to light</b>
<b>/</b>	<b>20</b>	<b>Stroboscopic of white light built-in effect</b>	<b>0 - 7.</b>	<b>None</b>
			<b>8-15.</b>	<b>Effect 1</b>
			<b>...</b>	<b>... (8 count one effect)</b>
			<b>184-191.</b>	<b>Effect 23</b>
			<b>192-255.</b>	<b>None</b>
	<b>21</b>	<b>White light of strobe effect speed</b>	<b>0-127.</b>	<b>Slow to fast (no fade-out effect)</b>
<b>128-255.</b>			<b>Slow to fast (fade out effect)</b>	
<b>15</b>	<b>22</b>	<b>Strobe of red light</b>	<b>0-255.</b>	<b>Red is dimmed linearly from dark to light</b>
<b>16</b>	<b>23</b>	<b>Strobe of green light</b>	<b>0-255.</b>	<b>Green is dimmed linearly from dark to light</b>
<b>17</b>	<b>24</b>	<b>Strobe of blue light</b>	<b>0-255.</b>	<b>Blue is dimmed linearly from dark to light</b>
<b>/</b>	<b>25</b>	<b>Strobe of color light</b>	<b>0 - 7</b>	<b>None</b>
			<b>8-255.</b>	<b>Built-in color selection</b>
	<b>26</b>		<b>0 - 7</b>	<b>None</b>

		<b>Stroboscopic color light built-in effect</b>	<b>8-15</b>	<b>Effect 1</b>
			<b>...</b>	<b>... (8 count one effect)</b>
			<b>184-191.</b>	<b>Effect 23</b>
			<b>192-255.</b>	<b>There is no</b>
	<b>27</b>	<b>Stroboscopic color light effect speed</b>	<b>0-127.</b>	<b>Slow to fast (no fade-out effect)</b>
			<b>128-255.</b>	<b>Slow to fast (fade out effect)</b>

<b>99 channels</b>	<b>Features</b>	<b>DMX values</b>	<b>Description</b>
<b>1</b>	<b>Y-axis</b>	<b>0-255.</b>	<b>0-270 degrees</b>
<b>2</b>	<b>Y-axis fine adjust</b>	<b>0-255.</b>	<b>16bit adjustable</b>
<b>3</b>	<b>Focusing</b>	<b>0-255.</b>	<b>Adjust linearly from wide to narrow</b>
<b>4</b>	<b>Dimming</b>	<b>0-255.</b>	<b>Do linear dimming from dark to light</b>
<b>5</b>	<b>Strobe of the main light</b>	<b>0 - 7.</b>	<b>Light off</b>
		<b>8-15.</b>	<b>Light source on</b>
		<b>16-131.</b>	<b>Stroboscopic, from slow to fast</b>
		<b>132-139.</b>	<b>Light source on</b>
		<b>140-181.</b>	<b>Slow on and fast off, from slow to fast</b>
		<b>182-189.</b>	<b>Light source on</b>
		<b>190-231.</b>	<b>Fast on and slow off, from slow to fast</b>
		<b>232-239.</b>	<b>Light source on</b>
		<b>240-247.</b>	<b>Random stroboscopic, from slow to fast</b>
		<b>248-255.</b>	<b>Light source on</b>
<b>6</b>	<b>White light stroboscopic</b>	<b>0-7.</b>	<b>Light off</b>
		<b>8-15.</b>	<b>Light source on</b>
		<b>16-131.</b>	<b>Stroboscopic, from slow to fast</b>
		<b>132-139.</b>	<b>Light source on</b>
		<b>140-181.</b>	<b>Slow on and fast off, from slow to fast</b>
		<b>182-189.</b>	<b>Light source on</b>
		<b>190-231.</b>	<b>Fast on and slow off, from slow to fast</b>

