

# CLF LEDBAR EFF

## MANUAL

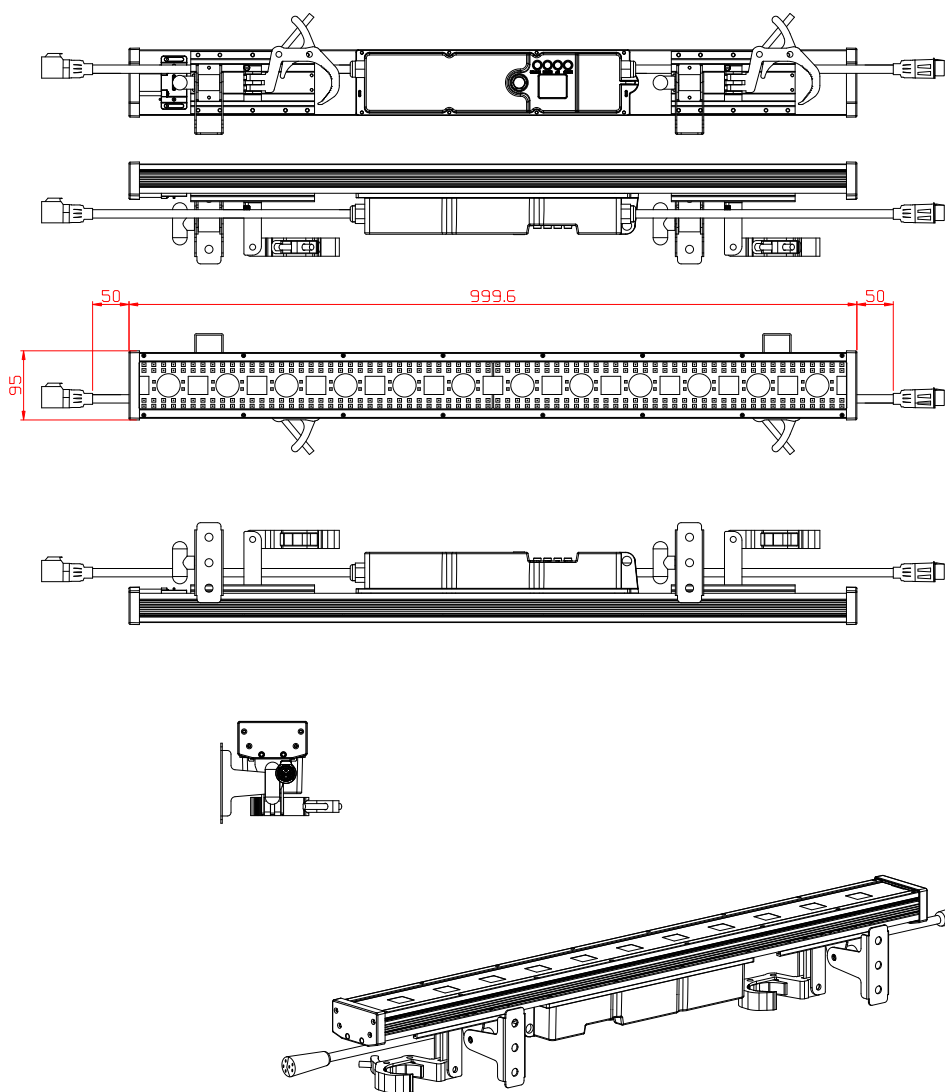


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# DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETERS



# SAFETY INSTRUCTION



## WARNING!

**Read the safety precautions in this section before installing, powering, operating or servicing this product**

The following symbols are used to identify important safety information on the product and in this manual:



**DANGER!**  
Safety hazard.  
Risk of severe injury or death.



**DANGER!**  
Hazardous voltage. Risk of lethal or severe electric shock.



**WARNING!**  
Fire hazard.



**WARNING!**  
LED light emission. Risk of eye injury.



**WARNING!**  
Burn hazard. Hot surface. Do not touch.



**WARNING!**  
Wear protective eyewear.



**WARNING!**  
Refer to user manual.



**Warning!** Risk Group 2 (Moderate-Risk) LED product according to EN 62471.

Do not look into the beam at short distance of the of the product.

Do not view the light output with optical instruments or any device that may concentrate the beam.



This product is for professional use only. It is not for household use.

This product presents risks of severe injury or death due to fire and burn hazards, electric shock and falls.

Read this manual before installing, powering or servicing the fixture, follow the safety precautions listed below and observe all warnings in this manual and printed on the fixture. If you have questions about how to operate the fixture safely, please contact your supplier.



### PROTECTION FROM ELECTRIC SHOCK

- Disconnect the fixture from AC power before removing or installing any cover or part and when not in use.
- Always ground (earth) the fixture electrically.
- Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault (earth-fault) protection.
- Before using the fixture, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- Power input and throughput cables must be rated 20 A minimum, have three conductors 1.5 mm<sup>2</sup> (16 AWG) minimum conductor size and an outer cable diameter of 5 - 15 mm. Cables must be hard usage type (SJT or equivalent) and heat-resistant to 90° C minimum.
- Use only PowerCON TRUE 1® cable connectors to connect to power input sockets. Use only PowerCON TRUE 1® cable connectors to connect to power through put sockets.
- Isolate the fixture from power immediately if the power plug or any seal, cover, cable, or other component is damaged, defective, deformed, wet or showing signs of overheating. Do not reapply power until repairs have been completed.
- Refer any service operation not described in this manual to a qualified technician.
- Socket outlets used to supply fixture fixtures with power or external power switches must be located near the fixtures and easily accessible so that the fixtures can easily be disconnected from power.



## PROTECTION FROM BURNS AND FIRE



- The exterior of the fixture becomes hot during use. Avoid contact by persons and materials. Allow the fixture to cool for at least 5 minutes before handling.
- Keep all combustible materials (e.g. fabric, wood, paper) at least 100 mm away from the fixture.
- Keep flammable materials well away from the fixture.
- Ensure that there is free and unobstructed airflow around the fixture.
- Do not illuminate surfaces within 200 mm of the fixture.
- Do not attempt to bypass thermostatic switches or fuses.
- If you relay power from one fixture to another using power throughput sockets, do not connect more than ten fixture fixtures in total to each other in an interconnected chain.
- Connect only other fixture fixtures to fixture power throughput sockets.
- Do not connect any other type of device to these sockets.
- Do not stick filters, masks or other materials onto any optical component.
- Do not modify the fixture in any way not described in this manual.



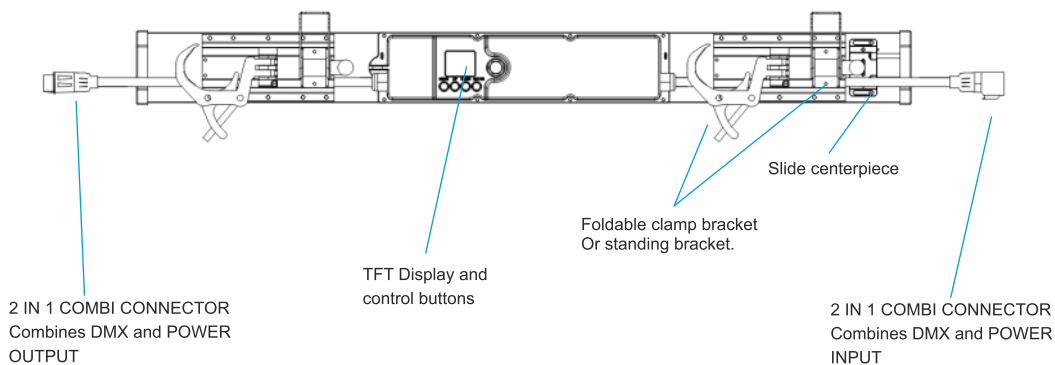
## PROTECTION FROM INJURY



- Do not look directly into the product's light output.
- Do not look at operating lamp. Eye injury may result.
- Do not look at the light output with magnifiers, telescopes, binoculars or similar optical instruments that may concentrate the light output.
- Ensure that persons are not looking directly into the front of the fixture when the product lights up suddenly. This can happen when power is applied, when the product receives a DMX signal, or when certain control menu items are selected.
- To minimize the risk of eye irritation or injury, disconnect the fixture from power at all times when the fixture is not in use and provide well-lit conditions to reduce the pupil diameter of anyone working on or near the fixture.
- Fasten the fixture securely to a fixed surface or structure when in use. The fixture is not portable when installed.
- Ensure that any supporting structure and/or hardware used can hold at least 10 times the weight of all the devices they support.
- Allow enough clearance around the head to ensure that it cannot collide with an object or another fixture when it moves.
- Check that all external covers and rigging hardware are securely fastened.
- Block access below the work area and work from a stable platform whenever installing, servicing or moving the fixture.
- Do not operate the fixture with missing or damaged covers, shields or any optical component.



# FIXTURE OVERVIEW



# INTRODUCTION

## POWERFUL AND VERSATILE OUTDOOR LED BAR

- Middle: 12 x RGB-WW 4in1 led. Strobe: 48 x white led. Both sides: 288 x RGBA led
- IP65 rating for dustproof and outdoor use
- Combined power and data cabling
- Extensive range of built-in effects
- Multiple DMX modes for creative usage

## USING FOR THE FIRST TIME



**Warning!** Read “Safety Information” before installing, powering, operating or servicing the fixture. Before applying power to the fixture:

Check that the local AC mains power source is within the fixture’s power voltage and frequency ranges.

See “Power cables and power plug” on this page .

# AC POWER



**Warning!** Read “Safety Information” starting on before connecting the fixtures to ac main power.

**Warning!** For protection from electric shock, the fixture must be grounded (earthed).



**Warning!** Socket outlets or external power switches used to supply the fixture with power must be located near the fixture and easily accessible so that the fixtures can easily be disconnected from power.

**Important!** Do not insert or remove Combined power and data cable to apply or cut power, as this may cause arcing at the terminals that will damage the connectors.

**Important!** Do not use an external dimming system to supply power to the fixture, as this may cause damage to the fixture that is not covered by the product warranty.

Only replace the fixture Combined power and data cable with CLF approved spareparts.



## POWER VOLTAGE



**Warning!** Check that the voltage range specified on the fixtures serial number label matches the local AC mains power voltage before applying power to the fixture.

The fixtures accepts AC mains power at 100-240 V nominal, 50/60 Hz. Do not apply AC mains power to the fixture at any other voltage than specified.

# POWER CABLES

This product uses a special Combined power and data cable system. Only use feed in, input, output, daisy chain cables supplied by this product and no other brands

## RELAYING POWER AND DATA TO OTHER DEVICES

Warning! Power can be relayed to another device via the Combined power and data cable system.

If you daisy chain the fixtures in a chain so that they all draw AC mains power via the first fixture, certain points must be respected:

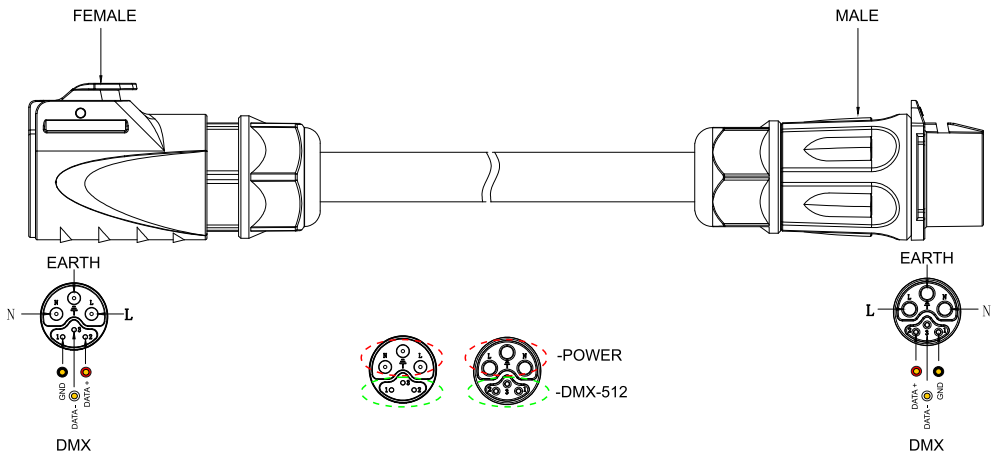
- AC mains power voltage is 230V, do not connect more than 10 LEDBAR EFF fixtures in total ( including the first fixture ) to AC
- Always make sure the Lock is properly locked to maintain problemless working.

## TIPS FOR RELIABLE DATA TRANSMISSION

To connect the fixture to data:

1. Make sure the connector are always clean to ensure the proper DMX transmission output from the controller.

Connection method: snap-on quick connection.  
Protection level: IP65/IP67  
Wiring method: weldingWire  
Rated current: 20A  
Rated voltage: 230V  
Working temperature: -20°C to +80°C  
Withstand voltage (AC.V): 1000V/1min



# PHYSICAL INSTALLATION



Warning! The fixture must be either fastened to a flat surface such as a stage or wall, or clamped to a truss or similar structure in any orientation using a rigging clamp.

Warning! If the fixture can cause injury or damage if it falls, attach an approved safety cable to one of the safety cable attachment points on the base (see "Fixture overview").

Check that all surfaces to be illuminated are minimum 200 mm. from the fixture, that combustible materials (wood, fabric, paper, etc.) are minimum 100 mm. from the fixture, that there is free airflow around the fixture and that there are no flammable materials nearby.

## FASTENING THE FIXTURE TO A FLAT SURFACE

The fixture can be fastened to a fixed flat surface that is oriented at any angle. Check that the surface can support at least 10 times the weight of all fixtures and equipment to be installed on it.



