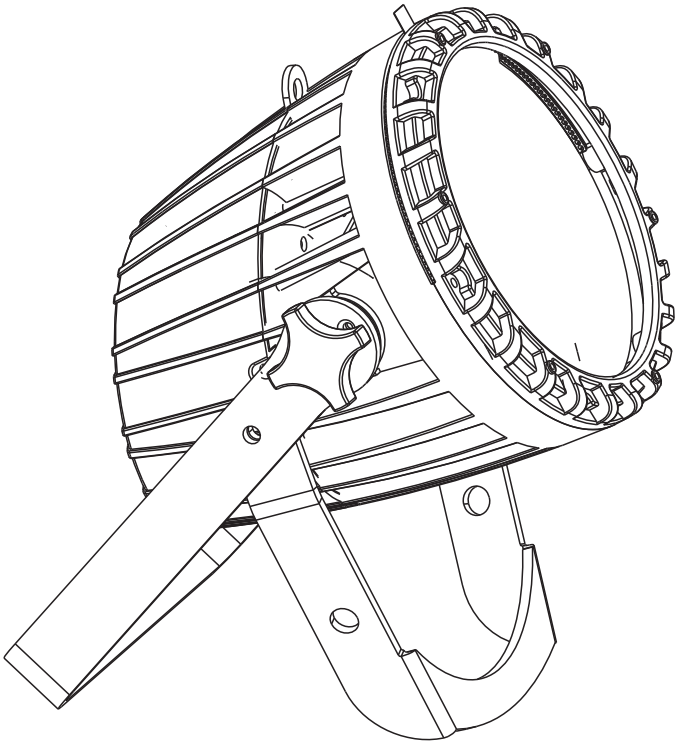
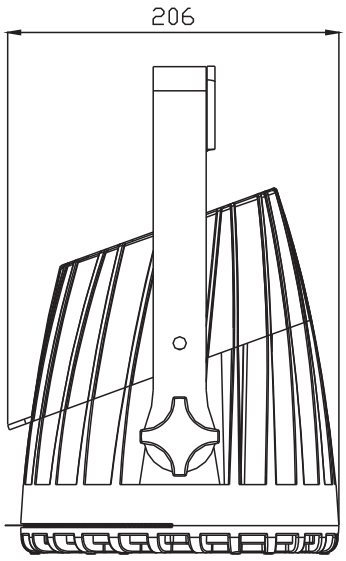
# CLF hercules

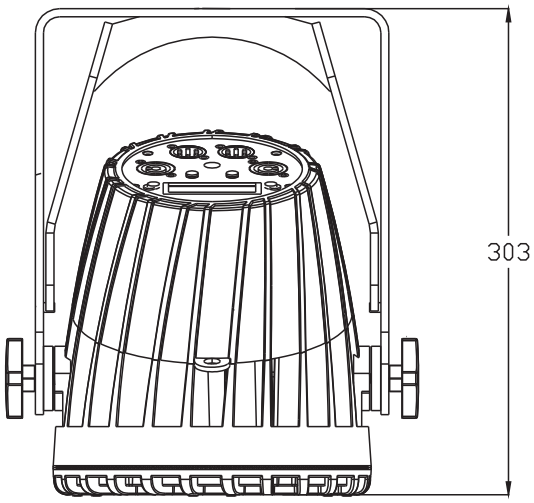


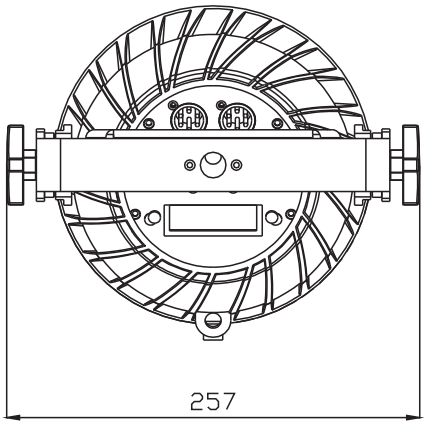
V 1.0 JANUARY 2015

# Dimensions

All dimensions are in millimeters



# Safety Information

**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 3 (high risk) LED product according to EN 62471. Do not look into the beam at a distance of less than 8.3 meters from the front surface 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 through put cables must be3-conductor, rated 20 A minimum, 1.5 mm² (16 AWG) minimum conductor size,Power input and through put cables must be3-conductor, rated 20 A minimum, 1.5 mm² (16 AWG) minimum conductor size ,exrta hard usage type(ST or equivalent). The cable must be heat-rewistant to 90° C (194° F) minimum.
- Use only PowerCon cable connectors to connect to power input sockets. Use only PowerCon cable connectors to connect to power throughput 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.