		<b>232-239.</b>	<b>Light source on</b>
		<b>240-247.</b>	<b>Random stroboscopic, from slow to fast</b>
		<b>248-255.</b>	<b>Light source on</b>
<b>7</b>	<b>Color light stroboscopic</b>	<b>0 - 7.</b>	<b>Light off</b>
		<b>8-15.</b>	<b>Light source on</b>
		<b>16-131.</b>	<b>Stroboscopic, from slow to fast</b>
		<b>132-139.</b>	<b>Light source on</b>
		<b>140-181.</b>	<b>Slow on and fast off, from slow to fast</b>
		<b>182-189.</b>	<b>Light source on</b>
		<b>190-231.</b>	<b>Fast on and slow off, from slow to fast</b>
		<b>232-239.</b>	<b>Light source on</b>
		<b>240-247.</b>	<b>Random stroboscopic, from slow to fast</b>
		<b>248-255.</b>	<b>Light source on</b>
		<b>8</b>	<b>Special Features</b>
<b>30-39.</b>	<b>Dimming curve: Linear</b>		
<b>40-49.</b>	<b>Dimming curve: square rate</b>		
<b>50 - 59.</b>	<b>Dimming curve: inverse square rate</b>		
<b>60-69.</b>	<b>Dimming curve: S curve</b>		
<b>70-139.</b>	<b>None</b>		
<b>140-149.</b>	<b>Y-axis reset</b>		
<b>150-159.</b>	<b>Head motor reset</b>		
<b>160-199.</b>	<b>None</b>		
<b>200-209.</b>	<b>Reset of all motors</b>		
<b>210-219.</b>	<b>Dimming speed: Fast</b>		
<b>220-229.</b>	<b>Dimming speed: Smooth</b>		
<b>230-255.</b>	<b>None</b>		

9	Main light red 1	0-255.	Red is dimmed linearly from dark to light
10	Main light green 1	0-255.	Green for linear dimming from dark to light
11	Main light Blue 1	0-255.	Blue from dark to light for linear dimming
12	Main light white 1	0-255.	White from dark to light for linear dimming
...	...	...	...
45	Main light red 10	0-255.	Red is dimmed linearly from dark to light
46	Main light green 10	0-255.	Green for linear dimming from dark to light
47	Main light blue 10	0-255.	Blue from dark to light for linear dimming
48	Main light white 10	0-255.	White from dark to light for linear dimming
49	Strobe cold white light 1	0-255.	Cold white performs linear dimming from dark to light
50	Strobe warm White Light 1	0-255.	Warm white performs linear dimming from dark to light
...	...	...	...
95	Strobe cold white light 24	0-255.	Cold white performs linear dimming from dark to light
96	Strobe warm White Light 24	0-255.	Warm white performs linear dimming from dark to light
97	Strobe of the red light	0-255.	Red is dimmed linearly from dark to light

<b>98</b>	<b>Strobe of the green light</b>	<b>0-255.</b>	<b>Green for linear dimming from dark to light</b>
<b>99</b>	<b>Strobe of the blue light</b>	<b>0-255.</b>	<b>Blue from dark to light for linear dimming</b>

<b>108 channels</b>	<b>Features</b>	<b>DMX values</b>	<b>Description</b>
<b>1</b>	<b>Y-axis</b>	<b>0-255.</b>	<b>0-270 degrees</b>
<b>2</b>	<b>Y-axis fine adjust</b>	<b>0-255.</b>	<b>16bit adjustable</b>
<b>3</b>	<b>Focusing</b>	<b>0-255.</b>	<b>Adjust linearly from wide to narrow</b>
<b>4</b>	<b>Dimming</b>	<b>0-255.</b>	<b>Do linear dimming from dark to light</b>
<b>5</b>	<b>Strobe of the main light</b>	<b>0 - 7.</b>	<b>Light off</b>
		<b>8-15.</b>	<b>Light source on</b>
		<b>16-131.</b>	<b>Stroboscopic, from slow to fast</b>
		<b>132-139.</b>	<b>Light source on</b>
		<b>140-181.</b>	<b>Slow on and fast off, from slow to fast</b>
		<b>182-189.</b>	<b>Light source on</b>
		<b>190-231.</b>	<b>Fast on and slow off, from slow to fast</b>
		<b>232-239.</b>	<b>Light source on</b>
		<b>240-247.</b>	<b>Random stroboscopic, from slow to fast</b>
		<b>248-255.</b>	<b>Light source on</b>
<b>6</b>	<b>White light stroboscopic</b>	<b>0-7.</b>	<b>Light off</b>
		<b>8-15.</b>	<b>Light source on</b>
		<b>16-131.</b>	<b>Stroboscopic, from slow to fast</b>
		<b>132-139.</b>	<b>Light source on</b>