Warning! The supporting surface must be hard and flat or cooling may be blocked, which will cause overheating. Fasten the fixture securely. Do not stand it on a surface or leave it where it can be moved or can fall over. Attach a securely anchored safety cable to the safety cable attachment point (see "Fixture overview") if the fixture is to be installed in any location where it may fall and cause injury or damage if the primary attachment fails.

1. Block access under the work area. Working from a stable platform, hang the fixture on the truss with the arrow on the base towards the area to be illuminated. Tighten the rigging clamp.
2. Secure the fixture against clamp failure with a secondary attachment such as an approved safety cable that is rated for the weight of the fixture using one of the attachment points at the edges of the base (see "Fixture overview"). Do not use any other part of the fixture as a safety cable attachment point.

The installation of the fixture has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.

The installation must always be secured with a secondary safety attachment, e.g. an appropriate catch net. This secondary safety attachment must be constructed in a way that no part of the installation can fall down if the main attachment fails.

When rigging, derigging or servicing the fixture staying in the area below the installation place, on bridges, under high working places and other endangered areas is forbidden.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert before taking into operation for the first time and after changes before taking into operation another time.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert after every four year in the course of an acceptance test.

The operator has to make sure that safety-relating and machine-technical installations are approved by a skilled person once a year.

The fixture should be installed outside areas where persons may walk by or be seated.

**IMPORTANT! OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE**, including (but not limited to) calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury or damage to property. The fixture has to be installed out of the reach of people.



If the fixture shall be lowered from the ceiling or high joists, professional trussing systems have to be used. The fixture must never be fixed swinging freely in the room.

**Caution:** Fixture may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the moving head!

Before rigging make sure that the installation area can hold a minimum point load of 10 times the fixture's weight.

When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in a distance of min. 0.5 m.

Use an appropriate clamp to rig the fixture on the truss.

Follow the instructions mentioned at the bottom of the base.

Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the fixtures is secure.



The fixture can be placed directly on the stage floor or rigged on a truss without altering its operation characteristics .

For securing the fixture to the truss, install a safety wire which can hold at least 10 times the weight of the fixture. Use only the safety wire with a snap hook with screw lock gate. Fasten the safety cable in the attachment point and around the truss as shown on the picture below.

# OUTDOOR IP-RATED FIXTURES

CLF products are applied to official classified IP norm levels. For this product the IP rate is IP65 when using the covers for the chassis parts. IP65 means according classified norm: shielded against dust and pressurized water from any side. Typical use for outdoor rated stage events with normal weather acceptance. So no heavy rain, because then the water pressure over exceeds the IP norm.



## CONDENSATION/MOISTURE INSIDE HOUSING

Because of high humidity levels during production condensation can occur inside the housing. This is mostly visible on the coldest parts of the fixture, like the front glass or display. To prevent this problem we work with special conditioned areas for outdoor fixtures. Because of the breathing air valves it is still possible to get humidity inside the fixture. This will evaporate slowly. Do not put wet fixtures in a flightcase, this will help humidity enter the fixture.

## FIXTURES TEMPERATURE SPECIFICATION

Make sure the fixture is used within its working temperature range. Outside this range we cannot guarantee correct operation.

## TEMPORARY USAGE:

Stage event equipment is designed with temporary use in mind. Our product purpose is for theatre, festival, (disco) clubs and indoor & outdoor concerts. Long term use is possible but keep in mind that it can bring damage to aging materials and affect the coated surface (i.e. stainless steel). Rubber sealings will be negatively affected after long-term UV exposure and should be checked by qualified service technicians over time.

Tighten screws too hard will also affect the IP-rating.

# SETUP

Warning! Read “Safety Information” before installing, powering or operating the fixture.

## CONTROL PANEL AND MENU NAVIGATION

The onboard control panel and backlit graphic display are used to set the fixture's DMX address, configure individual fixture settings (personality), read out data and execute service utilities. See “Onboard control menus” for a complete list of menus and commands.

Using the control buttons

- To enter the menu select [MENU].
- Press [UP] and [DOWN] to scroll within a menu or adjust values.
- To enter a menu, select a function or apply a selection, press [ENTER].
- To escape a function or move back one level in the menu structure, press [MENU].
- Press [UP] and [DOWN] together to rotate display

## DMX ADDRESS SETTING

The DMX address, also known as the start channel, is the first channel used to receive instructions from the controller. For independent control, each fixture must be assigned its to a separate channel. The DMX address can be configured as by using the DMX ADDRESS menu in the control panel. For setting the DMX address press [ENTER] before you can change the address.

- The fixture is fully RDM ready. So when you are using a RDM ready console you can address the unit and read out its complete status. For RDM functions please refer to the ANSI/ESTA E1.20-2006 standard

CONTROL MODE

DMX control mode is selected in the CONTROL MODE menu. The fixture can be controlled with 15 DMX control modes:

|                              | 12CH-simple | 2 SECTION control | 22 ch Macro control | 2 SECTION + control | 28CH full macro | 3 SECTION control | 3 SECTION + control | 38ch full macro + background | 4 SECTION control | 4 SECTION + control | 6 SECTION control | 6 SECTION + control | PIXEL 12 SECTION | PURE PIXEL ALL | PURE PIXEL ALL + DIM |
|------------------------------|-------------|-------------------|---------------------|---------------------|-----------------|-------------------|---------------------|------------------------------|-------------------|---------------------|-------------------|---------------------|------------------|----------------|----------------------|
| summary:                     | 12CH        | 21CH              | 25ch                | 25ch                | 30ch            | 31CH              | 34ch                | 38CH                         | 39Ch              | 43CH                | 57Ch              | 61Ch                | 115CH            | 155ch          | 163CH                |
| MODE                         | V           | V                 | V                   | V                   | V               | V                 | V                   | V                            | V                 | V                   | V                 | V                   | V                | V              | V                    |
| MAIN Dimmer                  | V           | V                 | V                   | V                   | V               | V                 | V                   | V                            | V                 | V                   | V                 | V                   | V                | V              | V                    |
| Dimmer 16 bit                | V           | V                 | V                   | V                   | V               | V                 | V                   | V                            | V                 | V                   | V                 | V                   | V                | V              | V                    |
| strobe                       |             |                   |                     |                     |                 |                   |                     |                              |                   |                     |                   |                     |                  |                |                      |
| DOT master DIMMER            |             |                   |                     |                     | V               |                   | V                   | V                            |                   |                     |                   |                     |                  |                |                      |
| DOT Strobe                   |             |                   |                     |                     | V               |                   | V                   | V                            |                   |                     |                   |                     |                  |                |                      |
| DOT Individual control       |             | V (2section)      |                     | V (2section)        |                 | V (3section)      | V (3section)        |                              | V (4 section)     | V (4 section)       | V (6section)      | V (6section)        | V (12 section)   | V (12 section) | V (12 section)       |
| DOT RGBW 4 ch dimming        | V           |                   | V                   |                     | V               |                   | V                   | V                            |                   |                     |                   |                     |                  |                |                      |
| DOT RGBW macro color         |             |                   | V                   |                     | V               |                   | V                   | V                            |                   |                     |                   |                     |                  |                |                      |
| DOT RGBW macros              |             |                   | V                   |                     | V               |                   | V                   | V                            |                   |                     |                   |                     |                  |                |                      |
| DOT RGBW fix position macro  |             |                   | V                   |                     | V               |                   | V                   | V                            |                   |                     |                   |                     |                  |                |                      |
| DOT RGBW move macro speed    |             |                   | V                   |                     | V               |                   | V                   | V                            |                   |                     |                   |                     |                  |                |                      |
| DOT BACKGROUND option        |             |                   |                     |                     |                 |                   |                     | V                            |                   |                     |                   |                     |                  |                |                      |
|                              |             |                   |                     |                     |                 |                   |                     |                              |                   |                     |                   |                     |                  |                |                      |
| Strobe master dimmer         | V           |                   |                     | V                   | V               |                   | V                   | V                            |                   | V                   |                   | V                   | V                |                | V                    |
| Strobe dimming               |             |                   | V                   | V                   | V               |                   | V                   | V                            |                   | V                   |                   | V                   | V                |                |                      |
| Strobe individual control    |             | V (2sections)     |                     | V (2section)        |                 | V (3section)      | V (3section)        |                              | V (4 section)     | V (4 section)       | V (6section)      | V (6section)        | V (12 section)   | V (12 section) | V (12 section)       |
| Strobe Strobe                |             |                   |                     |                     | V               |                   | V                   | V                            |                   |                     |                   |                     |                  |                |                      |
| Strobe move macro            |             |                   | V                   |                     | V               |                   | V                   | V                            |                   |                     |                   |                     |                  |                |                      |
| Strobe move macro speed      |             |                   | V                   |                     | V               |                   | V                   | V                            |                   |                     |                   |                     |                  |                |                      |
|                              |             |                   |                     |                     |                 |                   |                     |                              |                   |                     |                   |                     |                  |                |                      |
| SIDE Master dimmer           |             |                   |                     | V                   | V               |                   | V                   | V                            |                   | V                   |                   | V                   | V                |                | V                    |
| Side strobe                  |             |                   |                     | V                   | V               |                   | V                   | V                            |                   | V                   |                   | V                   | V                |                | V                    |
| Side individual control      |             | V (2 sections)    |                     | V (2section)        |                 | V (3section)      | V (3section)        |                              | V (4section)      | V (4section)        | V (6section)      | V (6section)        | V (12 section)   | V (24section)  | V (24section)        |
| SIDE RGBA 4 CH dimming       | V           |                   | V                   |                     | V               |                   | V                   | V                            |                   |                     |                   |                     |                  |                |                      |
| SIDE RGBA macro color        |             |                   | V                   |                     | V               |                   | V                   | V                            |                   |                     |                   |                     |                  |                |                      |
| SIDE RGBA fix position macro |             |                   | V                   |                     | V               |                   | V                   | V                            |                   |                     |                   |                     |                  |                |                      |
| SIDE RGBA move macro         |             |                   | V                   |                     | V               |                   | V                   | V                            |                   |                     |                   |                     |                  |                |                      |
| SIDE RGBA move macro speed   |             |                   | V                   |                     | V               |                   | V                   | V                            |                   |                     |                   |                     |                  |                |                      |
| SIDE RGBA BACKGROUND option  |             |                   |                     |                     |                 |                   |                     | V                            |                   |                     |                   |                     |                  |                |                      |
| FUNCTION channel             | V           | V                 | V                   | V                   | V               | V                 | V                   | V                            | V                 | V                   | V                 | V                   | V                | V              | V                    |

# CONTROL PANEL

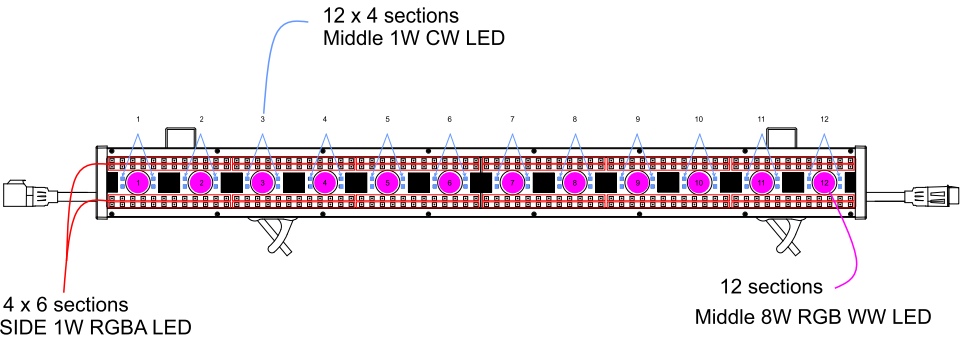
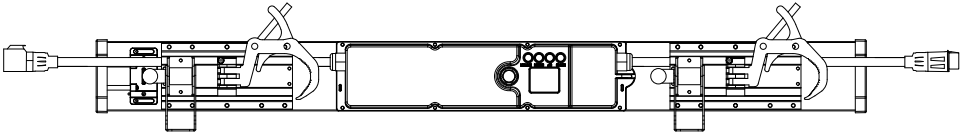
Here you can set all functions for the fixture.