- Do not expose the fixture to rain or moisture.
- 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**

- Do not operate the fixture if the ambient temperature (Ta) exceeds 40° C (104° F).
- The exterior of the fixture becomes hot during use. Avoid contact by persons and materials. Allow the fixture to cool for at least 10 minutes before handling.

- Keep all combustible materials (e.g. fabric, wood, paper) at least 100 mm (3.9 in.) away from the head.
- 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 (7.9 ins.) 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 continuously at LEDs from a distance of less than 8.3 meters (27 ft. 3 inches) from the front surface of the fixture without protective eyewear such as shade 4-5 welding goggles. At less than this distance, the LED emission can cause eye injury or irritation. At distances of 8.3 meters (27 ft. 3 inches) and above, light output is harmless to the naked eye provided that the eye's natural aversion response is not overcome.
- Do not look at LEDs with magnifiers, telescopes, binoculars or similar optical instruments that may concentrate the light output.

- Ensure that persons are not looking at the LEDs from within 8.3 meters (27 ft. 3 inches) when the product lights up suddenly. This can happen when power is applied, when the product receives a DMX signal, or when SERVICE menu items are selected.

- 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.

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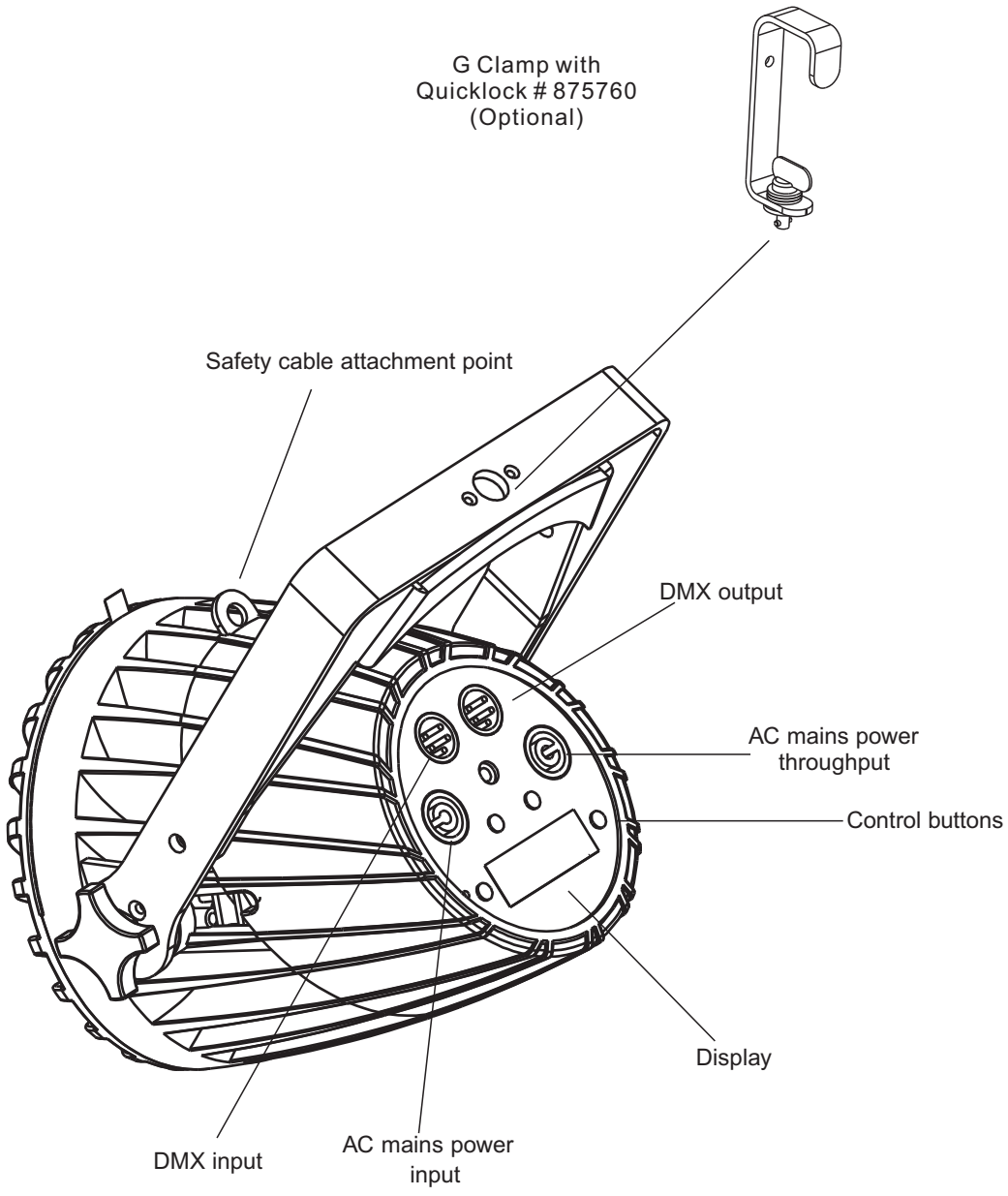
# Fixture overview