		<b>140-181.</b>	<b>Slow on and fast off, from slow to fast</b>
		<b>182-189.</b>	<b>Light source on</b>
		<b>190-231.</b>	<b>Fast on and slow off, from slow to fast</b>
		<b>232-239.</b>	<b>Light source on</b>
		<b>240-247.</b>	<b>Random stroboscopic, from slow to fast</b>
		<b>248-255.</b>	<b>Light source on</b>
<b>7</b>	<b>Color light stroboscopic</b>	<b>0 - 7.</b>	<b>Light off</b>
		<b>8-15.</b>	<b>Light source on</b>
		<b>16-131.</b>	<b>Stroboscopic, from slow to fast</b>
		<b>132-139.</b>	<b>Light source on</b>
		<b>140-181.</b>	<b>Slow on and fast off, from slow to fast</b>
		<b>182-189.</b>	<b>Light source on</b>
		<b>190-231.</b>	<b>Fast on and slow off, from slow to fast</b>
		<b>232-239.</b>	<b>Light source on</b>
		<b>240-247.</b>	<b>Random stroboscopic, from slow to fast</b>
		<b>248-255.</b>	<b>Light source on</b>
<b>8</b>	<b>Special Features</b>	<b>0-29.</b>	<b>None</b>
		<b>30-39.</b>	<b>Dimming curve: Linear</b>
		<b>40-49.</b>	<b>Dimming curve: square rate</b>

		<b>50 - 59.</b>	<b>Dimming curve: inverse square rate</b>
		<b>60-69.</b>	<b>Dimming curve: S curve</b>
		<b>70-139.</b>	<b>None</b>
		<b>140-149.</b>	<b>Y-axis reset</b>
		<b>150-159.</b>	<b>Head motor reset</b>
		<b>160-199.</b>	<b>None</b>
		<b>200-209.</b>	<b>Reset of all motors</b>
		<b>210-219.</b>	<b>Dimming speed: Fast</b>
		<b>220-229.</b>	<b>Dimming speed: Smooth</b>
		<b>230-255.</b>	<b>None</b>
<b>9</b>	<b>Main light red 1</b>	<b>0-255.</b>	<b>Red is dimmed linearly from dark to light</b>
<b>10</b>	<b>Main light green 1</b>	<b>0-255.</b>	<b>Green for linear dimming from dark to light</b>
<b>11</b>	<b>Main light Blue 1</b>	<b>0-255.</b>	<b>Blue from dark to light for linear dimming</b>
<b>12</b>	<b>Main light white 1</b>	<b>0-255.</b>	<b>White from dark to light for linear dimming</b>
<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>
<b>45</b>	<b>Main light red 10</b>	<b>0-255.</b>	<b>Red is dimmed linearly from dark to light</b>
<b>46</b>	<b>Main light green 10</b>	<b>0-255.</b>	<b>Green for linear dimming from dark to light</b>