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MENU    | Sound Sensitivity = 0-100 Sound sensitivity adjustment<br>DMX HOLD = DMX hold / No DMX hold<br>Factory Load = Yes / No<br>Reset = Yes / No<br>BL Blinking = Yes / No<br>Pixel order = Normal / Inverted<br>Dimming speed = Normal / Smooth<br>Calibration = Password needed (CLF only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Address | Change the DMX address from 001 to 512                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Display | Display invert = Yes / No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Info    | DMX Live = Shows all received DMX data<br>LED board temperature = Shows fixture temperature<br>Software version = shows fixture software version<br>Usage time = Shows fixture Total, Led total, power cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Mode    | DMX Controlled = Fixture works on DMX<br>AUTO Controlled = Fixture works on AUTO program<br>SOUND Controlled = Fixture work sound controlled<br>STATIC mode = MASTER = RGBWW, Macro<br>STAND ALONE = RGBWW, Macro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Channel | 12 - CH Mode = simple mode<br>21 - CH Mode = Middle dot controlled in 2 sections<br>23 - CH Mode = Simple mode + macro control<br>25 - CH Mode = Middle dot controlled in 2 sections + dimmer<br>30 - CH Mode = Full macro control<br>31 - CH Mode = Middle dot controlled in 3 sections<br>34 - CH Mode = Middle dot controlled in 3 sections + dimmer<br>38 - CH Mode = Full macro controlled and background function<br>39 - CH Mode = Middle dot controlled in 4 sections<br>43 - CH Mode = Middle dot controlled in 4 sections + dimmer<br>57 - CH Mode = Middle dot controlled in 6 sections<br>61 - CH Mode = Middle dot controlled in 6 sections + dimmer<br>115 - CH Mode = Pixel control middle dot and strobe and 12 group side led<br>157 - CH Mode = Pixel control on all led<br>163 - CH Mode = Pixel control on all led + dimmer/strobe |

# ONBOARD CONTROL MENU

| NO. | Main menu | Menu level 2                                                                                                                                                                                                                                                                                                                                                                            | Menu level 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Remark                                                                                                                                        |
|-----|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | MENU      | <ul style="list-style-type: none"> <li>Set Sound sensitivity</li> <li>DMX hold</li> <li>Factory load</li> <li>Reset</li> <li>BL Blinking</li> <li>Pixel order</li> <li>Dimming speed</li> <li>Calibration</li> </ul>                                                                                                                                                                    | <ul style="list-style-type: none"> <li>&lt;001 - 100&gt;</li> <li>DMX Hold / No DMX hold</li> <li>Yes / No</li> <li>Yes / No</li> <li>Yes / No</li> <li>Normal / Inverted</li> <li>Normal / Smooth</li> <li>-</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"> <li>Default : 001</li> <li>Default : DMX Hold</li> <li>Default: Normal</li> <li>Default: Normal</li> </ul> |
| 2   | ADDRESS   | <001 - 512>                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Default : 001                                                                                                                                 |
| 3   | DISPLAY   | Normal / Rotated                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Default : Normal                                                                                                                              |
| 4   | INFO      | <ul style="list-style-type: none"> <li>DMX Live</li> <li>Temperature</li> <li>Software version</li> <li>Usage time</li> </ul>                                                                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>Show all channel information per mode</li> <li>Ledboard: xxx °</li> <li>Software version: Vx.xx</li> <li>Total: xxx hour</li> <li>Led total: xxx hour</li> <li>Power cycle: xxxx times</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                               |
| 5   | MODE      | <ul style="list-style-type: none"> <li>DMX 512 Controlled</li> <li>Auto controlled</li> <li>Sound controlled</li> <li>Static Mode</li> </ul>                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>Product is DMX controlled</li> <li>Master / Stand alone</li> <li>Master / Stand alone</li> <li>1 Master = 1.Red, 2.Green,3. Blue, 4.Warmwhite,5.LED1 auto,6.Led1 auto speed</li> <li>1 Stand alone = 1.Red, 2.Green,3. Blue, 4.Warmwhite,5.LED1 auto,6.Led1 auto speed</li> <li>7.White, 8.Led2 auto</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>Default: DMX</li> </ul>                                                                                |
| 6   | DMX MODE  | <ul style="list-style-type: none"> <li>12 - CH Simple</li> <li>21 - CH Mode</li> <li>23 - CH Mode</li> <li>25 - CH Mode</li> <li>30 - CH Mode</li> <li>31 - CH Mode</li> <li>34 - CH Mode</li> <li>38 - CH Mode</li> <li>39 - CH Mode</li> <li>43 - CH Mode</li> <li>57 - CH Mode</li> <li>61 - CH Mode</li> <li>115 - CH Mode</li> <li>157 - CH Mode</li> <li>163 - CH Mode</li> </ul> | <ul style="list-style-type: none"> <li>Simple mode</li> <li>Middle dot controlled in 2 sections</li> <li>Simple mode + macro control</li> <li>Middle dot controlled in 2 sections + dimmer</li> <li>Full macro control</li> <li>Middle dot controlled in 3 sections</li> <li>Middle dot controlled in 3 sections + dimmer</li> <li>Full macro controlled and background function</li> <li>Middle dot controlled in 4 sections</li> <li>Middle dot controlled in 4 sections + dimmer</li> <li>Middle dot controlled in 6 sections</li> <li>Middle dot controlled in 6 sections + dimmer</li> <li>Pixel control middle dot and strobe and 12 group side led</li> <li>Pixel control on all led</li> <li>Pixel control on all led + dimmer/strobe</li> </ul> |                                                                                                                                               |

# ARRANGEMENT OF THE LED GROUP



# DMX PROTOCOLS

## 12CH

|    |                  |           |         |                                                       |
|----|------------------|-----------|---------|-------------------------------------------------------|
| 1  |                  | Dimmer    | 0~255   | Linear dimmer from dark to bright                     |
| 2  | Strobe           |           | 0~3     | light on                                              |
|    |                  |           | 4~203   | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |                  |           | 204~255 | Random Strobe                                         |
| 3  | Middle 8W LED    | R Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 4  |                  | G Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 5  |                  | B Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 6  |                  | W Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 7  | Middle 1W LED    | W Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 8  | Sides 1W LED     | R Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 9  |                  | G Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 10 |                  | B Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 11 |                  | A Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 12 | Function channel |           | 0-49    | Reserve                                               |
|    |                  |           | 50-59   | Display normal                                        |
|    |                  |           | 60-69   | Display rotated                                       |
|    |                  |           | 70-79   | Display backlight on                                  |
|    |                  |           | 80-89   | Display backlight off                                 |
|    |                  |           | 90-99   | Dimmer speed normal                                   |
|    |                  |           | 100-109 | Dimmer speed smooth                                   |
|    |                  |           | 110-149 | Fixture reset                                         |
|    |                  |           | 150-159 | Pixel orientation normal                              |
|    |                  |           | 160-169 | Pixel orientation inverted                            |
|    |                  |           | 170-255 | Reserve                                               |

## 21CH

|    |                  |            |         |                                                       |
|----|------------------|------------|---------|-------------------------------------------------------|
| 1  |                  | Dimmer     | 0~255   | Linear dimmer from dark to bright                     |
| 2  | Strobe           |            | 0~3     | light on                                              |
|    |                  |            | 4~203   | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |                  |            | 204~255 | Random Strobe                                         |
| 3  | Middle 8W LED    | R1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 4  |                  | G1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 5  |                  | B1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 6  |                  | W1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 7  |                  | R2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 8  |                  | G2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 9  |                  | B2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 10 |                  | W2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 11 | Middle 1W LED    | W1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 12 |                  | W2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 13 | Sides 1W LED     | R1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 14 |                  | G1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 15 |                  | B1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 16 |                  | A1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 17 |                  | R2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 18 |                  | G2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 19 |                  | B2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 20 |                  | A2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 21 | Function channel |            | 0-49    | Reserve                                               |
|    |                  |            | 50-59   | Display normal                                        |
|    |                  |            | 60-69   | Display rotated                                       |
|    |                  |            | 70-79   | Display backlight on                                  |
|    |                  |            | 80-89   | Display backlight off                                 |
|    |                  |            | 90-99   | Dimmer speed normal                                   |
|    |                  |            | 100-109 | Dimmer speed smooth                                   |
|    |                  |            | 110-149 | Fixture reset                                         |
|    |                  |            | 150-159 | Pixel orientation normal                              |
|    |                  |            | 160-169 | Pixel orientation inverted                            |
|    |                  |            | 170-255 | Reserve                                               |

## 23 CH

|    |                  |                                 |                                  |                                                       |
|----|------------------|---------------------------------|----------------------------------|-------------------------------------------------------|
| 1  | Dimmer           |                                 | 0~255                            | Linear dimmer from dark to bright                     |
| 2  | Strobe           |                                 | 0~3                              | light on                                              |
|    |                  |                                 | 4~203                            | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |                  |                                 | 204~255                          | Random Strobe                                         |
| 3  | Middle<br>8W LED | R Dimming                       | 0~255                            | Linear dimmer from dark to bright                     |
| 4  |                  | G Dimming                       | 0~255                            | Linear dimmer from dark to bright                     |
| 5  |                  | B Dimming                       | 0~255                            | Linear dimmer from dark to bright                     |
| 6  |                  | W Dimming                       | 0~255                            | Linear dimmer from dark to bright                     |
| 7  |                  | Macro color                     | 0~9                              | No effect                                             |
|    |                  |                                 | 10~255                           | Macro color                                           |
| 8  |                  | Dynamic pattern                 | 0~9                              | No effect                                             |
|    |                  |                                 | 10~14                            | Dynamic pattern1                                      |
|    |                  |                                 | 15~19                            | Dynamic pattern2                                      |
|    |                  |                                 | ..... (5 in 1                    | .....                                                 |
|    |                  |                                 | 180~184                          | Dynamic pattern35                                     |
|    |                  |                                 | 185~189                          | Dynamic pattern36                                     |
|    |                  |                                 | 190~255                          | Hold                                                  |
| 9  |                  | Pattern move (with 8 ch)        | 0~255                            | Choose pattern                                        |
| 10 |                  | Pattern move speed (with 8 ch)  | 0~9                              | No effect                                             |
|    |                  |                                 | 10~132                           | Go forward, from fast to slow                         |
|    |                  |                                 | 133~255                          | Go in reverse, from fast to slow                      |
| 11 | Middle<br>1W LED | W Dimming                       | 0~255                            | Linear dimmer from dark to bright                     |
| 12 |                  | Dynamic pattern                 | 0~9                              | No effect                                             |
|    |                  |                                 | 10~14                            | Dynamic pattern1                                      |
|    |                  |                                 | 15~19                            | Dynamic pattern2                                      |
|    |                  |                                 | ..... (5 in 1                    | .....                                                 |
|    |                  |                                 | 140~144                          | Dynamic pattern27                                     |
|    |                  |                                 | 145~149                          | Dynamic pattern28                                     |
|    |                  |                                 | 150~255                          | Hold                                                  |
| 13 |                  | Pattern move (with 12 ch)       | 0~255                            | Choose pattern                                        |
| 14 |                  | Pattern move speed (with 12 ch) | 0~9                              | No effect                                             |
|    |                  |                                 | 10~132                           | Go forward, from fast to slow                         |
|    |                  |                                 | 133~255                          | Go in reverse, from fast to slow                      |
| 15 | Sides<br>1W LED  | R Dimming                       | 0~255                            | Linear dimmer from dark to bright                     |
| 16 |                  | G Dimming                       | 0~255                            | Linear dimmer from dark to bright                     |
| 17 |                  | B Dimming                       | 0~255                            | Linear dimmer from dark to bright                     |
| 18 |                  | A Dimming                       | 0~255                            | Linear dimmer from dark to bright                     |
| 19 |                  | Macro color                     | 0~9                              | No effect                                             |
|    |                  |                                 | 10~255                           | Macro color                                           |
| 20 |                  | Dynamic pattern                 | 0~9                              | No effect                                             |
|    |                  |                                 | 10~11                            | Dynamic pattern1                                      |
|    |                  |                                 | 12~13                            | Dynamic pattern2                                      |
|    |                  |                                 | ..... (2 in 1                    | .....                                                 |
|    |                  |                                 | 146~147                          | Dynamic pattern69                                     |
|    |                  |                                 | 148~149                          | Dynamic pattern70                                     |
|    |                  |                                 | 150~255                          | Hold                                                  |
| 21 |                  | Pattern move (with 20 ch)       | 0~255                            | Choose pattern                                        |
| 22 |                  | Pattern move speed (with 20 ch) | 0~9                              | No effect                                             |
|    |                  |                                 | 10~132                           | Go forward, from fast to slow                         |
|    | 133~255          |                                 | Go in reverse, from fast to slow |                                                       |

## 23 CH

|    |                  |         |                            |
|----|------------------|---------|----------------------------|
| 23 | Function channel | 0-49    | Reserve                    |
|    |                  | 50-59   | Display normal             |
|    |                  | 60-69   | Display rotated            |
|    |                  | 70-79   | Display backlight on       |
|    |                  | 80-89   | Display backlight off      |
|    |                  | 90-99   | Dimmer speed normal        |
|    |                  | 100-109 | Dimmer speed smooth        |
|    |                  | 110-149 | Fixture reset              |
|    |                  | 150-159 | Pixel orientation normal   |
|    |                  | 160-169 | Pixel orientation inverted |
|    |                  | 170-255 | Reserve                    |