*Note: head fan grill in production models is rotated 90° compared to this illustration.*

# Introduction

- This compact LED-based Parcan features:
- RGBW color control with color temperature control
- 6 in 1 LED (Red,Green,Blue,White,Amber,Purple)
- Onboard control panel and backlit LCD graphic display
- Smooth electronic dimming
- Electronic shutter with strobe and pulse effects
- DMX control
- choose different degrees of filter sheet to change the shape of the light

## Using for the first time

***Warning! Read "Safety Information" on page 3 before installing, powering, operating or servicing the fixture. Before applying power to the fixture:***.

- Carefully review "Safety Information" starting on page 3.
- 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 page 8. Install a PowerCon power input connector on a suitable power cable. If drawing power from a mains power outlet, install a suitable power plug on the power cable.

# AC power

***Warning! Read "Safety Information" starting on page 3 before connecting the fixrures to AC mains power.***

***Warning! For protection from electric shock, the fixture must be grounded (earthed). The powerdistribution circuit must be equipped with a fuse or circuit breaker and ground-fault (earth-fault) protection.***

***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 live PowerCon connectors 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.***

The fixture can be hard-wired to a building electrical installation if you want to install it permanently, or a power plug that is suitable for the local power outlets can be installed on the power cable.

## Power voltage

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

The fixtures accept 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 that specified on the fixture's serial number label.

## Power cables and power plug

Power input and throughput cables must be rated 20 A minimum, have three conductors 1.5 mm² (16 AWG) minimum conductor size and an outer cable diameter of 5 - 15 mm (0.2 - 0.6 in.). Cables must be hard usage type (SJT or equivalent) and heat-resistant to 90° C (194° F) minimum. In the EU the cable must be HAR approved or equivalent.

If you install a power plug on the power cable, install a grounding-type (earthed) plug that is rated 20 A minimum. Follow the plug manufacturer's instructions. Table 1 shows standard wire color-coding schemes and some possible pin identification schemes; if pins are not clearly identified, or if you have any doubts

| Wire Color (EU models) | Wire Color (US models) | Conductor | Symbol | Screw (US) |
|---|---|---|---|---|
| brown | black | live | L | yellow or brass |
| blue | white | neutral | N | silver |
| yellow/green | green | ground (earth) | ⏚ or ⏚ | green |

Table 1: Wire color-codig and power connections

## Relaying power to other devices

***Warning! Do not connect more than ten fixture fixtures in total to AC mains power in one interconnected chain***

Power can be relayed to another device via the light-grey PowerCon throughput socket that accepts a light-grey PowerCon cable connector. Note that blue input and light-grey throughput connectors have different designs: one type cannot be connected to the other.

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

- A hard usage, three-conductor, 16 AWG or 1.5 $mm^2$ cable with SJT or equivalent cable jacket must be used to connect the first fixture to AC mains power and to interconnect all the fixtures in the chain up to a maximum of seven fixtures in total.
- Light-grey PowerCon connectors must be used to draw AC mains power from the fixtures' power throughput sockets and blue PowerCon connectors must be used to supply power at the fixture's power input sockets.
- No matter what the AC mains power voltage is, do not connect more than ten fixture fixtures in total(i.e. including the first fixture) to AC mains power in one interconnected daisy chain using power input and throughput connectors.

# Data link

A DMX 512 data link is required in order to control a fixture via DMX.

The fixture has 3-pin XLR connectors for DMX data input and output. The pin-out on all connectors is pin 1 = shield, pin 2 = cold (-), and pin 3 = hot (+).

Or the fixture has 5-pin XLR connectors for DMX data input and output. The pin-out on all connectors is

pin 1 = shield, pin 2 = cold (-), and pin 3 = hot (+). Pins 4 and 5 in the 5-pin XLR connectors are not used

## Connecting the data link

To add more fixtures or groups of fixtures when the above limit is reached, add a DMX universe and another daisy-chained link.

