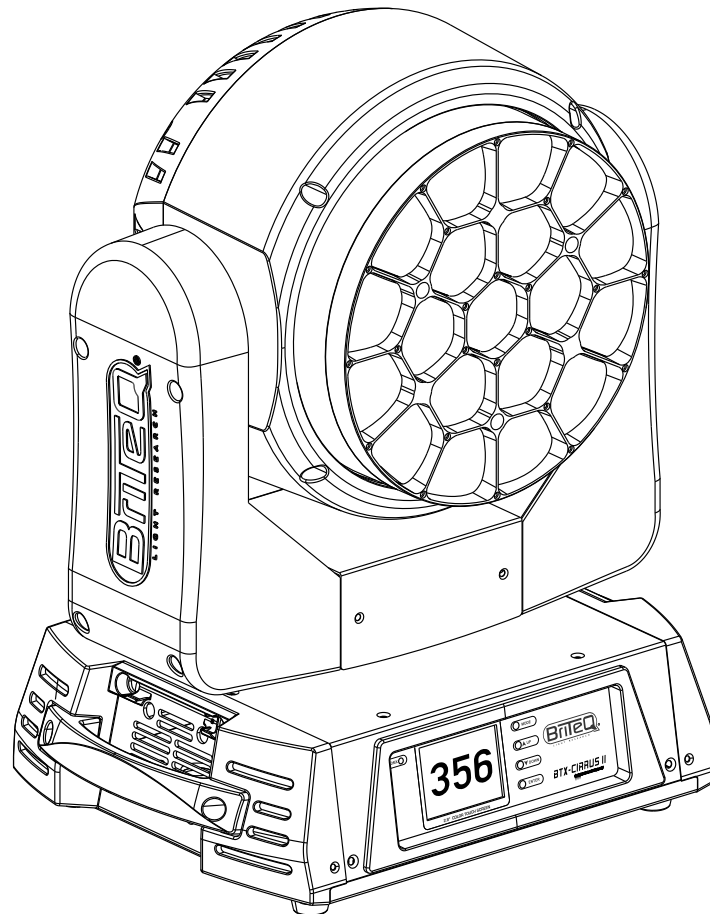


# ***BTX-CIRRUS II***



## **ENGLISH**

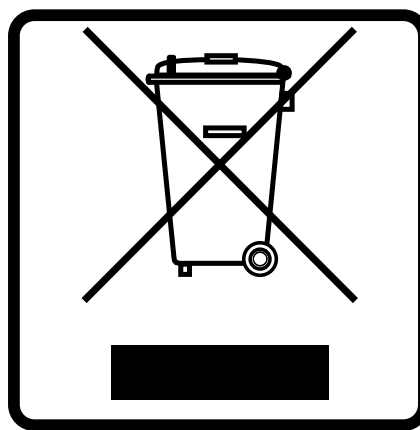
### **Operation Manual**

Other languages can be downloaded from:  
[WWW.BRITEQ-LIGHTING.COM](http://WWW.BRITEQ-LIGHTING.COM)



*Version: 1.1*





### **EN - DISPOSAL OF THE DEVICE**

Dispose of the unit and used batteries in an environment friendly manner according to your country regulations.

### **FR - DÉCLASSER L'APPAREIL**

Débarrassez-vous de l'appareil et des piles usagées de manière écologique Conformément aux dispositions légales de votre pays.

### **NL - VERWIJDEREN VAN HET APPARAAT**

Verwijder het toestel en de gebruikte batterijen op een milieuvriendelijke manier conform de in uw land geldende voorschriften.

### **DU - ENTSORGUNG DES GERÄTS**

Entsorgen Sie das Gerät und die Batterien auf umweltfreundliche Art und Weise gemäß den Vorschriften Ihres Landes.

### **ES - DESHACERSE DEL APARATO**

Reciclar el aparato y pilas usadas de forma ecologica conforme a las disposiciones legales de su país.

### **PT - COMO DESFAZER-SE DA UNIDADE**

Tente reciclar a unidade e as pilhas usadas respeitando o ambiente e em conformidade com as normas vigentes no seu país.

# OPERATION MANUAL

Thank you for buying this Briteq® product. To take full advantage of all possibilities and for your own safety, please read these operating instructions very carefully before you start using this unit.

## FEATURES

- Extremely powerful moving wash equipped with 19 Osram 30W RGBW Leds
- Linear zoom from 4° to 60°
- Exceptional light output (full on):
  - 25'500 lux @ 5m (4°)
  - 980 lux @ 5m (60°)
- Max lumen output: 20600 lm
- Full pixel mapping with 16bit dimming.
- Quiet overall operation, perfect for bigger theatres, stages, rental...
- New super silent MOONS® motors for smooth and inaudible zooming performance!
- Battery backup: settings can be made without connecting the unit to the mains
- 6 DMX modes: from 20 to 96 Channels
- The 3-Phase MOONS® stepper motors assure very fast PAN/TILT movements with 8 or 16bit precision.
- 2.8" Color touch screen with automatic display rotation for easy and intuitive menu navigation
- Easy firmware updates keep your machine up-to-date at all times (optional firmware updater, code: 4389)
- Neutrik 3pin & 5pin XLR® in/outputs for maximum flexibility in a professional environment
- Neutrik PowerCON® TRUE-1 in/outputs: up to 16A can be daisy chained for easy installation
- Equipped with omega brackets for fast installation.