47	Main light blue 10	0-255.	Blue from dark to light for linear dimming
48	Main light white 10	0-255.	White from dark to light for linear dimming
49	Strobe cold white light 1	0-255.	Cold white performs linear dimming from dark to light
50	Strobe warm White Light 1	0-255.	Warm white performs linear dimming from dark to light
...	...	...	...
71	Strobe cold white light 12	0-255.	Cold white performs linear dimming from dark to light
72	Strobe warm White Light 12	0-255.	Warm white performs linear dimming from dark to light
73	Strobe of the red light 1	0-255.	Red is dimmed linearly from dark to light
74	Strobe of the green light 1	0-255.	Green for linear dimming from dark to light
75	Strobe of the blue light 1	0-255.	Blue from dark to light for linear dimming
...	...	...	...
106	Strobe of the red light 12	0-255.	Red is dimmed linearly from dark to light
107	Strobe of the green light 12	0-255.	Green for linear dimming from dark to light
108	Strobe of the blue light 12	0-255.	Blue from dark to light for linear dimming

<b>168 channels</b>	<b>Features</b>	<b>DMX values</b>	<b>Description</b>
<b>1</b>	<b>Y-axis</b>	<b>0-255.</b>	<b>0-270 degrees</b>
<b>2</b>	<b>Y-axis fine adjust</b>	<b>0-255.</b>	<b>16bit adjustable</b>
<b>3</b>	<b>Focusing</b>	<b>0-255.</b>	<b>Adjust linearly from wide to narrow</b>
<b>4</b>	<b>Dimming</b>	<b>0-255.</b>	<b>Do linear dimming from dark to light</b>
<b>5</b>	<b>Strobe of the main light</b>	<b>0 - 7.</b>	<b>Light off</b>
		<b>8-15.</b>	<b>Light source on</b>
		<b>16-131.</b>	<b>Stroboscopic, from slow to fast</b>
		<b>132-139.</b>	<b>Light source on</b>
		<b>140-181.</b>	<b>Slow on and fast off, from slow to fast</b>
		<b>182-189.</b>	<b>Light source on</b>
		<b>190-231.</b>	<b>Fast on and slow off, from slow to fast</b>
		<b>232-239.</b>	<b>Light source on</b>
		<b>240-247.</b>	<b>Random stroboscopic, from slow to fast</b>
		<b>248-255.</b>	<b>Light source on</b>
<b>6</b>	<b>White light stroboscopic</b>	<b>0-7.</b>	<b>Light off</b>
		<b>8-15.</b>	<b>Light source on</b>
		<b>16-131.</b>	<b>Stroboscopic, from slow to fast</b>
		<b>132-139.</b>	<b>Light source on</b>
		<b>140-181.</b>	<b>Slow on and fast off, from slow to fast</b>

		<b>182-189.</b>	<b>Light source on</b>
		<b>190-231.</b>	<b>Fast on and slow off, from slow to fast</b>
		<b>232-239.</b>	<b>Light source on</b>
		<b>240-247.</b>	<b>Random stroboscopic, from slow to fast</b>
		<b>248-255.</b>	<b>Light source on</b>
<b>7</b>	<b>Color light stroboscopic</b>	<b>0 - 7.</b>	<b>Light off</b>
		<b>8-15.</b>	<b>Light source on</b>
		<b>16-131.</b>	<b>Stroboscopic, from slow to fast</b>
		<b>132-139.</b>	<b>Light source on</b>
		<b>140-181.</b>	<b>Slow on and fast off, from slow to fast</b>
		<b>182-189.</b>	<b>Light source on</b>
		<b>190-231.</b>	<b>Fast on and slow off, from slow to fast</b>
		<b>232-239.</b>	<b>Light source on</b>
		<b>240-247.</b>	<b>Random stroboscopic, from slow to fast</b>
		<b>248-255.</b>	<b>Light source on</b>
<b>8</b>	<b>Special Features</b>	<b>0-29.</b>	<b>None</b>
		<b>30-39.</b>	<b>Dimming curve: Linear</b>
		<b>40-49.</b>	<b>Dimming curve: square rate</b>
		<b>50 - 59.</b>	<b>Dimming curve: inverse square rate</b>
		<b>60-69.</b>	<b>Dimming curve: S curve</b>
		<b>70-139.</b>	<b>None</b>
		<b>140-149.</b>	<b>Y-axis reset</b>