Use shielded twisted-pair cable designed for RS-485 devices: standard microphone cable cannot transmit control data reliably over long runs. 24 AWG cable is suitable for runs up to 300 meters. Heavier gauge cable and/or an amplifier is recommended for longer runs.

## Tips for reliable data transmission

To connect the fixture to data:

1. Connect the DMX data output from the controller to the closest fixture’ s male 3-pin XLR DMX input connector.

2. Connect the DMX output of the fixture closest to the controller to the DMX input of the next fixture and continue connecting fixtures output to input.

# 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. Do not apply power to the fixture if it is standing freely or the fixture can be moved.***

***Warning! If the fixture can cause injury or damage it if falls, attach an approved safety cable to one of the safety cable attachment points on the base (see "Fixture overview" on page 6).***

***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 head, that there is free airflow around the fixture and that there are no flammable materials nearby.***

***Make sure that it is impossible for the moving head to collide with another fixture or other object...***

## 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 air vents in the base 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" on page 6) if the fixture is to be installed in any location where it may fall and cause injury or damage if the primary attachment fails.***

3. 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.

4. 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" on page 6). Do not use any other part of the fixture as a safety cable attachment point.

5. Check that the head will not collide with other fixtures or objects.

# Setup

***Warning! Read "Safety Information" on page 3 before installing, powering, operating or servicing 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" on page 22 for a complete list of menus and commands.

Using the control buttons

- To enter a menu, select a function or apply a selection, press ► (Enter).
- Press ▲ (Up) and ▼ (Down) to scroll within a menu or adjust values.
- To escape a function or move back one level in the menu structure, press ◄ (MODE).
- Holding down the "UP" or "DOWN" button for more than 3 seconds, the MENU display rotated 180°

## 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 own control channels.

The DMX address is configured using the DMX ADDRESS menu in the control panel.

- In order to facilitate for inspection the signal, If the display to flicker when it's not receiving any signalNotes

## WDMX control

Press the button "UP" to switch off Wireless DMX or disconnect with all connected Transmitters.

Press the button "DOWN' to set the unit in the "ready to connect with all not connected transmitters' mode. If you press the mode button on the Wireless solution transmitter all the ready to connect units will be connected.

If the unit is successfully connected in the home display the sign "". Appears. If the unit is not connected to a transmitter or switched off no "". sign is visible

## CONTROL MODE

**Standard** and **Manual** modes

DMX control mode is selected in the **CONTROL MODE** menu. The fixture has five DMX control modes:

- 6 channels :Red+Green+Blue+White+Amber+Purple
- 8 channels :Dimmer+Red+Green+Blue+White+Amber+Purple+ strobe
- 12 channels :Dimmer++Red+Green+Blue+White+Amber+Purple+ strobe+Macro + strobe + AUTO + AUTO speed+ dimming speed
- HSV: Hue+Saturation+Value
- HSI: Hue+Saturation+Intensity

## Dimming

- **FAST** is the default setting. It gives a virtually instantaneous reaction when you dim from one intensity to another, but dimming slowly from one intensity to another may appear slightly uneven.
- The **SMOOTH** setting gives smoother dimming during slow changes in intensity, but it limits the speed of dimming changes slightly. This makes it ideal for slow, smooth dimming, but a short time-lag may be noticeable if you try to dim quickly from one intensity to another.

## Restoring factory default settings

The fixture factory default settings can be restored by applying a **FACTORY SETTING → LOAD** command.

# Operation and effects

***Warning! Read "Safety Information" starting on page 3 before installing, powering, operating or servicing the fixture.***

This section describes only DMX control features that require particular explanation. See "DMX protocols" on page 16 for a full list of the DMX channels and values required to control the different effects.