## BEFORE USE

- Before you start using this unit, please check if there's no transportation damage. Should there be any, do not use the device and consult your dealer first.
- **Important:** This device left our factory in perfect condition and well packaged. It is absolutely necessary for the user to strictly follow the safety instructions and warnings in this user manual. Any damage caused by mishandling is not subject to warranty. The dealer will not accept responsibility for any resulting defects or problems caused by disregarding this user manual.
- Keep this booklet in a safe place for future consultation. If you sell the fixture, be sure to add this user manual.

### Check the contents:

Check that the carton contains the following items:

- BTX-CIRRUS II
- 2pcs Quick lock "Omega bracket"
- PowerCON® TRUE-1 cable
- Safety cable
- Operating instructions

## SAFETY INSTRUCTIONS



**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**CAUTION:** To reduce the risk of electric shock, do not remove the top cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.



The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.



This symbol means: indoor use only



This symbol means: Read instructions



This symbol determines: the minimum distance from lighted objects. The minimum distance between light-output and the illuminated surface must be more than 0.2 meters

**RISK GROUP 2**  
**CAUTION:**  
Do not stare at operating lamp

**CAUTION:** Do not stare at operating lamp.  
May be harmful to the eyes.

- To protect the environment, please try to recycle the packing material as much as possible.
- A new light effect sometimes causes some unwanted smoke and/or smell. This is normal and disappears after some minutes.
- To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- To avoid condensation to be formed inside, allow the unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condense sometimes prevents the unit from working at full performance or may even cause damages.
- This unit is for indoor use only.
- Don't place metal objects or spill liquid inside the unit. Electric shock or malfunction may result. If a foreign object enters the unit, immediately disconnect the mains power.
- Locate the fixture in a well ventilated spot, away from any flammable materials and/or liquids. The fixture must be fixed at least 20cm from surrounding walls.
- Don't cover any ventilation openings as this may result in overheating.
- Prevent use in dusty environments and clean the unit regularly.
- Keep the unit away from children.
- Inexperienced persons should not operate this device.
- Maximum safe ambient temperature is 40°C. Don't use this unit at higher ambient temperatures.
- The units' surface temperature may reach up to 85°C. Don't touch the housing with bare hands during its operation.
- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- Allow the device about 10 minutes to cool down before replacing the bulb or start servicing.
- Always unplug the unit when it is not used for a longer time or before replacing the bulb or start servicing.
- The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.
- Check that the available voltage is not higher than the one stated on the rear panel of the unit.
- The power cord should always be in perfect condition. Switch the unit immediately off when the power cord is squashed or damaged. It must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Never let the power-cord come into contact with other cables!
- This fixture must be earthed in order to comply with safety regulations.
- Don't connect the unit to any dimmer pack.
- Always use an appropriate and certified safety cable when installing the unit.
- In order to prevent electric shock, do not open the cover. Apart from the lamp and mains fuse there are no user serviceable parts inside.
- Never repair a fuse or bypass the fuse holder. Always replace a damaged fuse with a fuse of the same type and electrical specifications!
- In the event of serious operating problems, stop using the fixture and contact your dealer immediately.
- The housing and the lenses must be replaced if they are visibly damaged.
- Please use the original packing when the device is to be transported.
- Due to safety reasons it is prohibited to make unauthorized modifications to the unit.

**Important:** Never look directly into the light source! Don't use the effect in the presence of persons suffering from epilepsy.

## DESCRIPTION:

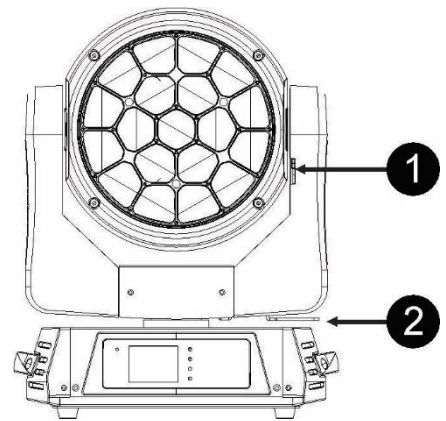
### DEVICE:

1. TILT locking handle
2. PAN locking handle

Pan and Tilt mechanism can be locked every 45°

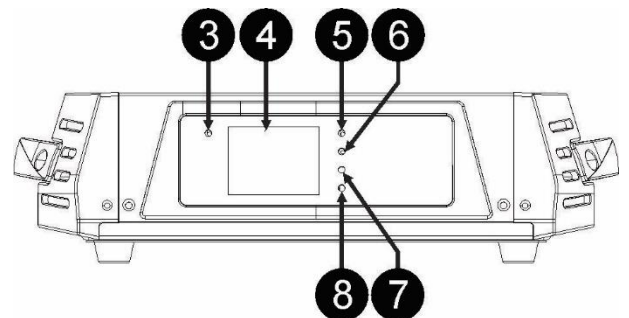
### IMPORTANT:

**The head and arm must be unlocked before operation!**



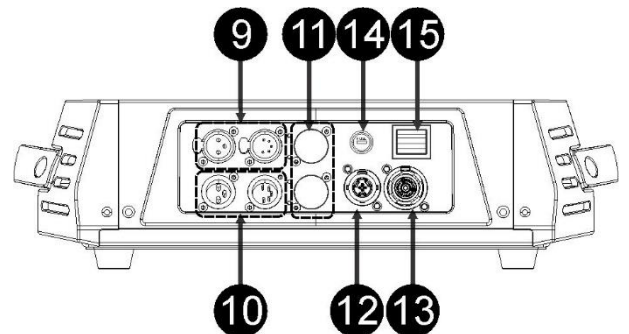
### CONTROL PANEL:

3. STATUS led
4. LCD Touchscreen display
5. MODE button
6. ▲ / UP button
7. ▼ / DOWN button
8. ENTER button



### REAR PANEL:

9. DMX XLR output (3pin + 5pin)
10. DMX XLR input (3pin + 5pin)
11. Spare holes for future optional features
12. PowerCon® TRUE1 Input
13. PowerCon® TRUE1 Output
14. Mains fuse
15. Power switch



*Hint: Please check our website for special cable assemblies that contain both power (3x1.5mm² with Neutrik PowerCON® TRUE-1) and balanced signal (XLR 3pin or 5pin) in one cable. Different lengths are available: 1.5m, 3m and 5m, very convenient!*

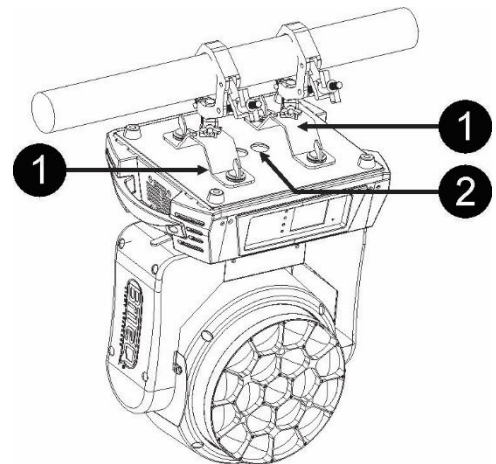
## OVERHEAD RIGGING

- **Important:** The installation must be carried out by qualified service personal only. Improper installation can result in serious injuries and/or damage to property. Overhead rigging requires extensive experience! Working load limits should be respected, certified installation materials should be used, the installed device should be inspected regularly for safety.
- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- Locate the fixture in a well ventilated spot, far away from any flammable materials and/or liquids. The fixture must be fixed **at least 50cm** from surrounding walls.
- The device should be installed out of reach of people and outside areas where persons may walk by or be seated.
- Before rigging make sure that the installation area can hold a minimum point load of 10times the device's weight.
- Always use a certified safety cable that can hold 12 times the weight of the device when installing the unit. This secondary safety attachment should be installed in a way that no part of the installation can drop more than 20cm if the main attachment fails.
- The device should be well fixed; a free-swinging mounting is dangerous and may not be considered!
- Don't cover any ventilation openings as this may result in overheating.

- The operator has to make sure that the safety-relating and machine-technical installations are approved by an expert before using them for the first time. The installations should be inspected every year by a skilled person to be sure that safety is still optimal.

**Installation:**

- Fix the Truss hooks (1) to the Omega clamps with screw and locking nut.
- Fasten the omega clamps (2) on the bottom of the base by inserting quick-lock fasteners (3) into the holes of the base and tighten fully clockwise. (you should hear or feel a 'click')



1 = Omega Clamps  
2 = Holes for Safety cable

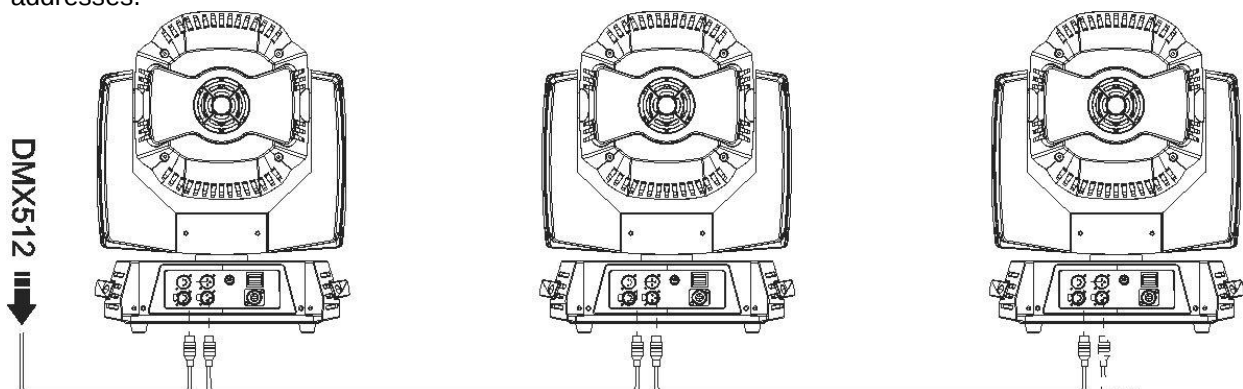
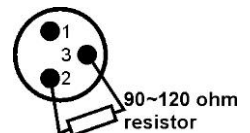
## ELECTRICAL INSTALLATION + ADDRESSING