## 25 CH

|    |                  |            |                                   |                                                       |
|----|------------------|------------|-----------------------------------|-------------------------------------------------------|
| 1  | Middle<br>8W LED | Dimmer     | 0~255                             | Linear dimmer from dark to bright                     |
| 2  |                  | Strobe     | 0~3                               | light on                                              |
|    |                  |            | 4~203                             | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |                  |            | 204~255                           | Random Strobe                                         |
| 3  |                  | R1 Dimming | 0~255                             | Linear dimmer from dark to bright                     |
| 4  |                  | G1 Dimming | 0~255                             | Linear dimmer from dark to bright                     |
| 5  |                  | B1 Dimming | 0~255                             | Linear dimmer from dark to bright                     |
| 6  |                  | W1 Dimming | 0~255                             | Linear dimmer from dark to bright                     |
| 7  |                  | R2 Dimming | 0~255                             | Linear dimmer from dark to bright                     |
| 8  |                  | G2 Dimming | 0~255                             | Linear dimmer from dark to bright                     |
| 9  |                  | B2 Dimming | 0~255                             | Linear dimmer from dark to bright                     |
| 10 | W2 Dimming       | 0~255      | Linear dimmer from dark to bright |                                                       |
| 11 | Middle<br>1W LED | Dimmer     | 0~255                             | Linear dimmer from dark to bright                     |
| 12 |                  | Strobe     | 0~3                               | light on                                              |
|    |                  |            | 4~203                             | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |                  |            | 204~255                           | Random Strobe                                         |
| 13 |                  | W1 Dimming | 0~255                             | Linear dimmer from dark to bright                     |
| 14 | W2 Dimming       | 0~255      | Linear dimmer from dark to bright |                                                       |
| 15 | Sides 1W<br>LED  | Dimmer     | 0~255                             | Linear dimmer from dark to bright                     |
| 16 |                  | Strobe     | 0~3                               | light on                                              |
|    |                  |            | 4~203                             | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |                  |            | 204~255                           | Random Strobe                                         |
| 17 |                  | R1 Dimming | 0~255                             | Linear dimmer from dark to bright                     |
| 18 |                  | G1 Dimming | 0~255                             | Linear dimmer from dark to bright                     |
| 19 |                  | B1 Dimming | 0~255                             | Linear dimmer from dark to bright                     |
| 20 |                  | A1 Dimming | 0~255                             | Linear dimmer from dark to bright                     |
| 21 |                  | R2 Dimming | 0~255                             | Linear dimmer from dark to bright                     |
| 22 |                  | G2 Dimming | 0~255                             | Linear dimmer from dark to bright                     |
| 23 | B2 Dimming       | 0~255      | Linear dimmer from dark to bright |                                                       |
| 24 | A2 Dimming       | 0~255      | Linear dimmer from dark to bright |                                                       |
| 25 | Function channel |            | 0-49                              | Reserve                                               |
|    |                  |            | 50-59                             | Display normal                                        |
|    |                  |            | 60-69                             | Display rotated                                       |
|    |                  |            | 70-79                             | Display backlight on                                  |
|    |                  |            | 80-89                             | Display backlight off                                 |
|    |                  |            | 90-99                             | Dimmer speed normal                                   |
|    |                  |            | 100-109                           | Dimmer speed smooth                                   |
|    |                  |            | 110-149                           | Fixture reset                                         |
|    |                  |            | 150-159                           | Pixel orientation normal                              |
|    |                  |            | 160-169                           | Pixel orientation inverted                            |
|    |                  |            | 170-255                           | Reserve                                               |

## 30CH

|    |                  |                                 |                |                                                       |
|----|------------------|---------------------------------|----------------|-------------------------------------------------------|
| 1  | Dimmer           |                                 | 0~255          | Linear dimmer from dark to bright                     |
| 2  | Strobe           |                                 | 0~3            | light on                                              |
|    |                  |                                 | 4~203          | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |                  |                                 | 204~255        | Random Strobe                                         |
| 3  | Middle<br>8W LED | Dimmer                          | 0~255          | Linear dimmer from dark to bright                     |
| 4  |                  | Strobe                          | 0~3            | light on                                              |
|    |                  |                                 | 4~203          | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |                  |                                 | 204~255        | Random Strobe                                         |
| 5  |                  | R Dimming                       | 0~255          | Linear dimmer from dark to bright                     |
| 6  |                  | G Dimming                       | 0~255          | Linear dimmer from dark to bright                     |
| 7  |                  | B Dimming                       | 0~255          | Linear dimmer from dark to bright                     |
| 8  |                  | WW Dimming                      | 0~255          | Linear dimmer from dark to bright                     |
| 9  |                  | Macro color                     | 0~9            | No effect                                             |
|    |                  |                                 | 10~255         | Macro color                                           |
| 10 |                  | Dynamic pattern                 | 0~9            | No effect                                             |
|    |                  |                                 | 10~14          | Dynamic pattern1                                      |
|    |                  |                                 | 15~19          | Dynamic pattern2                                      |
|    |                  |                                 | ..... (5 in 1) | .....                                                 |
|    |                  |                                 | 180~184        | Dynamic pattern35                                     |
|    |                  |                                 | 185~189        | Dynamic pattern36                                     |
|    |                  |                                 | 190~255        | Hold                                                  |
| 11 |                  | Pattern move (with 10 ch)       | 0~255          | Choose pattern                                        |
| 12 |                  | Pattern move speed (with 10 ch) | 0~9            | No effect                                             |
|    |                  |                                 | 10~132         | Go forward, from fast to slow                         |
|    |                  |                                 | 133~255        | Go in reverse, from fast to slow                      |
| 13 | Middle<br>1W LED | Dimmer                          | 0~255          | Linear dimmer from dark to bright                     |
| 14 |                  | Strobe                          | 0~3            | light on                                              |
|    |                  |                                 | 4~203          | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |                  |                                 | 204~255        | Random Strobe                                         |
| 15 |                  | W Dimming                       | 0~255          | Linear dimmer from dark to bright                     |
| 16 |                  | Dynamic pattern                 | 0~9            | No effect                                             |
|    |                  |                                 | 10~14          | Dynamic pattern1                                      |
|    |                  |                                 | 15~19          | Dynamic pattern2                                      |
|    |                  |                                 | ..... (5 in 1) | .....                                                 |
|    |                  |                                 | 140~144        | Dynamic pattern27                                     |
|    |                  |                                 | 145~149        | Dynamic pattern28                                     |
|    |                  |                                 | 150~255        | Hold                                                  |
| 17 |                  | Pattern move (with 16 ch)       | 0~255          | Choose pattern                                        |
| 18 |                  | Pattern move speed (with 16 ch) | 0~9            | No effect                                             |
|    |                  |                                 | 10~132         | Go forward, from fast to slow                         |
|    |                  |                                 | 133~255        | Go in reverse, from fast to slow                      |
| 19 | Sides 1W<br>LED  | Dimmer                          | 0~255          | Linear dimmer from dark to bright                     |
| 20 |                  | Strobe                          | 0~3            | light on                                              |
|    |                  |                                 | 4~203          | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |                  |                                 | 204~255        | Random Strobe                                         |
| 21 |                  | R Dimming                       | 0~255          | Linear dimmer from dark to bright                     |
| 22 |                  | G Dimming                       | 0~255          | Linear dimmer from dark to bright                     |
| 23 |                  | B Dimming                       | 0~255          | Linear dimmer from dark to bright                     |
| 24 |                  | A Dimming                       | 0~255          | Linear dimmer from dark to bright                     |
| 25 |                  | Macro color                     | 0~9            | No effect                                             |
|    |                  |                                 | 10~255         | Macro color                                           |
| 26 |                  | Dynamic pattern                 | 0~9            | No effect                                             |
|    |                  |                                 | 10~11          | Dynamic pattern1                                      |
|    |                  |                                 | 12~13          | Dynamic pattern2                                      |
|    |                  |                                 | ..... (2 in 1) | .....                                                 |
|    |                  |                                 | 146~147        | Dynamic pattern69                                     |
|    |                  |                                 | 148~149        | Dynamic pattern70                                     |

### 30CH

|    |  |                                   |                  |                                  |
|----|--|-----------------------------------|------------------|----------------------------------|
| 27 |  | Pattern move ( with 26 ch )       | 148--149         | Dynamic pattern70                |
|    |  |                                   | 150--255         | Hold                             |
| 28 |  | Pattern move speed ( with 26 ch ) | 0--255           | Choose pattern                   |
|    |  |                                   | 0--9             | No effect                        |
|    |  |                                   | 10--132          | Go forward, from fast to slow    |
| 29 |  | Dimming modes                     | 133--255         | Go in reverse, from fast to slow |
|    |  |                                   | No work          | 0---49                           |
| 30 |  | Function channel                  | Smoothly Dimming | 50---255                         |
|    |  |                                   | 0-49             | Reserve                          |
|    |  |                                   | 50-59            | Display normal                   |
|    |  |                                   | 60-69            | Display rotated                  |
|    |  |                                   | 70-79            | Display backlight on             |
|    |  |                                   | 80-89            | Display backlight off            |
|    |  |                                   | 90-99            | Dimmer speed normal              |
|    |  |                                   | 100-109          | Dimmer speed smooth              |
|    |  |                                   | 110-149          | Fixture reset                    |
|    |  |                                   | 150-159          | Pixel orientation normal         |
|    |  |                                   | 160-169          | Pixel orientation inverted       |
|    |  |                                   | 170-255          | Reserve                          |

### 31CH

|    |                  |            |          |                                                       |
|----|------------------|------------|----------|-------------------------------------------------------|
| 1  | Dimmer           |            | 0--255   | Linear dimmer from dark to bright                     |
| 2  | Strobe           |            | 0--3     | light on                                              |
|    |                  |            | 4--203   | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |                  |            | 204--255 | Random Strobe                                         |
| 3  | Middle<br>8W LED | R1 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 4  |                  | G1 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 5  |                  | B1 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 6  |                  | W1 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 7  |                  | R2 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 8  |                  | G2 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 9  |                  | B2 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 10 |                  | W2 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 11 |                  | R3 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 12 |                  | G3 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 13 |                  | B3 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 14 |                  | W3 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 15 | Middle<br>1W LED | W1 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 16 |                  | W2 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 17 |                  | W3 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 18 | Sides 1W<br>LED  | R1 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 19 |                  | G1 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 20 |                  | B1 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 21 |                  | A1 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 22 |                  | R2 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 23 |                  | G2 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 24 |                  | B2 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 25 |                  | A2 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 26 |                  | R3 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 27 |                  | G3 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 28 |                  | B3 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 29 |                  | A3 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 31 | Function channel |            | 0-49     | Reserve                                               |
|    |                  |            | 50-59    | Display normal                                        |
|    |                  |            | 60-69    | Display rotated                                       |
|    |                  |            | 70-79    | Display backlight on                                  |
|    |                  |            | 80-89    | Display backlight off                                 |
|    |                  |            | 90-99    | Dimmer speed normal                                   |
|    |                  |            | 100-109  | Dimmer speed smooth                                   |
|    |                  |            | 110-149  | Fixture reset                                         |
|    |                  |            | 150-159  | Pixel orientation normal                              |
|    |                  |            | 160-169  | Pixel orientation inverted                            |
|    |                  |            | 170-255  | Reserve                                               |

|    |                  |            |                                   |                                                       |
|----|------------------|------------|-----------------------------------|-------------------------------------------------------|
| 1  | Middle<br>8W LED | Dimmer     | 0-255                             | Linear dimmer from dark to bright                     |
| 2  |                  | Strobe     | 0-3                               | light on                                              |
|    |                  |            | 4-203                             | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |                  |            | 204-255                           | Random Strobe                                         |
| 3  |                  | R1 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 4  |                  | G1 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 5  |                  | B1 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 6  |                  | W1 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 7  |                  | R2 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 8  |                  | G2 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 9  |                  | B2 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 10 |                  | W2 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 11 |                  | R3 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 12 |                  | G3 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 13 |                  | B3 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 14 | W3 Dimming       | 0-255      | Linear dimmer from dark to bright |                                                       |
| 15 | Middle<br>1W LED | Dimmer     | 0-255                             | Linear dimmer from dark to bright                     |
| 16 |                  | Strobe     | 0-3                               | light on                                              |
|    |                  |            | 4-203                             | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |                  |            | 204-255                           | Random Strobe                                         |
| 17 |                  | W1 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 18 | W2 Dimming       | 0-255      | Linear dimmer from dark to bright |                                                       |
| 19 | W3 Dimming       | 0-255      | Linear dimmer from dark to bright |                                                       |
| 20 | Sides 1W<br>LED  | Dimmer     | 0-255                             | Linear dimmer from dark to bright                     |
| 21 |                  | Strobe     | 0-3                               | light on                                              |
|    |                  |            | 4-203                             | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |                  |            | 204-255                           | Random Strobe                                         |
| 22 |                  | R1 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 23 |                  | G1 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 24 |                  | B1 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 25 |                  | A1 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 26 |                  | R2 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 27 |                  | G2 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 28 |                  | B2 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 29 |                  | A2 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 30 |                  | R3 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 31 |                  | G3 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 32 |                  | B3 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 33 | A3 Dimming       | 0-255      | Linear dimmer from dark to bright |                                                       |
| 34 | Function channel |            | 0-49                              | Reserve                                               |
|    |                  |            | 50-59                             | Display normal                                        |
|    |                  |            | 60-69                             | Display rotated                                       |
|    |                  |            | 70-79                             | Display backlight on                                  |
|    |                  |            | 80-89                             | Display backlight off                                 |
|    |                  |            | 90-99                             | Dimmer speed normal                                   |
|    |                  |            | 100-109                           | Dimmer speed smooth                                   |
|    |                  |            | 110-149                           | Fixture reset                                         |
|    |                  |            | 150-159                           | Pixel orientation normal                              |
|    |                  |            | 160-169                           | Pixel orientation inverted                            |
|    |                  |            | 170-255                           | Reserve                                               |