## Effects

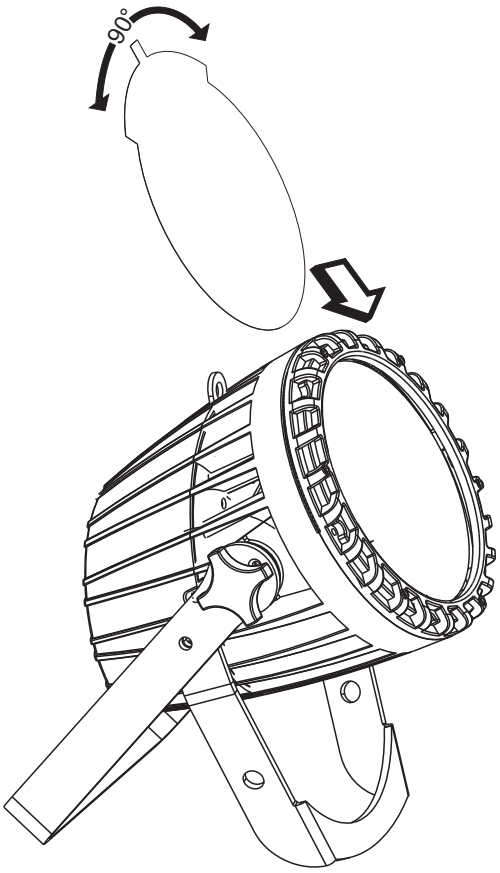
**Shutter effect**

The electronic 'shutter' effect available for the fixture provides instant open and blackout,
variable speed regular and random strobe and opening/closing pulse effects as well as burst and sine wave effects.

**Controlling color**

## Filter sheet

You can choose different degrees of filter sheet to change the shape of the light, and can change the Angle of the light rotating filter sheet



# Service and maintenance

***Warning! Read "Safety Information" on page 3 before servicing the fixture.***

***Warning! Disconnect the fixture from AC mains power and allow to cool for at least 10 minutes before handling. Do not view the light output from less than 8.3 meters (27 ft. 3 inches) without shade 4–5 welding goggles. Be prepared for the fixture to light suddenly if connected to power.***

***Warning! Refer any service operation not described in this user manual to a qualified service technician.***

***Important! Excessive dust, smoke fluid, and particle buildup degrades performance, causes overheating and will damage the fixture. Damage caused by inadequate cleaning or maintenance is not covered by the product warranty.***

It is policy to apply the strictest possible calibration procedures and use the best quality materials available to ensure optimum performance and the longest possible component lifetimes. However, LEDs are subject to wear and tear over the life of the product, resulting in gradual changes in color and overall brightness over many thousands of hours of use. The extent of wear and tear depends heavily on operating conditions and environment, so it is impossible to specify precisely whether and to what extent LED performance will be affected. However, you may eventually need to ask Professional to replace LEDs if their characteristics are affected by wear and tear after an extended period of use and if you require fixtures to perform within very precise optical and color parameters.

The manufacturer's LED lifetime data is based on performance under the manufacturer's test conditions. As with all LEDs, the gradual reduction in luminous output will be accelerated when LEDs are used in a fixture, where conditions are much tougher than in manufacturer's testing. To maximize LED lifetimes, keep the ambient temperature as low as possible and drive the LEDs no harder and for no longer than necessary

## Cleaning

Cleaning schedules for lighting fixtures vary greatly depending on the operating environment. It is therefore impossible to specify precise cleaning intervals for the fixture. Environmental factors that may result in a need for frequent cleaning include:

- Use of smoke or fog machines.
- High airflow rates (near air conditioning vents, for example).
- Presence of cigarette smoke.
- Airborne dust (from stage effects, building structures and fittings or the natural environment at outdoor events, for example).

If one or more of these factors is present, inspect fixtures within their first 100 hours of operation to see whether cleaning is necessary. Check again at frequent intervals. This procedure will allow you to assess cleaning requirements in your particular situation.

Use gentle pressure only when cleaning, and work in a clean, well-lit area. Do not use any product that contains solvents or abrasives, as these can cause surface damage.

**Warning!Disconnect from power and allow to cool before cleaning.**

To clean the fixture:

1. Disconnect the fixture from power and allow it to cool for at least 10 minutes.
2. Vacuum or gently blow away dust and loose particles from the outside of the fixture and the air vents at the back and sides of the head and in the base with low-pressure compressed air.

3. Remove the central screw from the grill on the front of the head, remove the grill and clean the LED lenses by wiping gently with a soft, clean lint-free cloth moistened with a weak detergent solution. Do not rub the surface hard: lift particles off with a soft repeated press. Dry with a soft, clean, lint-free cloth or low-pressure compressed air. Remove stuck particles with an unscented tissue or cotton swab moistened with glass cleaner or distilled water.