**Important:** The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.

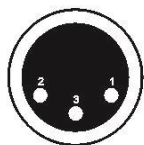
**Electrical installation for two or more units in DMX-mode:**

- The DMX-protocol is a widely used high speed signal to control intelligent light equipment. You need to "daisy chain" your DMX controller and all the connected units with a good quality balanced cable.
- Both XLR-3pin and XLR-5pin connectors are used, however XLR-3pin is more popular because these cables are compatible with balanced audio cables.  
Pin layout XLR-3pin: Pin1 = GND ~ Pin2 = Negative signal (-) ~ Pin3 = Positive signal (+)  
Pin layout XLR-5pin: Pin1 = GND ~ Pin2 = Negative signal (-) ~ Pin3 = Positive signal (+) ~ Pins4+5 not used.
- To prevent strange behavior on the DMX units, due to interferences, you must use a 90Ω to 120Ω terminator at the end of the chain. Never use Y-splitter cables, this simply won't work!
- Make sure that all units are connected to the mains.
- Each unit in the chain needs to have its proper starting address so it knows which commands from the controller it has to decode. In the next section you will learn how to set the DMX addresses.

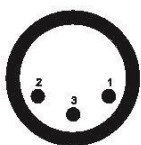


### Wiring of the DMX connectors:

DMX output  
3-pin XLR socket



DMX input  
3-pin XLR socket

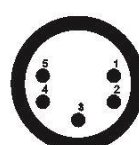


1: Ground  
2: Signal (-)  
3: Signal (+)

DMX output  
5-pin XLR socket



DMX input  
5-pin XLR socket



1: Ground  
2: Signal (-)  
3: Signal (+)  
4: N. A.  
5: N. A.

## OPERATING INSTRUCTIONS

- In the event of serious operating problems, stop using the fixture and contact your dealer immediately.
- Important:** Never look directly into the light source! Don't use the effect in the presence of persons suffering from epilepsy.

### MENU

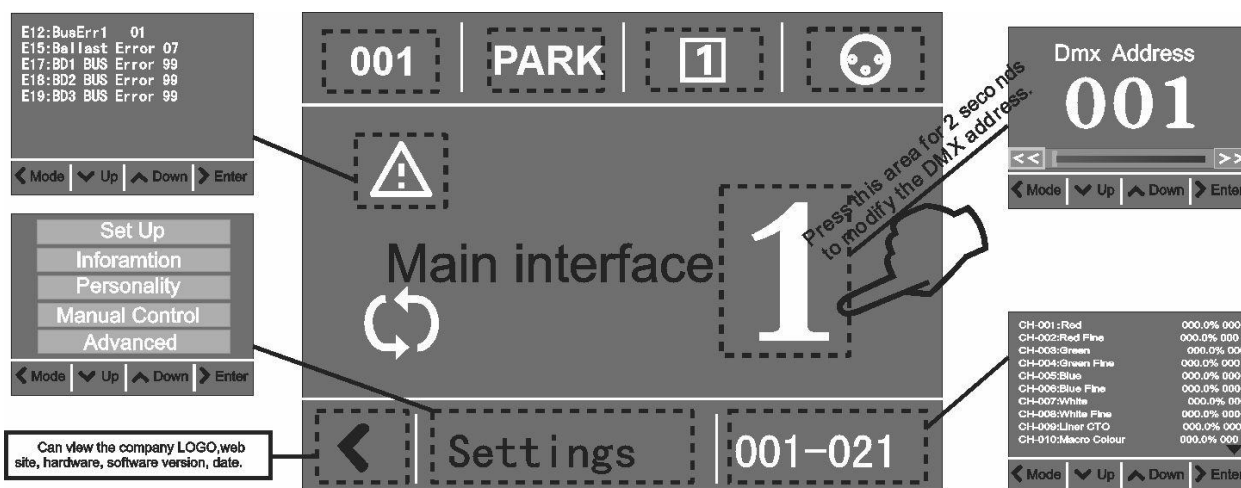
You can use the buttons or touch screen to navigate the setup menu with its different sub menus etc. You can easily change settings like DMX address, different functions etc.

- Use the [UP / DOWN] buttons to navigate the menu and change the values of the selected functions.
- Each time you select a menu item or change a setting you must press the [ENTER] button to confirm.
- Press the [MODE] button to return to the (previous) menu.

The  logo is used to check the status of the DMX connection. When the  logo is green, the dmx connection between the unit and the controller is OK.

### TOUCHSCREEN – MAIN INTERFACE LAYOUT:

When the unit is switched on, the display shows the BriteQ logo, followed by the main interface as shown below. The main interface is split up in different parts (icons). You can press these icons, which are in fact shortcuts, to immediately access different parts of the setup menu (see drawing).



### !!! IMPORTANT !!!

#### PARK FUNCTION

To avoid damage to the zooming mechanism you **MUST** press the “PARK” function on the touch display to retract the zooming mechanism. This action protects the mechanism during transport!

#### FIXTURE ID

The Fixture id (ranging from 0001 to 9999) makes installation easier because each product can be identified by a unique number. With the internal battery, no need to plug the power to set or read the fixture id. To change the fixture id a password is needed: the password is “1702”.