|    |               |                                   |                     |                                                       |
|----|---------------|-----------------------------------|---------------------|-------------------------------------------------------|
| 1  |               | Dimmer                            | 0--255              | Linear dimmer from dark to bright                     |
| 2  |               | Strobe                            | 0--3                | light on                                              |
|    |               |                                   | 4--203              | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |               |                                   | 204--255            | Random Strobe                                         |
| 3  |               | Dimmer                            | 0--255              | Linear dimmer from dark to bright                     |
| 4  |               | Strobe                            | 0--3                | light on                                              |
|    |               |                                   | 4--203              | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |               |                                   | 204--255            | Random Strobe                                         |
| 5  |               | R Dimming                         | 0--255              | Linear dimmer from dark to bright                     |
| 6  |               | G Dimming                         | 0--255              | Linear dimmer from dark to bright                     |
| 7  |               | B Dimming                         | 0--255              | Linear dimmer from dark to bright                     |
| 8  |               | W Dimming                         | 0--255              | Linear dimmer from dark to bright                     |
| 9  |               | Macro color                       | 0--9                | No effect                                             |
|    |               |                                   | 10--255             | Macro color                                           |
| 10 | Middle 8W LED | Dynamic pattern                   | 0--9                | No effect                                             |
|    |               |                                   | 10--14              | Dynamic pattern1                                      |
|    |               |                                   | 15--19              | Dynamic pattern2                                      |
|    |               |                                   | ..... (5 in 1)      | .....                                                 |
|    |               |                                   | 180--184            | Dynamic pattern35                                     |
|    |               |                                   | 185--189            | Dynamic pattern36                                     |
|    |               |                                   | 190--255            | Hold                                                  |
| 11 |               | Pattern move (with 10 ch)         | 0--255              | Choose pattern                                        |
| 12 |               | Pattern move speed (with 10 ch)   | 0--9                | No effect                                             |
|    |               |                                   | 10--132             | Go forward, from fast to slow                         |
|    |               |                                   | 133--255            | Go in reverse, from fast to slow                      |
| 13 |               | Background pattern R (with 10 ch) | From dark to bright | 0---255                                               |
| 14 |               | Background pattern G (with 10 ch) | From dark to bright | 0---255                                               |
| 15 |               | Background pattern B (with 10 ch) | From dark to bright | 0---255                                               |
| 16 |               | Background pattern W (with 10 ch) | From dark to bright | 0---255                                               |
| 17 |               | Dimmer                            | 0--255              | Linear dimmer from dark to bright                     |
| 18 |               | Strobe                            | 0--3                | light on                                              |
|    |               |                                   | 4--203              | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |               |                                   | 204--255            | Random Strobe                                         |
| 19 |               | W Dimming                         | 0--255              | Linear dimmer from dark to bright                     |
| 20 | Middle 1W LED | Dynamic pattern                   | 0--9                | No effect                                             |
|    |               |                                   | 10--14              | Dynamic pattern1                                      |
|    |               |                                   | 15--19              | Dynamic pattern2                                      |
|    |               |                                   | ..... (5 in 1)      | .....                                                 |
|    |               |                                   | 140--144            | Dynamic pattern27                                     |
|    |               |                                   | 145--149            | Dynamic pattern28                                     |
|    |               |                                   | 150--255            | Hold                                                  |
| 21 |               | Pattern move (with 20 ch)         | 0--255              | Choose pattern                                        |
| 22 |               | Pattern move speed (with 20 ch)   | 0--9                | No effect                                             |
|    |               |                                   | 10--132             | Go forward, from fast to slow                         |
|    |               |                                   | 133--255            | Go in reverse, from fast to slow                      |

## 38CH

|        |                  |                                   |                     |                                                       |
|--------|------------------|-----------------------------------|---------------------|-------------------------------------------------------|
| 23     | Sides 1W LED     | Dimmer                            | 0~255               | Linear dimmer from dark to bright                     |
| 24     |                  | Strobe                            | 0~3                 | light on                                              |
|        |                  |                                   | 4~203               | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|        |                  |                                   | 204~255             | Random Strobe                                         |
| 25     |                  | R Dimming                         | 0~255               | Linear dimmer from dark to bright                     |
| 26     |                  | G Dimming                         | 0~255               | Linear dimmer from dark to bright                     |
| 27     |                  | B Dimming                         | 0~255               | Linear dimmer from dark to bright                     |
| 28     |                  | A Dimming                         | 0~255               | Linear dimmer from dark to bright                     |
| 29     |                  | Macro color                       | 0~9                 | No effect                                             |
| 10~255 |                  |                                   | Macro color         |                                                       |
| 30     |                  | Dynamic pattern                   | 0~9                 | No effect                                             |
|        |                  |                                   | 10~11               | Dynamic pattern1                                      |
|        |                  |                                   | 12~13               | Dynamic pattern2                                      |
|        |                  |                                   | ..... (2 in 1)      | .....                                                 |
|        |                  |                                   | 146~147             | Dynamic pattern69                                     |
|        |                  |                                   | 148~149             | Dynamic pattern70                                     |
|        |                  |                                   | 150~255             | Hold                                                  |
| 31     |                  | Pattern move (with 30 ch)         | 0~255               | Choose pattern                                        |
| 32     |                  | Pattern move speed (with 30 ch)   | 0~9                 | No effect                                             |
|        |                  |                                   | 10~132              | Go forward, from fast to slow                         |
|        |                  |                                   | 133~255             | Go in reverse, from fast to slow                      |
| 33     |                  | Background pattern R (with 30 ch) | From dark to bright | 0----255                                              |
| 34     |                  | Background pattern G (with 30 ch) | From dark to bright | 0----255                                              |
| 35     |                  | Background pattern B (with 30 ch) | From dark to bright | 0----255                                              |
| 36     |                  | Background pattern L (with 30 ch) | From dark to bright | 0----255                                              |
| 37     | No function      |                                   | Reserved            |                                                       |
| 38     | Function channel |                                   | 0-49                | Reserve                                               |
|        |                  |                                   | 50-59               | Display normal                                        |
|        |                  |                                   | 60-69               | Display rotated                                       |
|        |                  |                                   | 70-79               | Display backlight on                                  |
|        |                  |                                   | 80-89               | Display backlight off                                 |
|        |                  |                                   | 90-99               | Dimmer speed normal                                   |
|        |                  |                                   | 100-109             | Dimmer speed smooth                                   |
|        |                  |                                   | 110-149             | Fixture reset                                         |
|        |                  |                                   | 150-159             | Pixel orientation normal                              |
|        |                  |                                   | 160-169             | Pixel orientation inverted                            |
|        |                  |                                   | 170-255             | Reserve                                               |

## 39CH

|    |               |            |          |                                                       |
|----|---------------|------------|----------|-------------------------------------------------------|
| 1  | Dimmer        |            | 0--255   | Linear dimmer from dark to bright                     |
| 2  | Strobe        |            | 0--3     | light on                                              |
|    |               |            | 4--203   | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |               |            | 204--255 | Random Strobe                                         |
| 3  | Middle 8W LED | R1 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 4  |               | G1 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 5  |               | B1 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 6  |               | W1 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 7  |               | R2 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 8  |               | G2 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 9  |               | B2 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 10 |               | W2 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 11 |               | R3 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 12 |               | G3 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 13 |               | B3 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 14 |               | W3 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 15 |               | R4 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 16 |               | G4 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 17 |               | B4 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 18 |               | W4 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 19 | Middle 1W LED | W1 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 20 |               | W2 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 21 |               | W3 Dimming | 0--255   | Linear dimmer from dark to bright                     |
| 22 |               | W4 Dimming | 0--255   | Linear dimmer from dark to bright                     |

### 39CH

|    |                  |            |         |                                   |
|----|------------------|------------|---------|-----------------------------------|
| 23 | Sides 1W LED     | R1 Dimming | 0~255   | Linear dimmer from dark to bright |
| 24 |                  | G1 Dimming | 0~255   | Linear dimmer from dark to bright |
| 25 |                  | B1 Dimming | 0~255   | Linear dimmer from dark to bright |
| 26 |                  | A1 Dimming | 0~255   | Linear dimmer from dark to bright |
| 27 |                  | R2 Dimming | 0~255   | Linear dimmer from dark to bright |
| 28 |                  | G2 Dimming | 0~255   | Linear dimmer from dark to bright |
| 29 |                  | B2 Dimming | 0~255   | Linear dimmer from dark to bright |
| 30 |                  | A2 Dimming | 0~255   | Linear dimmer from dark to bright |
| 31 |                  | R3 Dimming | 0~255   | Linear dimmer from dark to bright |
| 32 |                  | G3 Dimming | 0~255   | Linear dimmer from dark to bright |
| 33 |                  | B3 Dimming | 0~255   | Linear dimmer from dark to bright |
| 34 |                  | A3 Dimming | 0~255   | Linear dimmer from dark to bright |
| 35 |                  | R4 Dimming | 0~255   | Linear dimmer from dark to bright |
| 36 |                  | G4 Dimming | 0~255   | Linear dimmer from dark to bright |
| 37 |                  | B4 Dimming | 0~255   | Linear dimmer from dark to bright |
| 38 |                  | A4 Dimming | 0~255   | Linear dimmer from dark to bright |
| 39 | Function channel |            | 0-49    | Reserve                           |
|    |                  |            | 50-59   | Display normal                    |
|    |                  |            | 60-69   | Display rotated                   |
|    |                  |            | 70-79   | Display backlight on              |
|    |                  |            | 80-89   | Display backlight off             |
|    |                  |            | 90-99   | Dimmer speed normal               |
|    |                  |            | 100-109 | Dimmer speed smooth               |
|    |                  |            | 110-149 | Fixture reset                     |
|    |                  |            | 150-159 | Pixel orientation normal          |
|    |                  |            | 160-169 | Pixel orientation inverted        |
|    |                  |            | 170-255 | Reserve                           |

### 43CH

|    |               |            |         |                                                       |
|----|---------------|------------|---------|-------------------------------------------------------|
| 1  | Middle 8W LED | Dimmer     | 0~255   | Linear dimmer from dark to bright                     |
| 2  |               | Strobe     | 0~3     | light on                                              |
|    |               |            | 4~203   | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |               |            | 204~255 | Random Strobe                                         |
| 3  |               | R1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 4  |               | G1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 5  |               | B1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 6  |               | W1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 7  |               | R2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 8  |               | G2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 9  |               | B2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 10 |               | W2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 11 |               | R3 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 12 |               | G3 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 13 |               | B3 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 14 |               | W3 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 15 |               | R4 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 16 |               | G4 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 17 |               | B4 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 18 |               | W4 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 19 | Middle 1W LED | Dimmer     | 0~255   | Linear dimmer from dark to bright                     |
| 20 |               | Strobe     | 0~3     | light on                                              |
|    |               |            | 4~203   | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |               |            | 204~255 | Random Strobe                                         |
| 21 |               | W1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 22 |               | W2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 23 |               | W3 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 24 |               | W4 Dimming | 0~255   | Linear dimmer from dark to bright                     |

|    |                  |            |         |                                                        |
|----|------------------|------------|---------|--------------------------------------------------------|
| 25 | Sides 1W LED     | Dimmer     | 0-255   | Linear dimmer from dark to bright                      |
| 26 |                  | Strobe     | 0-3     | light on                                               |
|    |                  |            | 4-203   | Synchronous Strobe speed from slow to fast ( 1HZ-25HZ) |
|    |                  |            | 204-255 | Random Strobe                                          |
| 27 |                  | R1 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 28 |                  | G1 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 29 |                  | B1 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 30 |                  | A1 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 31 |                  | R2 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 32 |                  | G2 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 33 |                  | B2 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 34 |                  | A2 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 35 |                  | R3 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 36 |                  | G3 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 37 |                  | B3 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 38 |                  | A3 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 39 |                  | R4 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 40 |                  | G4 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 41 |                  | B4 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 42 |                  | A4 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 43 | Function channel |            | 0-49    | Reserve                                                |
|    |                  |            | 50-59   | Display normal                                         |
|    |                  |            | 60-69   | Display rotated                                        |
|    |                  |            | 70-79   | Display backlight on                                   |
|    |                  |            | 80-89   | Display backlight off                                  |
|    |                  |            | 90-99   | Dimmer speed normal                                    |
|    |                  |            | 100-109 | Dimmer speed smooth                                    |
|    |                  |            | 110-149 | Fixture reset                                          |
|    |                  |            | 150-159 | Pixel orientation normal                               |
|    |                  |            | 160-169 | Pixel orientation inverted                             |
|    |                  |            | 170-255 | Reserve                                                |

|    |                  |            |         |                                                       |
|----|------------------|------------|---------|-------------------------------------------------------|
| 1  |                  | Dimmer     | 0~255   | Linear dimmer from dark to bright                     |
| 2  |                  | Strobe     | 0~3     | light on                                              |
|    |                  |            | 4~203   | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |                  |            | 204~255 | Random Strobe                                         |
| 3  | Middle<br>8W LED | R1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 4  |                  | G1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 5  |                  | B1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 6  |                  | W1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 7  |                  | R2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 8  |                  | G2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 9  |                  | B2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 10 |                  | W2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 11 |                  | R3 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 12 |                  | G3 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 13 |                  | B3 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 14 |                  | W3 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 15 |                  | R4 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 16 |                  | G4 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 17 |                  | B4 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 18 |                  | W4 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 19 |                  | R5 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 20 |                  | G5 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 21 |                  | B5 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 22 |                  | W5 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 23 |                  | R6 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 24 |                  | G6 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 25 |                  | B6 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 26 |                  | W6 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 27 | Middle<br>1W LED | W1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 28 |                  | W2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 29 |                  | W3 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 30 |                  | W4 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 31 |                  | W5 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 32 |                  | W6 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 33 |                  | R1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 34 |                  | G1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 35 |                  | B1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 36 |                  | A1 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 37 | Sides 1W<br>LED  | R2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 38 |                  | G2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 39 |                  | B2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 40 |                  | A2 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 41 |                  | R3 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 42 |                  | G3 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 43 |                  | B3 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 44 |                  | A3 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 45 |                  | R4 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 46 |                  | G4 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 47 |                  | B4 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 48 |                  | A4 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 49 |                  | R5 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 50 |                  | G5 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 51 |                  | B5 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 52 |                  | A5 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 53 |                  | R6 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 54 |                  | G6 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 55 |                  | B6 Dimming | 0~255   | Linear dimmer from dark to bright                     |
| 56 |                  | A6 Dimming | 0~255   | Linear dimmer from dark to bright                     |