# DMX protocols

| 6-CH | 8-CH | 12-CH | DMX Value | Percent | Function |
|---|---|---|---|---|---|
| | 1 | 1 | 0 - 255 | 0 - 100 | Dimmer (0-100%) |
| 1 | 2 | 2 | 0 - 255 | 0 - 100 | Red(0-100%) |
| 2 | 3 | 3 | 0 - 255 | 0 - 100 | Green(0-100%) |
| 3 | 4 | 4 | 0 - 255 | 0 - 100 | Blue(0-100%) |
| 4 | 5 | 5 | 0 - 255 | 0 - 100 | White(0-100%) |
| 5 | 6 | 6 | 0 - 255 | 0 - 100 | Amber(0-100%) |
| 6 | 7 | 7 | 0 - 255 | 0 - 100 | Purple(0-100%) |
| | 8 | 8 | | | **Electronic shutter effect** |
| | | | 0 - 19 | 0 - 7 | Shutter closed |
| | | | 20 - 24 | 8 -9 | Shutter open |
| | | | 25 - 64 | 10 - 25 | Strobe 1 (fast → slow) |
| | | | 65 - 69 | 26 - 27 | Shutter open |
| | | | 70 - 84 | 28 - 33 | Strobe 2：opening pulse（fast → slow） |
| | | | 85 - 89 | 34 - 35 | Shutter open |
| | | | 90 - 104 | 36 - 41 | Strobe 3：closing pulse（fast → slow） |
| | | | 105 - 109 | 42 - 43 | Shutter open |
| | | | 110 - 124 | 44 - 49 | Strobe 4：random strobe（fast → slow） |
| | | | 125 - 129 | 50 - 51 | Shutter open |
| | | | 130 - 144 | 52 - 57 | Strobe 5：random opening pulse（fast → slow） |
| | | | 145 - 149 | 58 - 59 | Shutter open |
| | | | 150 - 164 | 60 - 65 | Strobe 6：random closing pulse（fast → slow） |
| | | | 165 - 169 | 66 - 67 | Shutter open |
| | | | 170 - 184 | 68 - 73 | Strobe 7：burst pulse（fast → slow） |
| | | | 185 - 189 | 74 - 75 | Shutter open |
| | | | 190 - 204 | 76 - 81 | Strobe 8：random burst pulse（fast → slow） |
| | | | 205 - 209 | 82 - 83 | Shutter open |
| | | | 210 - 224 | 84 - 89 | Strobe 9：sine wave（fast → slow） |
| | | | 225 - 229 | 90 - 91 | Shutter open |
| | | | 230 - 244 | 92 - 97 | Strobe 10：burst（fast → slow） |
| | | | 245 - 255 | 98 - 100 | Shutter open |
| | | 9 | 0 - 10 | 0 - 4 | No Function |
| | | | 11 - 205 | 5 - 80 | Macro color control |
| | | | 206 - 255 | 81-100 | Macro CCT control |
| | | 10 | 000-010 | 0 - 4 | No Function |
| | | | 011-060 | 5-23 | Auto 01 |
| | | | 061-120 | 24-47 | Auto 02 |
| | | | 121-180 | 48-70 | Auto 03 |
| | | | 181-240 | 71-94 | Auto 04 |
| | | | 241-255 | 95-100 | Auto (01-04) circulation |
| | | 11 | 0-255 | 0-100 | Auto speed (slow→ast) |
| | | 12 | 0-051 | 0-20 | Preset dimmer speed from display menu |
| | | | 52-101 | 21-40 | Dimmer speed mode off |
| | | | 102-152 | 41-60 | Dimmer speed mode1 (fast speed) |
| | | | 153-203 | 61-80 | Dimmer speed mode2 (middle speed) |
| | | | 204-255 | 81-100 | Dimmer speed mode3 (slow speed) |

### 3 channels：HSV

| Channel | Value | Description |
|---|---|---|
| 1 | 000~255 | Hue |
| 2 | 000~255 | Saturation |
| 3 | 000~255 | Value (Intensity) |