## CHANNEL MODE

Set the channel mode of BriteQ BTX-CIRRUS:

- **Standard:** 20 Channels
- **Shapes:** 29 Channels
- **Extended:** 77 Channels
- **Extended RGBW:** 96 Channels
- **Full :** 86 Channels
- **Extended Dimmer:** 48 Channels

## DMX INPUT

 **is green:** received DMX-signal is OK.

 **is red and lcd is blinking:** received DMX-signal is NOT OK or NO DMX-signal received.

Used to set the desired input for the DMX signal:

- **Wired Input:** XLR (3 or 5pin) input is used.

## DMX ADDRESS

Set the DMX address by pressing the center of the screen at least 2 seconds (yellow progress bar appears on the screen) and DMX Address panel appears. DMX address can be modified with the slider on the touch screen or with the “+” and “-” button. The “>>” icon sets the last valid DMX address, according to the selected channel mode. The “<<” sets the address to 1. Confirm the DMX address by pressing ENTER. The main page is now updated, and the DMX range used by the product is on the right down corner of the screen.

## CHANNEL LIST

Pressing on the DMX address range xxx-xxx on the main screen shows the DMX-chart according to the selected channel mode.

## ERROR MESSAGES

Press the -ICON: a list of error messages will appear. Please check the list of error codes at the end of the user manual.

| CODE | ERRO INFO       | TO CHECK                                                                                                  |
|------|-----------------|-----------------------------------------------------------------------------------------------------------|
| E02  | Program Err 1   | Check the welding of the chip                                                                             |
| E04  | MBDInit Error   | Check the communication signal 485 & 485 chip & memory                                                    |
| E05  | BD1Init Error   | Check main cable ABAB 485 chip                                                                            |
| E06  | BD2Init Error   |                                                                                                           |
| E12  | BUS1 Error      | Check main cable ABAB 485 chip                                                                            |
| E16  | MFpga Error     | Check the communication signal & welding of the communication chip                                        |
| E17  | BD1 BUS Error   |                                                                                                           |
| E18  | BD2 BUS Error   |                                                                                                           |
| E21  | Pan FB. Err     | Check the light coupling line, optical coupling switch and the plate of the relative position measurement |
| E23  | Tilt FB. Err    |                                                                                                           |
| E22  | Pan Zero Error  | Check cable of the sensor, distance and location of the magnets and sensor                                |
| E24  | Tilt Zero Error |                                                                                                           |
| E36  | Zoom RT.        |                                                                                                           |
| E46  | N.Fan Error     | Check the fan in the head                                                                                 |

**SETTING MENU**

Press [Settings] on the display to open the setup menu. Use the [UP/DOWN], [MODE] and [ENTER] buttons to navigate.

| LEVEL 1          | LEVEL 2           | LEVEL 3                                                                                                                          | REMARKS                                          |
|------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Set up           | DMX Address       | Universe                                                                                                                         |                                                  |
|                  |                   | DMX Address 001~XXX                                                                                                              |                                                  |
|                  | Channel Mode      | STANDARD 1~20                                                                                                                    | default Mode1                                    |
|                  |                   | SHAPES 1~29                                                                                                                      |                                                  |
|                  |                   | EXTENDED 1~77                                                                                                                    |                                                  |
|                  |                   | EXTENDED RGBW 1~96                                                                                                               |                                                  |
|                  |                   | FULL 1~86                                                                                                                        |                                                  |
|                  |                   | EXTENDED DIMMER 1~48                                                                                                             |                                                  |
|                  | Blackout Mode     | Freeze (default)                                                                                                                 | keeps last valid DMX value before signal failure |
|                  |                   | Blackout                                                                                                                         | all channels return to 000 when no DMX signal    |
| Information      | Fixture Id        | 0001~XXXX                                                                                                                        | Lamp address                                     |
|                  | Fixture Times     | XXXXX h XX m                                                                                                                     | Total working hours                              |
|                  | LED Timeshare     | LED On Times XXXXh XXm                                                                                                           | Lamp Strike                                      |
|                  |                   | Reset LED Time                                                                                                                   | Reset Lamp Time                                  |
|                  | Error List        |                                                                                                                                  | Error details                                    |
|                  | Diagnosis         | BOARD 1: XX.XX%                                                                                                                  | Diagnosis                                        |
|                  |                   | BOARD 2: XX.XX%                                                                                                                  |                                                  |
|                  | DMX Values        |                                                                                                                                  | DMX Values                                       |
| Personality      | Pan/Tilt          | Pan Reverse ON/OFF                                                                                                               | Pan Reverse (default OFF)                        |
|                  |                   | Tilt Reverse ON/OFF                                                                                                              | Tilt Reverse (default OFF)                       |
|                  |                   | Feedback ON/OFF                                                                                                                  | Pan/Tilt Auto Switch (default ON)                |
|                  |                   | Blackout P/T Moving ON/OFF                                                                                                       | Move in black (default OFF)                      |
|                  | Dimmer            | Dimmer Curve                                                                                                                     | Linear, Square, Inv. Square or S-Curve           |
|                  |                   | Dimmer Speed                                                                                                                     | Choice between Fast and Smooth                   |
|                  | Dmx Input         | Wired Input                                                                                                                      | Wired Input (default)                            |
|                  |                   | Wireless Input                                                                                                                   | Wireless Input                                   |
|                  |                   | Wireless In/XLR out                                                                                                              | Wireless In/XLR out                              |
|                  | Screen            | Brightness                                                                                                                       | Brightness                                       |
|                  |                   | Screen Time out 0-10m                                                                                                            | Screen Time out                                  |
|                  |                   | Touch Screen ON/OFF                                                                                                              | Touch Screen (default ON)                        |
|                  |                   | Auto Screen ON/OFF                                                                                                               | Auto Screen (default ON)                         |
|                  | Fan Mode          | Auto                                                                                                                             |                                                  |
|                  |                   | High                                                                                                                             |                                                  |
|                  |                   | Silence mode                                                                                                                     | Slower fan speed, light output limited to 80 %   |
| Manual Control   | Reset             | Reset ALL                                                                                                                        |                                                  |
|                  |                   | Reset Pan/Tilt                                                                                                                   |                                                  |
|                  |                   | Reset Other                                                                                                                      |                                                  |
|                  | Channel           | All channels can be tested individually                                                                                          |                                                  |
|                  | Test              | Automatic test of RGBW, dimmer, strobe, pan/tilt, zoom. The values of the automatic test are also transmitted to the DMX output. |                                                  |
| Advanced Control | Calibration       |                                                                                                                                  | Channel Adjusting                                |
|                  | Factory Default   |                                                                                                                                  | Reset to original parameters                     |
|                  | Touch Calibration |                                                                                                                                  | Touch screen adjust                              |