57CH

|    |                  |         |                            |
|----|------------------|---------|----------------------------|
| 57 | Function channel | 0-49    | Reserve                    |
|    |                  | 50-59   | Display normal             |
|    |                  | 60-69   | Display rotated            |
|    |                  | 70-79   | Display backlight on       |
|    |                  | 80-89   | Display backlight off      |
|    |                  | 90-99   | Dimmer speed normal        |
|    |                  | 100-109 | Dimmer speed smooth        |
|    |                  | 110-149 | Fixture reset              |
|    |                  | 150-159 | Pixel orientation normal   |
|    |                  | 160-169 | Pixel orientation inverted |
|    |                  | 170-255 | Reserve                    |

61CH

|    |                  |            |         |                                                        |
|----|------------------|------------|---------|--------------------------------------------------------|
| 1  | Middle<br>8W LED | Dimmer     | 0-255   | Linear dimmer from dark to bright                      |
| 2  |                  | Strobe     | 0-3     | light on                                               |
|    |                  |            | 4-203   | Synchronous Strobe speed from slow to fast ( 1HZ-25HZ) |
|    |                  |            | 204-255 | Random Strobe                                          |
| 3  |                  | R1 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 4  |                  | G1 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 5  |                  | B1 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 6  |                  | W1 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 7  |                  | R2 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 8  |                  | G2 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 9  |                  | B2 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 10 |                  | W2 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 11 |                  | R3 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 12 |                  | G3 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 13 |                  | B3 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 14 |                  | W3 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 15 |                  | R4 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 16 |                  | G4 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 17 |                  | B4 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 18 |                  | W4 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 19 |                  | R5 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 20 |                  | G5 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 21 |                  | B5 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 22 |                  | W5 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 23 |                  | R6 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 24 |                  | G6 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 25 |                  | B6 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 26 |                  | W6 Dimming | 0-255   | Linear dimmer from dark to bright                      |

## 61CH

|    |                  |                  |                                   |                                                       |                       |
|----|------------------|------------------|-----------------------------------|-------------------------------------------------------|-----------------------|
| 27 | Middle<br>1W LED | Dimmer           | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 28 |                  | Strobe           | 0-3                               | light on                                              |                       |
|    |                  |                  | 4-203                             | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |                       |
|    |                  |                  | 204-255                           | Random Strobe                                         |                       |
| 29 |                  | W1 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 30 |                  | W2 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 31 |                  | W3 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 32 |                  | W4 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 33 | W5 Dimming       | 0-255            | Linear dimmer from dark to bright |                                                       |                       |
| 34 | W6 Dimming       | 0-255            | Linear dimmer from dark to bright |                                                       |                       |
| 35 | Sides 1W<br>LED  | Dimmer           | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 36 |                  | Strobe           | 0-3                               | light on                                              |                       |
|    |                  |                  | 4-203                             | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |                       |
|    |                  |                  | 204-255                           | Random Strobe                                         |                       |
| 37 |                  | R1 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 38 |                  | G1 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 39 |                  | B1 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 40 |                  | A1 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 41 |                  | R2 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 42 |                  | G2 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 43 |                  | B2 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 44 |                  | A2 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 45 |                  | R3 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 46 |                  | G3 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 47 |                  | B3 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 48 |                  | A3 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 49 |                  | R4 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 50 |                  | G4 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 51 |                  | B4 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 52 |                  | A4 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 53 |                  | R5 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 54 |                  | G5 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 55 |                  | B5 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 56 |                  | A6 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 57 |                  | R6 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 58 |                  | G6 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 59 |                  | B6 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 60 |                  | A6 Dimming       | 0-255                             | Linear dimmer from dark to bright                     |                       |
| 61 |                  | Function channel |                                   | 0-49                                                  | Reserve               |
|    |                  |                  |                                   | 50-59                                                 | Display normal        |
|    |                  |                  |                                   | 60-69                                                 | Display rotated       |
|    |                  |                  |                                   | 70-79                                                 | Display backlight on  |
|    |                  |                  |                                   | 80-89                                                 | Display backlight off |
|    |                  |                  |                                   | 90-99                                                 | Dimmer speed normal   |
|    |                  |                  |                                   | 100-109                                               | Dimmer speed smooth   |
|    |                  |                  |                                   | 110-149                                               | Fixture reset         |
|    | 150-159          |                  |                                   | Pixel orientation normal                              |                       |
|    | 160-169          |                  |                                   | Pixel orientation inverted                            |                       |
|    |                  | 170-255          | Reserve                           |                                                       |                       |

|    |                  |             |         |                                                       |
|----|------------------|-------------|---------|-------------------------------------------------------|
| 1  | Middle<br>8W LED | Dimmer      | 0-255   | Linear dimmer from dark to bright                     |
| 2  |                  | Strobe      | 0-3     | light on                                              |
|    |                  |             | 4-203   | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|    |                  |             | 204-255 | Random Strobe                                         |
| 3  |                  | R1 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 4  |                  | G1 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 5  |                  | B1 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 6  |                  | W1 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 7  |                  | R2 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 8  |                  | G2 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 9  |                  | B2 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 10 |                  | W2 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 11 |                  | R3 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 12 |                  | G3 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 13 |                  | B3 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 14 |                  | W3 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 15 |                  | R4 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 16 |                  | G4 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 17 |                  | B4 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 18 |                  | W4 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 19 |                  | R5 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 20 |                  | G5 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 21 |                  | B5 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 22 |                  | W5 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 23 |                  | R6 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 24 |                  | G6 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 25 |                  | B6 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 26 |                  | W6 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 27 |                  | R7 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 28 |                  | G7 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 29 |                  | B7 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 30 |                  | W7 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 31 |                  | R8 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 32 |                  | G8 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 33 |                  | B8 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 34 |                  | W8 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 35 |                  | R9 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 36 |                  | G9 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 37 |                  | B9 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 38 |                  | W9 Dimming  | 0-255   | Linear dimmer from dark to bright                     |
| 39 |                  | R10 Dimming | 0-255   | Linear dimmer from dark to bright                     |
| 40 |                  | G10 Dimming | 0-255   | Linear dimmer from dark to bright                     |
| 41 |                  | B10 Dimming | 0-255   | Linear dimmer from dark to bright                     |
| 42 |                  | W10 Dimming | 0-255   | Linear dimmer from dark to bright                     |
| 43 |                  | R11 Dimming | 0-255   | Linear dimmer from dark to bright                     |
| 44 |                  | G11 Dimming | 0-255   | Linear dimmer from dark to bright                     |
| 45 |                  | B11 Dimming | 0-255   | Linear dimmer from dark to bright                     |
| 46 |                  | W11 Dimming | 0-255   | Linear dimmer from dark to bright                     |
| 47 |                  | R12 Dimming | 0-255   | Linear dimmer from dark to bright                     |
| 48 |                  | G12 Dimming | 0-255   | Linear dimmer from dark to bright                     |
| 49 |                  | B12 Dimming | 0-255   | Linear dimmer from dark to bright                     |
| 50 |                  | W12 Dimming | 0-255   | Linear dimmer from dark to bright                     |

|     |                  |             |          |                                                       |
|-----|------------------|-------------|----------|-------------------------------------------------------|
| 51  | Middle<br>1W LED | Dimmer      | 0-255    | Linear dimmer from dark to bright                     |
| 52  |                  | Strobe      | 0-3      | light on                                              |
|     |                  |             | 4-203    | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|     |                  |             | 204-255  | Random Strobe                                         |
| 53  |                  | W1 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 54  |                  | W2 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 55  |                  | W3 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 56  |                  | W4 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 57  |                  | W5 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 58  |                  | W6 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 59  |                  | W7 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 60  |                  | W8 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 61  |                  | W9 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 62  |                  | W10 Dimming | 0-255    | Linear dimmer from dark to bright                     |
| 63  |                  | W11 Dimming | 0-255    | Linear dimmer from dark to bright                     |
| 64  |                  | W12 Dimming | 0-255    | Linear dimmer from dark to bright                     |
| 65  | Sides 1W<br>LED  | Dimmer      | 0-255    | Linear dimmer from dark to bright                     |
| 66  |                  | Strobe      | 0-3      | light on                                              |
|     |                  |             | 4-203    | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|     |                  |             | 204--255 | Random Strobe                                         |
| 67  |                  | R1 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 68  |                  | G1 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 69  |                  | B1 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 70  |                  | A1 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 71  |                  | R2 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 72  |                  | G2 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 73  |                  | B2 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 74  |                  | A2 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 75  |                  | R3 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 76  |                  | G3 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 77  |                  | B3 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 78  |                  | A3 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 79  |                  | R4 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 80  |                  | G4 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 81  |                  | B4 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 82  |                  | A4 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 83  |                  | R5 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 84  |                  | G5 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 85  |                  | B5 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 86  |                  | A5 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 87  |                  | R6 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 88  |                  | G6 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 89  |                  | B6 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 90  |                  | A6 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 91  |                  | R7 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 92  |                  | G7 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 93  |                  | B7 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 94  |                  | A7 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 95  |                  | R8 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 96  |                  | G8 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 97  |                  | B8 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 98  |                  | A8 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 99  |                  | R9 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 100 |                  | G9 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 101 |                  | B9 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 102 |                  | A9 Dimming  | 0-255    | Linear dimmer from dark to bright                     |
| 103 |                  | R10 Dimming | 0-255    | Linear dimmer from dark to bright                     |
| 104 |                  | G10 Dimming | 0-255    | Linear dimmer from dark to bright                     |

## 115 CH

|     |                  |             |                            |                                   |
|-----|------------------|-------------|----------------------------|-----------------------------------|
| 105 |                  | B10 Dimming | 0~255                      | Linear dimmer from dark to bright |
| 106 |                  | A10 Dimming | 0~255                      | Linear dimmer from dark to bright |
| 107 |                  | R11 Dimming | 0~255                      | Linear dimmer from dark to bright |
| 108 |                  | G11 Dimming | 0~255                      | Linear dimmer from dark to bright |
| 109 |                  | B11 Dimming | 0~255                      | Linear dimmer from dark to bright |
| 110 |                  | A11 Dimming | 0~255                      | Linear dimmer from dark to bright |
| 111 |                  | R12 Dimming | 0~255                      | Linear dimmer from dark to bright |
| 112 |                  | G12 Dimming | 0~255                      | Linear dimmer from dark to bright |
| 113 |                  | B12 Dimming | 0~255                      | Linear dimmer from dark to bright |
| 114 |                  | A12 Dimming | 0~255                      | Linear dimmer from dark to bright |
| 115 | Function channel | 0-49        | Reserve                    |                                   |
|     |                  | 50-59       | Display normal             |                                   |
|     |                  | 60-69       | Display rotated            |                                   |
|     |                  | 70-79       | Display backlight on       |                                   |
|     |                  | 80-89       | Display backlight off      |                                   |
|     |                  | 90-99       | Dimmer speed normal        |                                   |
|     |                  | 100-109     | Dimmer speed smooth        |                                   |
|     |                  | 110-149     | Fixture reset              |                                   |
|     |                  | 150-159     | Pixel orientation normal   |                                   |
|     |                  | 160-169     | Pixel orientation inverted |                                   |
|     |                  | 170-255     | Reserve                    |                                   |

## 157 CH

|    |                  |             |       |                                   |
|----|------------------|-------------|-------|-----------------------------------|
| 1  | Middle<br>8W LED | R1 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 2  |                  | G1 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 3  |                  | B1 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 4  |                  | W1 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 5  |                  | R2 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 6  |                  | G2 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 7  |                  | B2 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 8  |                  | W2 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 9  |                  | R3 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 10 |                  | G3 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 11 |                  | B3 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 12 |                  | W3 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 13 |                  | R4 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 14 |                  | G4 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 15 |                  | B4 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 16 |                  | W4 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 17 |                  | R5 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 18 |                  | G5 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 19 |                  | B5 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 20 |                  | W5 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 21 |                  | R6 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 22 |                  | G6 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 23 |                  | B6 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 24 |                  | W6 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 25 |                  | R7 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 26 |                  | G7 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 27 |                  | B7 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 28 |                  | W7 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 29 |                  | R8 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 30 |                  | G8 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 31 |                  | B8 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 32 |                  | W8 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 33 |                  | R9 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 34 |                  | G9 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 35 |                  | B9 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 36 |                  | W9 Dimming  | 0~255 | Linear dimmer from dark to bright |
| 37 |                  | R10 Dimming | 0~255 | Linear dimmer from dark to bright |