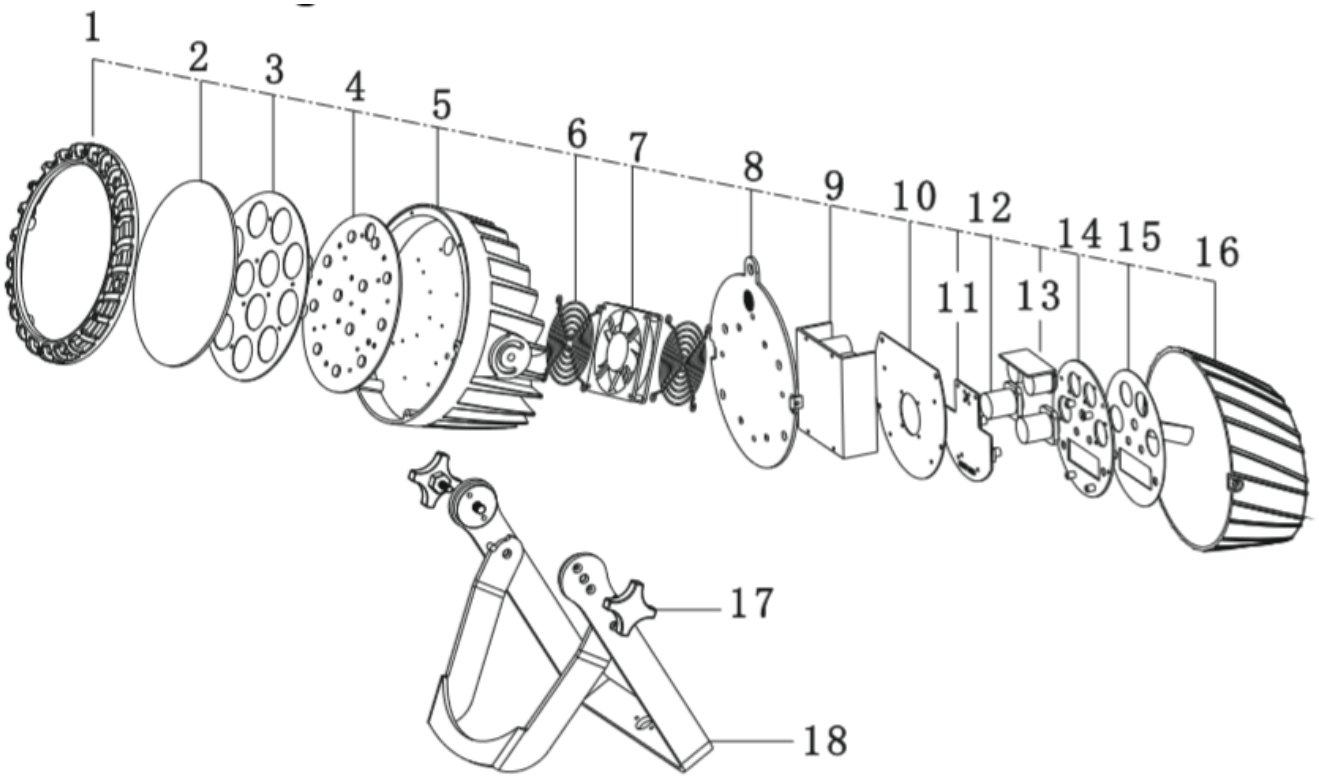
**Note:** In HSV mode, Hue stands for the visible light, such as red, yellow, and cyan, etc. Saturation refers to the dominance of hue in the color; when saturation is at 100%, then the color is at its purest. Value is the color's brightness; when value is at 100%, then the color is at its brightest.

### 3 channels：HSI

| Channel | Value | Description |
|---|---|---|
| 1 | 000~255 | Hue |
| 2 | 000~255 | Saturation |
| 3 | 000~255 | Intensity |

# Onboard control menus

| Menu | Item | | Options | Notes (**Default** settings **in bold print**) |
|---|---|---|---|---|
| **DMX ADDRESS** | | | **1-XXX** | Set DMX start address |
| **CONTROL MODE** | | | **6CH** | 6CHs:RGBWAP |
| | | | **8CH** | 8CHs:Dimmer+RGBWAP+strobe |
| | | | **12CH** | 12CHs:Dimmer+RGBWAP+strobe+Macro color+auto+auto speed + dimmer speed |
| | | | **HSV** | HSV: Hue+Saturation+Value |
| | | | **HSI** | HSI: Hue+Saturation+Intensity |
| **STATIC COLOR** | **Dimmer** | | **0~255** | 0~100% |
| | **Red** | | **0~255** | 0~100% |
| | **Green** | | **0~255** | 0~100% |
| | **Blue** | | **0~255** | 0~100% |
| | **WHITE** | | **0~255** | 0~100% |
| | **Amber** | | **0~255** | 0~100% |
| | **Purple** | | **0~255** | 0~100% |
| | **STROBE** | | **0~10** | Select strobe frequency |
| **AUTO** | **AUTO(1-10)** | | **speed(0-20)** | 10 Auto programs available |
| | **CUSTOM(1-10)** | | | Choose custom programs |
| **PERSONALITY** | **DIMMER SPEED** | | **FAST** | Fast dimming with unrestricted speed |
| | | | **SMOOTH** | Smooth dimming with restricted speed |
| | **FANS** | | **REGULATED** | Cooling fan speed thermostatically regulated |
| | | | **FULL** | Max. cooling fan speed |
| | **WDMX** | | **ON** | Turn on the Wireless |
| | | | **OFF** | Turn off the Wireless |
| | | | **RESET** | Reset the Wireless |
| | **LED BOOST MODE** | | **ON** | single leds in full power with 120% current, when color mix will drop to 100% current |
| | | | **OFF** | |
| **SCENE EDITOR** | **Custome (1~10)** | **Scene (1~30)** | **Red** | 0-255 |
| | | | **Green** | 0-255 |
| | | | **Blue** | 0-255 |
| | | | **WHITE** | 0-255 |
| | | | **Amber** | 0-255 |
| | | | **Purple** | 0-255 |
| | | | **STROBE** | (0~20Hz)Select strobe frequency |
| | | | **Fade** | step time(XXX s) |
| | | | **Time** | transition time of last step to current step(XXX s) |
| **INFO** | **VERSION** | | V1.0 | Use time reset |
| | **TEMP** | | **XXX**℃ | LEDs current temperature |
| **FACTORY SET** | | | **LOAD** | Return all settings to factory defaults |