**SET UP > DMX ADDRESS**

Set the DMX address by pressing the center of the screen at least 2 seconds (yellow progress bar appears on the screen) and DMX Address panel appears. DMX address can be modified with the slider on the touch screen or with the "+" and "-" button. The ">>" icon set the last DMX address possible according to the selected channel mode. The "<<" set the address to 1. Set the DMX address by pressing enter. The main page is now updated, and the DMX range used by the product is on the right down corner of the screen.

**SET UP > CHANNEL MODE**

Set the channel mode of BriteQ BTX-CIRRUS:

- **1. Standard:** 20 Channels
- **2. Shapes:** 29 Channels
- **3. Extended:** 77 Channels
- **4. Extended RGBW:** 96 Channels
- **5. Full :** 86 Channels
- **6. Extended Dimmer:** 48 Channels

**SET UP > FIXTURE ID**

The Fixture id (ranging from 0001 to 9999) makes installation easier because each product can be identified by a unique number. With the internal battery, no need to plug the power to set or read the fixture id. To change the fixture id a password is needed: the password is "1702".

**INFORMATION > FIXTURE TIMES**

Shows the operation time (in hours) since it first start.

**INFORMATION > LED TIMES**

**Led on times:** Show the total hours with led on since it first start  
**Reset LED time:** Reset the total hours with led on.  
Should be done after changing the led.

**INFORMATION > ERROR LIST**

If an error is detected, a list of error(s) will appear here. By default, without any error: "no error".

**INFORMATION > DIAGNOSIS**

Show the state of each cards. If one of the electronic card is not at 100%, contact the technical support.

**INFORMATION > DMX VALUE**

Shows the DMX value received by the Briteq BTX-CIRRUS on the DMX input. It can be used as a DMX analyzer to check the values received.

**INFORMATION > FAN MONITOR**

Shows the rotation speed of the fans. Speed in rotations per minute.

**PERSONALITY > PAN TILT****Pan reverse (on-off)**

- **On:** Pan works in opposite direction
- **Off:** Pan works normally

**Tilt reverse (on-off)**

- **On:** Tilt works in opposite direction
- **Off:** Tilt works normally

**Feedback (on-off)**

- **On:** pan/tilt position is automatically corrected.
- **Off:** pan/tilt position is not corrected.

**PERSONALITY > DMX INPUT**

Used to set the desired input for the DMX signal:

- **Wired Input:** XLR (3 or 5pin) input is used.
- **Wireless Input:** DMX-signal comes from an external wireless transmitter (sold separately)
- **Wireless Input / XLR out:** DMX-signal comes from an external wireless transmitter (sold separately).  
The wireless DMX-signal is also available at the DMX output port (3 or 5 pins) for further daisy chaining of other equipment.

**Important Remark:** originally this projector is NOT equipped with a wireless receiver module. A wireless receiver module is optionally available.

**PERSONALITY > SCREEN****Brightness**

Set the brightness of the screen

**Screen time**

Set a delay from 0 to 10 minutes to automatically exit the menu interface and switch the screen off.

**Touch screen (on-off)**

- **On:** The touchscreen is active
- **Off:** The touchscreen is not active, menu navigation is only possible using the buttons.

**Auto screen (on-off)**

- **On:** the screen is automatically rotated, based on the angle of the BriteQ BTX-CIRRUS.
- **Off:** the screen orientation is fixed

**PERSONALITY > FAN MODE**

- **Auto:** the speed of the fan is controlled by the temperature
- **High:** the fan is continuously on at high speed (for use in very warm environments)

**MANUAL CONTROL > RESET**

**Reset All:** Reset all functions of the BriteQ BTX-CIRRUS

**Reset pan/tilt:** Reset pan and tilt

**Reset other:** Reset all other functions

**MANUAL CONTROL > CHANNEL**

Change the value for each channel manually. This is an easy way to quickly test the machine without any DMX console.