		<b>150-159.</b>	<b>Head motor reset</b>
		<b>160-199.</b>	<b>None</b>
		<b>200-209.</b>	<b>Reset of all motors</b>
		<b>210-219.</b>	<b>Dimming speed: Fast</b>
		<b>220-229.</b>	<b>Dimming speed: Smooth</b>
		<b>230-255.</b>	<b>None</b>
<b>9</b>	<b>Main light red 1</b>	<b>0-255.</b>	<b>Red is dimmed linearly from dark to light</b>
<b>10</b>	<b>Main light green 1</b>	<b>0-255.</b>	<b>Green for linear dimming from dark to light</b>
<b>11</b>	<b>Main light Blue 1</b>	<b>0-255.</b>	<b>Blue from dark to light for linear dimming</b>
<b>12</b>	<b>Main light white 1</b>	<b>0-255.</b>	<b>White from dark to light for linear dimming</b>
<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>
<b>45</b>	<b>Main light red 10</b>	<b>0-255.</b>	<b>Red is dimmed linearly from dark to light</b>
<b>46</b>	<b>Main light green 10</b>	<b>0-255.</b>	<b>Green for linear dimming from dark to light</b>
<b>47</b>	<b>Main light blue 10</b>	<b>0-255.</b>	<b>Blue from dark to light for linear dimming</b>
<b>48</b>	<b>Main light white 10</b>	<b>0-255.</b>	<b>White from dark to light for linear dimming</b>
<b>49</b>	<b>Strobe cold white light 1</b>	<b>0-255.</b>	<b>Cold white performs linear dimming from dark to light</b>
<b>50</b>	<b>Strobe warm White Light 1</b>	<b>0-255.</b>	<b>Warm white performs linear dimming from dark to light</b>

...	...	...	...
95	Strobe cold white light 24	0-255.	Cold white performs linear dimming from dark to light
96	Strobe warm White Light 24	0-255.	Warm white performs linear dimming from dark to light
97	Strobe of the red light 1	0-255.	Red is dimmed linearly from dark to light
98	Strobe of the green light 1	0-255.	Green for linear dimming from dark to light
99	Strobe of the blue light 1	0-255.	Blue from dark to light for linear dimming
...	...	...	...
166	Strobe of the red light 24	0-255.	Red is dimmed linearly from dark to light
167	Strobe of the green light 24	0-255.	Green for linear dimming from dark to light
168	Strobe of the blue light 24	0-255.	Blue from dark to light for linear dimming

<b>170 channels</b>	<b>Features</b>	<b>DMX values</b>	<b>Description</b>
<b>1</b>	<b>Y-axis</b>	<b>0-255.</b>	<b>0-270 degrees</b>
<b>2</b>	<b>Y-axis fine adjust</b>	<b>0-255.</b>	<b>16bit adjustable</b>
<b>3</b>	<b>Focusing</b>	<b>0-255.</b>	<b>Adjust linearly from wide to narrow</b>
<b>4</b>	<b>Dimming</b>	<b>0-255.</b>	<b>Do linear dimming from dark to light</b>
<b>5</b>	<b>Dimming of the white light stroboscopic</b>	<b>0-255.</b>	<b>Do linear dimming from dark to light</b>
<b>6</b>	<b>Dimming of the color light stroboscopic</b>	<b>0-255.</b>	<b>Do linear dimming from dark to light</b>
<b>7</b>	<b>Strobe of the main light</b>	<b>0 - 7.</b>	<b>Light off</b>
		<b>8-15.</b>	<b>Light source on</b>
		<b>16-131.</b>	<b>Stroboscopic, from slow to fast</b>
		<b>132-139.</b>	<b>Light source on</b>
		<b>140-181.</b>	<b>Slow on and fast off, from slow to fast</b>
		<b>182-189.</b>	<b>Light source on</b>
		<b>190-231.</b>	<b>Fast on and slow off, from slow to fast</b>
		<b>232-239.</b>	<b>Light source on</b>
		<b>240-247.</b>	<b>Random stroboscopic, from slow to fast</b>
		<b>248-255.</b>	<b>Light source on</b>
<b>8</b>	<b>White light stroboscopic</b>	<b>0-7.</b>	<b>Light off</b>
		<b>8-15.</b>	<b>Light source on</b>
		<b>16-131.</b>	<b>Stroboscopic, from slow to fast</b>
		<b>132-139.</b>	<b>Light source on</b>
		<b>140-181.</b>	<b>Slow on and fast off, from slow to fast</b>