| No. | | Description | | Part number CLF |
|---|---|---|---|---|
| | | | | |
| 1 | | CLF Front cover ring Hercules | | CLF-12-295 |
| 2 | | CLF Tempered front glass Hercules | | CLF-12-292 |
| 3 | | CLF Lens kit Hercules | | CLF-12-286 |
| 4 | | CLF LED board Hercules | | CLF-12-282 |
| 5 | | CLF Front case body Hercules | | CLF-12-279 |
| 6 | | CLF Fan cover Hercules | | CLF-06-106 |
| 7 | | CLF Fan Hercules | | CLF-12-285 |
| 8 | | CLF Fan support plate Hercules | | CLF-06-105 |
| 9 | | CLF Power supply Hercules | | CLF-12-284 |
| 10 | | CLF Power supply support plate Hercules | | CLF-06-104 |
| 11 | | CLF Display board Hercules | | CLF-12-283 |
| 12 | | CLF Powercon input socket Hercules | | CLF-03-007 |
| 13 | | CLF 3-pin DMX PCB Hercules | | CLF-12-293 |
| 14 | | CLF Display support plate Hercules | | CLF-12-289 |
| 15 | | CLF Backside sticker Hercules | | CLF-12-280 |
| 16 | | CLF Back case body Hercules | | CLF-12-278 |
| 17 | | CLF Knob bracket Hercules | | CLF-06-116 |
| 18 | | CLF Outer bracket Hercules | | CLF-12-290 |

# Specifications

**Physical**

Length . . . . . .257 mm
Width . . . . . .206 mm
Height . . . . . .303 mm
Weight . . . . . 5.5 kg without accessories

**Dynamic Effects**

color mixing . . . . . RGBWAP
color temperature control . . . . . CTO, variable 10 000 - 2500 K
LED Quantity: . . . . . 12 PCS 6 in 1 LED
shutter effects . . . . . Electronic, with regular and random pulse, burst and strobe effects
Beam Angle: . . . . . 25°

**Control and Programming**

Control . . . . . .DMX
DMX channels . . . . . 6/8/12/3/3
Setting and addressing . . . . . Control panel with backlit graphic display
Protocol . . . . . USITT DMX512-A

**Construction**

Color . . . . . Black
Housing . . . . . High strength die-casting aluminum
Protection rating. . . . . .IP 20

**Installation**

Orientation . . . . . .Any
Minimum distance to combustible materials . . . . . 100 mm. from fixture
Minimum distance to illuminated surfaces . . . . . 200 mm. from fixture
Location . . . . . .Indoor use only, must be fastened to structure or surface

**Connections**

AC power input . . . . . PowerCon input socket (blue)
AC power throughput. . . . . .PowerCon output socket (grey)
DMX data in/out . . . . . .3/5-pin locking XLR

**Electrical**

AC power . . . . . .100-240 V nominal, 50/60 Hz
Maximum total power consumption . . . . . .105 W
Power supply unit . . . . . .Auto-ranging electronic switch mode
Power consumption, all effects static, zero light output . . . . . <10 W

**Thermal**

Cooling . . . . . Forced air (temperature-regulated, low noise, user-definable levels)
Maximum ambient temperature (Ta max.). . . . . 40° C
Minimum ambient temperature (Ta min.). . . . . 5° C