**ADVANCED > CALIBRATION**

Calibration of the 14 integrated motors. Values can be set from 001 to 255.

Calibration password is "0088".

**ADVANCED > FACTORY DEFAULT**

Return to the factory default settings.

**ADVANCED > TOUCH CALIBRATION**

Recalibrate the touchscreen by pressing the red cross on the screen.

## DMX CHANNELS

The unit is equipped with 5 different DMX modes:

- **Standard:** 20 Channels
- **Shapes:** 29 Channels
- **Extended:** 77 Channels
- **Extended RGBW:** 96 Channels
- **Full :** 86 Channels
- **Extended Dimmer:** 48 Channels

| MODE 1 | MODE 2 | MODE 3 | MODE 4 | MODE 5 | MODE 6 | DMX VALUE                                                         | FUNCTION                                |
|--------|--------|--------|--------|--------|--------|-------------------------------------------------------------------|-----------------------------------------|
| 1      | 1      | 1      | 1      | 1      | 1      | 000-255                                                           | Red 0-100%                              |
| 2      | 2      | 2      | 2      | 2      | 2      | 000-255                                                           | Red fine                                |
| 3      | 3      | 3      | 3      | 3      | 3      | 000-255                                                           | Green 0-100%                            |
| 4      | 4      | 4      | 4      | 4      | 4      | 000-255                                                           | Green fine                              |
| 5      | 5      | 5      | 5      | 5      | 5      | 000-255                                                           | Blue 0-100%                             |
| 6      | 6      | 6      | 6      | 6      | 6      | 000-255                                                           | Blue fine                               |
| 7      | 7      | 7      | 7      | 7      | 7      | 000-255                                                           | White 0-100%                            |
| 8      | 8      | 8      | 8      | 8      | 8      | 000-255                                                           | White fine                              |
| 9      | 9      | 9      | 9      | 9      | 9      | <b>LINEAR CTO</b> (WHITE channel is disabled while CTO is active) |                                         |
|        |        |        |        |        |        | 000-009                                                           | UNUSED RANGE                            |
|        |        |        |        |        |        | 010                                                               | 8000K                                   |
|        |        |        |        |        |        | 010-054                                                           | 8000K→7000K                             |
|        |        |        |        |        |        | 054-099                                                           | 7000K→6000K                             |
|        |        |        |        |        |        | 099-117                                                           | 6000K→5600K                             |
|        |        |        |        |        |        | 117-144                                                           | 5600K→5000K                             |
|        |        |        |        |        |        | 144-188                                                           | 5000K→4000K                             |
|        |        |        |        |        |        | 188-224                                                           | 4000K→3200K                             |
| 10     | 10     | 10     | 10     | 10     | 10     | <b>COLOR MACROS</b>                                               |                                         |
|        |        |        |        |        |        | 000-009                                                           | CMY color mixing using channels 8 to 10 |
|        |        |        |        |        |        | 010-014                                                           | LEE 790 - Moroccan pink                 |
|        |        |        |        |        |        | 015-019                                                           | LEE 157 - Pink                          |
|        |        |        |        |        |        | 020-024                                                           | LEE 332 - Special rose pink             |
|        |        |        |        |        |        | 025-029                                                           | LEE 328 - Follies pink                  |
|        |        |        |        |        |        | 030-034                                                           | LEE 345 - Fuchsia pink                  |
|        |        |        |        |        |        | 035-039                                                           | LEE 194 - Surprise pink                 |
|        |        |        |        |        |        | 040-044                                                           | LEE 181 - Congo Blue                    |
|        |        |        |        |        |        | 045-049                                                           | LEE 071 - Tokyo Blue                    |
|        |        |        |        |        |        | 050-054                                                           | LEE 120 - Deep Blue                     |
|        |        |        |        |        |        | 055-059                                                           | LEE 079 - Just Blue                     |
|        |        |        |        |        |        | 060-064                                                           | LEE 132 - Medium Blue                   |
|        |        |        |        |        |        | 065-069                                                           | LEE 200 - Double CT Blue                |
|        |        |        |        |        |        | 070-074                                                           | LEE 161 - Slate Blue                    |
|        |        |        |        |        |        | 075-079                                                           | LEE 201 - Full CT Blue                  |
|        |        |        |        |        |        | 080-084                                                           | LEE 202 - Half CT Blue                  |
|        |        |        |        |        |        | 085-089                                                           | LEE 117 - Steel Blue                    |
|        |        |        |        |        |        | 090-094                                                           | LEE 353 - Lighter Blue                  |
|        |        |        |        |        |        | 095-099                                                           | LEE 118 - Light Blue                    |
|        |        |        |        |        |        | 100-104                                                           | LEE 116 - Medium Blue Green             |
|        |        |        |        |        |        | 105-109                                                           | LEE 124 - Dark Green                    |
|        |        |        |        |        |        | 110-114                                                           | LEE 139 - Primary Green                 |
|        |        |        |        |        |        | 115-119                                                           | LEE 089 - Moss Green                    |
|        |        |        |        |        |        | 120-124                                                           | LEE 122 - Fern Green                    |
|        |        |        |        |        |        | 125-129                                                           | LEE 738 - JAS Green                     |
|        |        |        |        |        |        | 130-134                                                           | LEE 088 - Lime Green                    |
|        |        |        |        |        |        | 135-139                                                           | LEE 100 - Spring Yellow                 |
|        |        |        |        |        |        | 140-144                                                           | LEE 104 - Deep Amber                    |