		<b>182-189.</b>	<b>Light source on</b>
		<b>190-231.</b>	<b>Fast on and slow off, from slow to fast</b>
		<b>232-239.</b>	<b>Light source on</b>
		<b>240-247.</b>	<b>Random stroboscopic, from slow to fast</b>
		<b>248-255.</b>	<b>Light source on</b>
<b>9</b>	<b>Color light stroboscopic</b>	<b>0 - 7.</b>	<b>Light off</b>
		<b>8-15.</b>	<b>Light source on</b>
		<b>16-131.</b>	<b>Stroboscopic, from slow to fast</b>
		<b>132-139.</b>	<b>Light source on</b>
		<b>140-181.</b>	<b>Slow on and fast off, from slow to fast</b>
		<b>182-189.</b>	<b>Light source on</b>
		<b>190-231.</b>	<b>Fast on and slow off, from slow to fast</b>
		<b>232-239.</b>	<b>Light source on</b>
		<b>240-247.</b>	<b>Random stroboscopic, from slow to fast</b>
		<b>248-255.</b>	<b>Light source on</b>
<b>10</b>	<b>Special Features</b>	<b>0-29.</b>	<b>None</b>
		<b>30-39.</b>	<b>Dimming curve: Linear</b>
		<b>40-49.</b>	<b>Dimming curve: square rate</b>
		<b>50 - 59.</b>	<b>Dimming curve: inverse square rate</b>
		<b>60-69.</b>	<b>Dimming curve: S curve</b>
		<b>70-139.</b>	<b>None</b>
		<b>140-149.</b>	<b>Y-axis reset</b>
		<b>150-159.</b>	<b>Head motor reset</b>
		<b>160-199.</b>	<b>None</b>
		<b>200-209.</b>	<b>Reset of all motors</b>
		<b>210-219.</b>	<b>Dimming speed: Fast</b>
		<b>220-229.</b>	<b>Dimming speed: Smooth</b>

		<b>230-255.</b>	<b>None</b>
<b>11</b>	<b>Main light red 1</b>	<b>0-255.</b>	<b>Red is dimmed linearly from dark to light</b>
<b>12</b>	<b>Main light green 1</b>	<b>0-255.</b>	<b>Green for linear dimming from dark to light</b>
<b>13</b>	<b>Main light Blue 1</b>	<b>0-255.</b>	<b>Blue from dark to light for linear dimming</b>
<b>14</b>	<b>Main light white 1</b>	<b>0-255.</b>	<b>White from dark to light for linear dimming</b>
<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>
<b>47</b>	<b>Main light red 10</b>	<b>0-255.</b>	<b>Red is dimmed linearly from dark to light</b>
<b>48</b>	<b>Main light green 10</b>	<b>0-255.</b>	<b>Green for linear dimming from dark to light</b>
<b>49</b>	<b>Main light blue 10</b>	<b>0-255.</b>	<b>Blue from dark to light for linear dimming</b>
<b>50</b>	<b>Main light white 10</b>	<b>0-255.</b>	<b>White from dark to light for linear dimming</b>
<b>51</b>	<b>Strobe cold white light 1</b>	<b>0-255.</b>	<b>Cold white performs linear dimming from dark to light</b>
<b>52</b>	<b>Strobe warm White Light 1</b>	<b>0-255.</b>	<b>Warm white performs linear dimming from dark to light</b>
<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>
<b>97</b>	<b>Strobe cold white light 24</b>	<b>0-255.</b>	<b>Cold white performs linear dimming from dark to light</b>
<b>98</b>	<b>Strobe warm White Light 24</b>	<b>0-255.</b>	<b>Warm white performs linear dimming from dark to light</b>