|     |                  |             |       |                                   |
|-----|------------------|-------------|-------|-----------------------------------|
| 38  | Middle<br>1W LED | G10 Dimming | 0-255 | Linear dimmer from dark to bright |
| 39  |                  | B10 Dimming | 0-255 | Linear dimmer from dark to bright |
| 40  |                  | W10 Dimming | 0-255 | Linear dimmer from dark to bright |
| 41  |                  | R11 Dimming | 0-255 | Linear dimmer from dark to bright |
| 42  |                  | G11 Dimming | 0-255 | Linear dimmer from dark to bright |
| 43  |                  | B11 Dimming | 0-255 | Linear dimmer from dark to bright |
| 44  |                  | W11 Dimming | 0-255 | Linear dimmer from dark to bright |
| 45  |                  | R12 Dimming | 0-255 | Linear dimmer from dark to bright |
| 46  |                  | G12 Dimming | 0-255 | Linear dimmer from dark to bright |
| 47  |                  | B12 Dimming | 0-255 | Linear dimmer from dark to bright |
| 48  |                  | W12 Dimming | 0-255 | Linear dimmer from dark to bright |
| 49  |                  | W1 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 50  |                  | W2 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 51  |                  | W3 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 52  |                  | W4 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 53  |                  | W5 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 54  |                  | W6 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 55  |                  | W7 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 56  |                  | W8 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 57  |                  | W9 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 58  |                  | W10 Dimming | 0-255 | Linear dimmer from dark to bright |
| 59  |                  | W11 Dimming | 0-255 | Linear dimmer from dark to bright |
| 60  |                  | W12 Dimming | 0-255 | Linear dimmer from dark to bright |
| 61  |                  | R1 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 62  |                  | G1 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 63  |                  | B1 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 64  |                  | W1 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 65  |                  | R2 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 66  |                  | G2 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 67  |                  | B2 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 68  |                  | W2 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 69  |                  | R3 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 70  |                  | G3 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 71  |                  | B3 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 72  |                  | W3 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 73  |                  | R4 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 74  |                  | G4 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 75  |                  | B4 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 76  |                  | W4 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 77  |                  | R5 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 78  |                  | G5 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 79  |                  | B5 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 80  |                  | W5 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 81  |                  | R6 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 82  |                  | G6 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 83  |                  | B6 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 84  |                  | W6 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 85  |                  | R7 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 86  |                  | G7 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 87  |                  | B7 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 88  |                  | W7 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 89  |                  | R8 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 90  |                  | G8 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 91  |                  | B8 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 92  |                  | W8 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 93  |                  | R9 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 94  |                  | G9 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 95  |                  | B9 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 96  |                  | W9 Dimming  | 0-255 | Linear dimmer from dark to bright |
| 97  |                  | R10 Dimming | 0-255 | Linear dimmer from dark to bright |
| 98  |                  | G10 Dimming | 0-255 | Linear dimmer from dark to bright |
| 99  |                  | B10 Dimming | 0-255 | Linear dimmer from dark to bright |
| 100 |                  | W10 Dimming | 0-255 | Linear dimmer from dark to bright |
| 101 |                  | R11 Dimming | 0-255 | Linear dimmer from dark to bright |
| 102 |                  | G11 Dimming | 0-255 | Linear dimmer from dark to bright |

|     |                  |             |         |                                   |
|-----|------------------|-------------|---------|-----------------------------------|
| 103 | Sides 1W<br>LED  | B11 Dimming | 0~255   | Linear dimmer from dark to bright |
| 104 |                  | W11 Dimming | 0~255   | Linear dimmer from dark to bright |
| 105 |                  | R12 Dimming | 0~255   | Linear dimmer from dark to bright |
| 106 |                  | G12 Dimming | 0~255   | Linear dimmer from dark to bright |
| 107 |                  | B12 Dimming | 0~255   | Linear dimmer from dark to bright |
| 108 |                  | W12 Dimming | 0~255   | Linear dimmer from dark to bright |
| 109 |                  | R13 Dimming | 0~255   | Linear dimmer from dark to bright |
| 110 |                  | G13 Dimming | 0~255   | Linear dimmer from dark to bright |
| 111 |                  | B13 Dimming | 0~255   | Linear dimmer from dark to bright |
| 112 |                  | W13 Dimming | 0~255   | Linear dimmer from dark to bright |
| 113 |                  | R14 Dimming | 0~255   | Linear dimmer from dark to bright |
| 114 |                  | G14 Dimming | 0~255   | Linear dimmer from dark to bright |
| 115 |                  | B14 Dimming | 0~255   | Linear dimmer from dark to bright |
| 116 |                  | W14 Dimming | 0~255   | Linear dimmer from dark to bright |
| 117 |                  | R15 Dimming | 0~255   | Linear dimmer from dark to bright |
| 118 |                  | G15 Dimming | 0~255   | Linear dimmer from dark to bright |
| 119 |                  | B15 Dimming | 0~255   | Linear dimmer from dark to bright |
| 120 |                  | W15 Dimming | 0~255   | Linear dimmer from dark to bright |
| 121 |                  | R16 Dimming | 0~255   | Linear dimmer from dark to bright |
| 122 |                  | G16 Dimming | 0~255   | Linear dimmer from dark to bright |
| 123 |                  | B16 Dimming | 0~255   | Linear dimmer from dark to bright |
| 124 |                  | W16 Dimming | 0~255   | Linear dimmer from dark to bright |
| 125 |                  | R17 Dimming | 0~255   | Linear dimmer from dark to bright |
| 126 |                  | G17 Dimming | 0~255   | Linear dimmer from dark to bright |
| 127 |                  | B17 Dimming | 0~255   | Linear dimmer from dark to bright |
| 128 |                  | W17 Dimming | 0~255   | Linear dimmer from dark to bright |
| 129 |                  | R18 Dimming | 0~255   | Linear dimmer from dark to bright |
| 130 |                  | G18 Dimming | 0~255   | Linear dimmer from dark to bright |
| 131 |                  | B18 Dimming | 0~255   | Linear dimmer from dark to bright |
| 132 |                  | W18 Dimming | 0~255   | Linear dimmer from dark to bright |
| 133 |                  | R19 Dimming | 0~255   | Linear dimmer from dark to bright |
| 134 |                  | G19 Dimming | 0~255   | Linear dimmer from dark to bright |
| 135 |                  | B19 Dimming | 0~255   | Linear dimmer from dark to bright |
| 136 |                  | W19 Dimming | 0~255   | Linear dimmer from dark to bright |
| 137 |                  | R20 Dimming | 0~255   | Linear dimmer from dark to bright |
| 138 |                  | G20 Dimming | 0~255   | Linear dimmer from dark to bright |
| 139 |                  | B20 Dimming | 0~255   | Linear dimmer from dark to bright |
| 140 |                  | W20 Dimming | 0~255   | Linear dimmer from dark to bright |
| 141 |                  | R21 Dimming | 0~255   | Linear dimmer from dark to bright |
| 142 |                  | G21 Dimming | 0~255   | Linear dimmer from dark to bright |
| 143 |                  | B21 Dimming | 0~255   | Linear dimmer from dark to bright |
| 144 |                  | W21 Dimming | 0~255   | Linear dimmer from dark to bright |
| 145 |                  | R22 Dimming | 0~255   | Linear dimmer from dark to bright |
| 146 |                  | G22 Dimming | 0~255   | Linear dimmer from dark to bright |
| 147 |                  | B22 Dimming | 0~255   | Linear dimmer from dark to bright |
| 148 |                  | W22 Dimming | 0~255   | Linear dimmer from dark to bright |
| 149 |                  | R23 Dimming | 0~255   | Linear dimmer from dark to bright |
| 150 |                  | G23 Dimming | 0~255   | Linear dimmer from dark to bright |
| 151 |                  | B23 Dimming | 0~255   | Linear dimmer from dark to bright |
| 152 |                  | W23 Dimming | 0~255   | Linear dimmer from dark to bright |
| 153 |                  | R24 Dimming | 0~255   | Linear dimmer from dark to bright |
| 154 |                  | G24 Dimming | 0~255   | Linear dimmer from dark to bright |
| 155 |                  | B24 Dimming | 0~255   | Linear dimmer from dark to bright |
| 156 |                  | W24 Dimming | 0~255   | Linear dimmer from dark to bright |
| 157 | Function channel |             | 0-49    | Reserve                           |
|     |                  |             | 50-59   | Display normal                    |
|     |                  |             | 60-69   | Display rotated                   |
|     |                  |             | 70-79   | Display backlight on              |
|     |                  |             | 80-89   | Display backlight off             |
|     |                  |             | 90-99   | Dimmer speed normal               |
|     |                  |             | 100-109 | Dimmer speed smooth               |
|     |                  |             | 110-149 | Fixture reset                     |
|     |                  |             | 150-159 | Pixel orientation normal          |
|     |                  |             | 160-169 | Pixel orientation inverted        |
|     |                  |             | 170-255 | Reserve                           |

|    |                  |             |         |                                                        |
|----|------------------|-------------|---------|--------------------------------------------------------|
| 1  | Middle<br>8W LED | Dimmer      | 0-255   | Linear dimmer from dark to bright                      |
| 2  |                  | Strobe      | 0-3     | light on                                               |
|    |                  |             | 4-203   | Synchronous Strobe speed from slow to fast ( 1HZ-25HZ) |
|    |                  |             | 204-255 | Random Strobe                                          |
| 3  |                  | R1 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 4  |                  | G1 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 5  |                  | B1 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 6  |                  | W1 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 7  |                  | R2 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 8  |                  | G2 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 9  |                  | B2 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 10 |                  | W2 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 11 |                  | R3 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 12 |                  | G3 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 13 |                  | B3 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 14 |                  | W3 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 15 |                  | R4 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 16 |                  | G4 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 17 |                  | B4 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 18 |                  | W4 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 19 |                  | R5 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 20 |                  | G5 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 21 |                  | B5 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 22 |                  | W5 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 23 |                  | R6 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 24 |                  | G6 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 25 |                  | B6 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 26 |                  | W6 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 27 |                  | R7 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 28 |                  | G7 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 29 |                  | B7 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 30 |                  | W7 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 31 |                  | R8 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 32 |                  | G8 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 33 |                  | B8 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 34 |                  | W8 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 35 |                  | R9 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 36 |                  | G9 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 37 |                  | B9 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 38 |                  | W9 Dimming  | 0-255   | Linear dimmer from dark to bright                      |
| 39 |                  | R10 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 40 |                  | G10 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 41 |                  | B10 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 42 |                  | W10 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 43 |                  | R11 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 44 |                  | G11 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 45 |                  | B11 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 46 |                  | W11 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 47 |                  | R12 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 48 |                  | G12 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 49 |                  | B12 Dimming | 0-255   | Linear dimmer from dark to bright                      |
| 50 |                  | W12 Dimming | 0-255   | Linear dimmer from dark to bright                      |

|     |                  |             |                                   |                                                       |
|-----|------------------|-------------|-----------------------------------|-------------------------------------------------------|
| 51  | Middle<br>1W LED | Dimmer      | 0-255                             | Linear dimmer from dark to bright                     |
| 52  |                  | Strobe      | 0-3                               | light on                                              |
|     |                  |             | 4-203                             | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|     |                  |             | 204-255                           | Random Strobe                                         |
| 53  |                  | W1 Dimming  | 0-255                             | Linear dimmer from dark to bright                     |
| 54  |                  | W2 Dimming  | 0-255                             | Linear dimmer from dark to bright                     |
| 55  |                  | W3 Dimming  | 0-255                             | Linear dimmer from dark to bright                     |
| 56  |                  | W4 Dimming  | 0-255                             | Linear dimmer from dark to bright                     |
| 57  |                  | W5 Dimming  | 0-255                             | Linear dimmer from dark to bright                     |
| 58  |                  | W6 Dimming  | 0-255                             | Linear dimmer from dark to bright                     |
| 59  |                  | W7 Dimming  | 0-255                             | Linear dimmer from dark to bright                     |
| 60  |                  | W8 Dimming  | 0-255                             | Linear dimmer from dark to bright                     |
| 61  |                  | W9 Dimming  | 0-255                             | Linear dimmer from dark to bright                     |
| 62  |                  | W10 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 63  |                  | W11 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 64  |                  | W12 Dimming | 0-255                             | Linear dimmer from dark to bright                     |
| 65  |                  |             | Dimmer                            | 0-255                                                 |
| 66  | Strobe           |             | 0-3                               | light on                                              |
|     |                  |             | 4-203                             | Synchronous Strobe speed from slow to fast (1HZ-25HZ) |
|     |                  |             | 204-255                           | Random Strobe                                         |
| 67  | R1 Dimming       |             | 0-255                             | Linear dimmer from dark to bright                     |
| 68  | G1 Dimming       |             | 0-255                             | Linear dimmer from dark to bright                     |
| 69  | B1 Dimming       |             | 0-255                             | Linear dimmer from dark to bright                     |
| 70  | W1 Dimming       |             | 0-255                             | Linear dimmer from dark to bright                     |
| 71  | R2 Dimming       |             | 0-255                             | Linear dimmer from dark to bright                     |
| 72  | G2 Dimming       |             | 0-255                             | Linear dimmer from dark to bright                     |
| 73  | B2 Dimming       |             | 0-255                             | Linear dimmer from dark to bright                     |
| 74  | W2 Dimming       |             | 0-255                             | Linear dimmer from dark to bright                     |
| 75  | R3 Dimming       |             | 0-255                             | Linear dimmer from dark to bright                     |
| 76  | G3 Dimming       |             | 0-255                             | Linear dimmer from dark to bright                     |
| 77  | B3 Dimming       |             | 0-255                             | Linear dimmer from dark to bright                     |
| 78  | W3 Dimming       |             | 0-255                             | Linear dimmer from dark to bright                     |
| 79  | R4 Dimming       |             | 0-255                             | Linear dimmer from dark to bright                     |
| 80  | G4 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 81  | B4 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 82  | W4 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 83  | R5 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 84  | G5 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 85  | B5 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 86  | W5 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 87  | R6 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 88  | G6 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 89  | B6 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 90  | W6 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 91  | R7 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 92  | G7 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 93  | B7 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 94  | W7 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 95  | R8 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 96  | G8 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 97  | B8 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 98  | W8 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 99  | R9 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 100 | G9 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 101 | B9 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 102 | W9 Dimming       | 0-255       | Linear dimmer from dark to bright |                                                       |
| 103 | R10 Dimming      | 0-255       | Linear dimmer from dark to bright |                                                       |
| 104 | G10 Dimming      | 0-255       | Linear dimmer from dark to bright |                                                       |