<b>99</b>	<b>Strobe of the red light 1</b>	<b>0-255.</b>	<b>Red is dimmed linearly from dark to light</b>
<b>100</b>	<b>Strobe of the green light 1</b>	<b>0-255.</b>	<b>Green for linear dimming from dark to light</b>
<b>101</b>	<b>Strobe of the blue light 1</b>	<b>0-255.</b>	<b>Blue from dark to light for linear dimming</b>
<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>
<b>168</b>	<b>Strobe of the red light 24</b>	<b>0-255.</b>	<b>Red is dimmed linearly from dark to light</b>
<b>169</b>	<b>Strobe of the green light 24</b>	<b>0-255.</b>	<b>Green for linear dimming from dark to light</b>
<b>170</b>	<b>Strobe of the blue light 24</b>	<b>0-255.</b>	<b>Blue from dark to light for linear dimming</b>

## **9. Product maintenance and cleaning**

**Please pay attention to the following points when testing this product:**

- 1. All screws and parts for mounting the product must be tightly connected and not rusted.**
- 2. Enclosures, lenses, fixings and mounting sites (e.g. ceilings, hangers, trusses, etc.) must not be deformed.**
- 3. Mechanical moving parts must not be worn and rotated without balance.**
- 4. The power cord should not have any damage, material peeling or bruises, etc.**

**The installation and use of the product must be carried out by trained professional and technical personnel, and must ensure that safety hazards are eliminated.**

**Note: Please unplug the power cord before product maintenance!!**

**In order to keep the product in good condition and prolong its service life, we recommend regular cleaning of the product.**

- 1. Clean the external lens and internal lens of the product every week to prevent the light output of the product from weakening due to lens dust accumulation.**
- 2. Clean the fan every week.**
- 3. Every three months by a professional electrical engineer to the product of the detailed circuit inspection, to ensure that the circuit contacts are good, in case of overheating caused by aging circuit contacts.**

**We recommend that the product should be cleaned regularly, please be careful not to use wet or linen, and never use alcohol or solvents for cleaning.**

**This product does not come with replacement parts, please refer to the "Installation Instructions" section.**

**If you need any spare parts, please purchase them from your local dealer.**

**Light source:**

**Beam end:**

**10 x 60W RGBW LED**

**Strobe terminal:**

**96 x 3W CW LED**

**96 x 3W WW LED**

**96 x 0.5W RGB LED**

**White light color temperature: 6,300K**

**Light lux: 22,400 lm**

**LED life expectancy: 20,000 hours**

**Optical system**

**Zoom angle:**

**Beam angle: 2.8°-31° (beam end)**

**Spot angle: 5°-46° (beam end)**

**Control and procedures**

**5 keys**

**Control panel: LCD display**

**Control protocol: DMX512, RDM**

**DMX channel mode: 7 types**

**Channel mode: 17/27/99/108/168/8+100/8+160/170 channel**

**Software upgrade: update the software through DMX connection**

**Y-axis**

**Y-axis operation angle: 202°**

**Electrical and interface**

**Input power supply: 180-240V~ 50/60Hz**

**Power: 800 W**

**Power outlet: power connector input/output**

**Signal input/output: three-core or five-core cannon head socket, RJ45**