|     |              |             |       |                                   |
|-----|--------------|-------------|-------|-----------------------------------|
| 105 | Sides 1W LED | B10 Dimming | 0~255 | Linear dimmer from dark to bright |
| 106 |              | W10 Dimming | 0~255 | Linear dimmer from dark to bright |
| 107 |              | R11 Dimming | 0~255 | Linear dimmer from dark to bright |
| 108 |              | G11 Dimming | 0~255 | Linear dimmer from dark to bright |
| 109 |              | B11 Dimming | 0~255 | Linear dimmer from dark to bright |
| 110 |              | W11 Dimming | 0~255 | Linear dimmer from dark to bright |
| 111 |              | R12 Dimming | 0~255 | Linear dimmer from dark to bright |
| 112 |              | G12 Dimming | 0~255 | Linear dimmer from dark to bright |
| 113 |              | B12 Dimming | 0~255 | Linear dimmer from dark to bright |
| 114 |              | W12 Dimming | 0~255 | Linear dimmer from dark to bright |
| 115 |              | R13 Dimming | 0~255 | Linear dimmer from dark to bright |
| 116 |              | G13 Dimming | 0~255 | Linear dimmer from dark to bright |
| 117 |              | B13 Dimming | 0~255 | Linear dimmer from dark to bright |
| 118 |              | W13 Dimming | 0~255 | Linear dimmer from dark to bright |
| 119 |              | R14 Dimming | 0~255 | Linear dimmer from dark to bright |
| 120 |              | G14 Dimming | 0~255 | Linear dimmer from dark to bright |
| 121 |              | B14 Dimming | 0~255 | Linear dimmer from dark to bright |
| 122 |              | W14 Dimming | 0~255 | Linear dimmer from dark to bright |
| 123 |              | R15 Dimming | 0~255 | Linear dimmer from dark to bright |
| 124 |              | G15 Dimming | 0~255 | Linear dimmer from dark to bright |
| 125 |              | B15 Dimming | 0~255 | Linear dimmer from dark to bright |
| 126 |              | W15 Dimming | 0~255 | Linear dimmer from dark to bright |
| 127 |              | R16 Dimming | 0~255 | Linear dimmer from dark to bright |
| 128 |              | G16 Dimming | 0~255 | Linear dimmer from dark to bright |
| 129 |              | B16 Dimming | 0~255 | Linear dimmer from dark to bright |
| 130 |              | W16 Dimming | 0~255 | Linear dimmer from dark to bright |
| 131 |              | R17 Dimming | 0~255 | Linear dimmer from dark to bright |
| 132 |              | G17 Dimming | 0~255 | Linear dimmer from dark to bright |
| 133 |              | B17 Dimming | 0~255 | Linear dimmer from dark to bright |
| 134 |              | W17 Dimming | 0~255 | Linear dimmer from dark to bright |
| 135 |              | R18 Dimming | 0~255 | Linear dimmer from dark to bright |
| 136 |              | G18 Dimming | 0~255 | Linear dimmer from dark to bright |
| 137 |              | B18 Dimming | 0~255 | Linear dimmer from dark to bright |
| 138 |              | W18 Dimming | 0~255 | Linear dimmer from dark to bright |
| 139 |              | R19 Dimming | 0~255 | Linear dimmer from dark to bright |
| 140 |              | G19 Dimming | 0~255 | Linear dimmer from dark to bright |
| 141 |              | B19 Dimming | 0~255 | Linear dimmer from dark to bright |
| 142 |              | W19 Dimming | 0~255 | Linear dimmer from dark to bright |
| 143 |              | R20 Dimming | 0~255 | Linear dimmer from dark to bright |
| 144 |              | G20 Dimming | 0~255 | Linear dimmer from dark to bright |
| 145 |              | B20 Dimming | 0~255 | Linear dimmer from dark to bright |
| 146 |              | W20 Dimming | 0~255 | Linear dimmer from dark to bright |
| 147 |              | R21 Dimming | 0~255 | Linear dimmer from dark to bright |
| 148 |              | G21 Dimming | 0~255 | Linear dimmer from dark to bright |
| 149 |              | B21 Dimming | 0~255 | Linear dimmer from dark to bright |
| 150 |              | W21 Dimming | 0~255 | Linear dimmer from dark to bright |
| 151 |              | R22 Dimming | 0~255 | Linear dimmer from dark to bright |
| 152 |              | G22 Dimming | 0~255 | Linear dimmer from dark to bright |
| 153 |              | B22 Dimming | 0~255 | Linear dimmer from dark to bright |
| 154 |              | W22 Dimming | 0~255 | Linear dimmer from dark to bright |
| 155 |              | R23 Dimming | 0~255 | Linear dimmer from dark to bright |
| 156 |              | G23 Dimming | 0~255 | Linear dimmer from dark to bright |
| 157 |              | B23 Dimming | 0~255 | Linear dimmer from dark to bright |
| 158 |              | W23 Dimming | 0~255 | Linear dimmer from dark to bright |
| 159 |              | R24 Dimming | 0~255 | Linear dimmer from dark to bright |
| 160 |              | G24 Dimming | 0~255 | Linear dimmer from dark to bright |
| 161 |              | B24 Dimming | 0~255 | Linear dimmer from dark to bright |
| 162 |              | W24 Dimming | 0~255 | Linear dimmer from dark to bright |

163 CH

|     |                  |         |                            |
|-----|------------------|---------|----------------------------|
| 163 | Function channel | 0-49    | Reserve                    |
|     |                  | 50-59   | Display normal             |
|     |                  | 60-69   | Display rotated            |
|     |                  | 70-79   | Display backlight on       |
|     |                  | 80-89   | Display backlight off      |
|     |                  | 90-99   | Dimmer speed normal        |
|     |                  | 100-109 | Dimmer speed smooth        |
|     |                  | 110-149 | Fixture reset              |
|     |                  | 150-159 | Pixel orientation normal   |
|     |                  | 160-169 | Pixel orientation inverted |
|     |                  | 170-255 | Reserve                    |

# SPECIFICATIONS

| Power                                                     |                                                                                  |
|-----------------------------------------------------------|----------------------------------------------------------------------------------|
| Input voltage & rate                                      | 100-240V, 50/60Hz                                                                |
| Standby power                                             | 9W                                                                               |
| Nominal total power consumption (at nominal voltage 230V) | 220W                                                                             |
| Max Power (at nominal voltage 230V):                      | 380W                                                                             |
| Typical current (at nominal voltage 230V)                 | 0.95A                                                                            |
| Cos φ                                                     | PF≥0.98                                                                          |
| Surge test (Pulse Voltage)                                | EN61000-4-5 / Class 3, 2.5KV                                                     |
| Power plug type                                           | Special power and data combination plug                                          |
| Configuration                                             |                                                                                  |
| LED color                                                 | Middle: 12 x RGB-WW 4in1 led. Strobe: 48 x white led. Both sides: 288 x RGBA led |
| LED color temperature WW LED                              | 6500±300K                                                                        |
| Quantity of LED                                           | 348 pcs                                                                          |
| Dimming frequency                                         | 16K                                                                              |
| Dimmer resolution                                         | 8bit                                                                             |
| Optical                                                   |                                                                                  |
| Beam angle                                                | 20° special black body lens to prevent annoying projection                       |
| Photometric                                               |                                                                                  |
| Output @1M                                                | 12000Lux                                                                         |
| Output @5M                                                | 1300Lux                                                                          |
| Heat management                                           |                                                                                  |
| Cooling type:                                             | Passive cooling                                                                  |
| MAX. Ambient temp (Ta max)                                | 45 C                                                                             |
| MIN. Ambient temp (Ta min)                                | -20 C                                                                            |
| MAX housing temp.(ta=25°C)                                | 57 C                                                                             |
| MAX housing temp.(ta=40°C)                                | 56 C                                                                             |
| Menu                                                      |                                                                                  |
| Auto program                                              | Yes                                                                              |
| Static color                                              | Yes                                                                              |
| Manual calibration                                        | Yes                                                                              |
| Factory calibration                                       | Yes                                                                              |
| Strobe speed                                              | 1-25HZ                                                                           |
| Random strobe                                             | Yes                                                                              |

\* PF = power factor. Measurements made at nominal voltage with all LEDs at full intensity. Allow for a deviation of +/- 10%.

Control

|                           |                                                          |
|---------------------------|----------------------------------------------------------|
| Control protocol          | USITT DMX512/1990                                        |
| DMX channel range         | 12/21/23/25/30/31/34/38/39/42/57/61/115/157/163 channels |
| RDM                       | Yes                                                      |
| RDM compliance            | ANSI/ESTA E.120                                          |
| CRMX                      | None                                                     |
| ACN                       | None                                                     |
| DMX input connection      | DMX 5P via special combination cable                     |
| Data input (artnet, SACN) | None                                                     |

Hardware

|                        |                      |
|------------------------|----------------------|
| Interface              | Backlite TFT display |
| Software upload method | XLR via special box  |

Installation

|           |      |
|-----------|------|
| IP rating | IP65 |
|-----------|------|

Housing

|                         |     |
|-------------------------|-----|
| Safety attachment point | Yes |
|-------------------------|-----|

Physical

|                             |          |
|-----------------------------|----------|
| Net product weight          | 5,7 kg   |
| Machine dimensions - Length | 999.6 mm |
| Machine dimensions - Width  | 188 mm   |
| Machine dimensions - Height | 95 mm    |

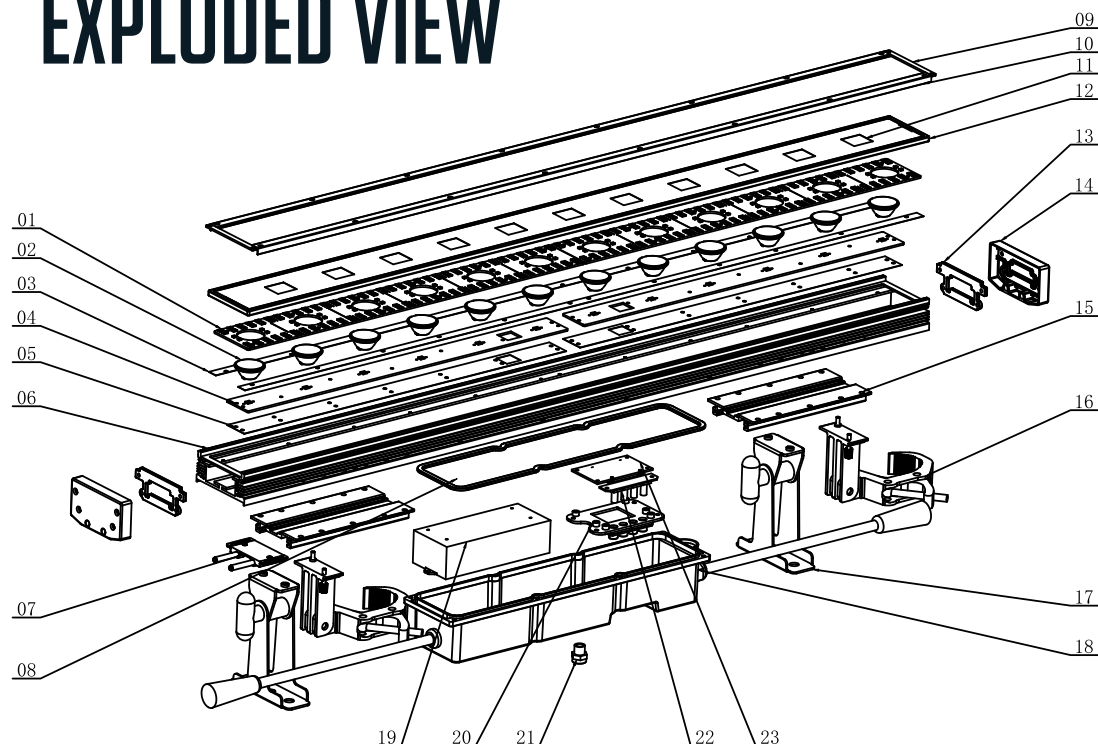
Accessories

|                |                                    |
|----------------|------------------------------------|
| Included items | Stand and foldable bracket, manual |
|----------------|------------------------------------|

Approvals

|                         |                |
|-------------------------|----------------|
| Approved certifications | EMC, LVD, RoHS |
|-------------------------|----------------|

# EXPLODED VIEW



CLF LEDbar EFF:

|    |            |                                  |
|----|------------|----------------------------------|
| 1  | CLF-32-010 | Ledboard 1A                      |
| 1  | CLF-32-011 | Ledboard 1B                      |
| 2  | CLF-32-014 | Lens 20°                         |
| 3  | CLF-32-004 | Ledboard 1 thermal pad           |
| 4  | CLF-32-008 | Ledboard 2A                      |
| 4  | CLF-32-009 | Ledboard 2B                      |
| 5  | CLF-32-005 | Ledboard 2 thermal pad           |
| 6  | CLF-32-020 | Radiator housing                 |
| 7  | CLF-32-025 | Connect plate + locking pins     |
| 8  | CLF-32-002 | Power supply housing rubber      |
| 9  | CLF-32-023 | Glass rubber ring pressure plate |
| 10 | CLF-32-024 | Glass rubber bead                |
| 11 | CLF-32-012 | Tempered front glass             |
| 12 | CLF-32-002 | Rubber ring for frontglass       |
| 13 | CLF-32-001 | Side rubber ring                 |
| 14 | CLF-32-021 | radiator side part               |
| 15 | CLF-32-018 | Clamp slitting rail              |
| 16 | CLF-32-016 | Foldable clamps                  |
| 17 | CLF-32-017 | metal foot                       |
| 18 | CLF-32-019 | Power supply housing             |
| 19 | CLF-32-013 | Power supply                     |
| 20 | CLF-32-022 | Display board cover              |
| 21 | CLF-32-015 | Breathing valve                  |
| 22 | CLF-32-007 | Button PCB                       |
| 23 | CLF-32-006 | Display board                    |



CLFLIGHTING

[WWW.CLF-LIGHTING.COM](http://WWW.CLF-LIGHTING.COM)