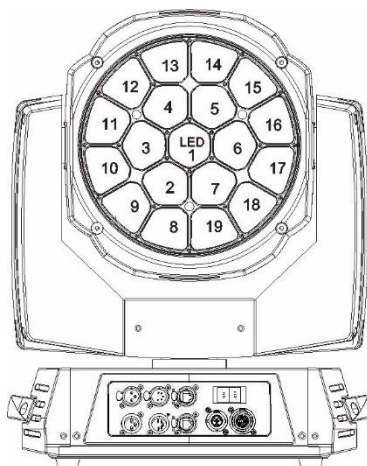
|    |    |    |    |    |    |                                                      |                                                         |
|----|----|----|----|----|----|------------------------------------------------------|---------------------------------------------------------|
|    |    |    |    |    |    | 145-149                                              | LEE 179 - Chrome Orange                                 |
|    |    |    |    |    |    | 150-154                                              | LEE 105 - Orange                                        |
|    |    |    |    |    |    | 155-159                                              | LEE 021 - Gold Amber                                    |
|    |    |    |    |    |    | 160-164                                              | LEE 778 - Millennium Gold                               |
|    |    |    |    |    |    | 165-169                                              | LEE 135 - Deep Golden Amber                             |
|    |    |    |    |    |    | 170-174                                              | LEE 164 - Flame Red                                     |
|    |    |    |    |    |    | 175-179                                              | Open                                                    |
|    |    |    |    |    |    | 180-201                                              | Clockwise color macro rotation (fast → slow)            |
|    |    |    |    |    |    | 202-207                                              | Stop (this will stop wherever the color is at the time) |
|    |    |    |    |    |    | 208-229                                              | Counter-clockwise color macro rotation (slow → fast)    |
|    |    |    |    |    |    | 230-234                                              | Open                                                    |
|    |    |    |    |    |    | 235-249                                              | Random color macro (fast → slow)                        |
|    |    |    |    |    |    | 250-255                                              | Open                                                    |
| 11 | 11 | 11 | 11 | 11 | 11 | <b>STROBE CHANNEL</b>                                |                                                         |
|    |    |    |    |    |    | 000-031                                              | CLOSED                                                  |
|    |    |    |    |    |    | 032-063                                              | OPEN                                                    |
|    |    |    |    |    |    | 064-095                                              | STROBE SLOW→FAST (1→25 flash/sec)                       |
|    |    |    |    |    |    | 096-127                                              | OPEN                                                    |
|    |    |    |    |    |    | 128-143                                              | Opening pulse in sequence from slow to fast             |
|    |    |    |    |    |    | 144-159                                              | Closing pulse in sequence from fast to slow             |
|    |    |    |    |    |    | 160-191                                              | OPEN                                                    |
|    |    |    |    |    |    | 192-223                                              | Random strobe from slow to fast                         |
|    |    |    |    |    |    | 224-255                                              | OPEN                                                    |
| 12 | 12 | 12 | 12 | 12 | 12 | 000-255                                              | Dimmer 0-100%                                           |
| 13 | 13 | 13 | 13 | 13 | 13 | 000-255                                              | Dimmer Fine                                             |
| 14 | 14 | 14 | 14 | 14 | 14 | 000-255                                              | Pan                                                     |
| 15 | 15 | 15 | 15 | 15 | 15 | 000-255                                              | Pan Fine                                                |
| 16 | 16 | 16 | 16 | 16 | 16 | 000-255                                              | Tilt                                                    |
| 17 | 17 | 17 | 17 | 17 | 17 | 000-255                                              | Tilt Fine                                               |
| 18 | 18 | 18 | 18 | 18 | 18 | 000-255                                              | Pan/tilt speed (fast to slow)                           |
| 19 | 19 | 19 | 19 | 19 | 19 | <b>SPECIAL FUNCTIONS</b>                             |                                                         |
|    |    |    |    |    |    | <b>NOTE: Functions are activated after 5 seconds</b> |                                                         |
|    |    |    |    |    |    | 000-009                                              | Function off – rearmed                                  |
|    |    |    |    |    |    | 010-019                                              | Blackout when pan/tilt moving                           |
|    |    |    |    |    |    | 020-029                                              | Disabled blackout when pan/tilt moving                  |
|    |    |    |    |    |    | 030-039                                              | Linear Dimmer Curve                                     |
|    |    |    |    |    |    | 040-049                                              | Inv. Square Dimmer Curve                                |
|    |    |    |    |    |    | 050-059                                              | Square Dimmer Curve                                     |
|    |    |    |    |    |    | 060-069                                              | S-Dimmer Curve                                          |
|    |    |    |    |    |    | 070-079                                              | Fast Dimmer Speed (halogen lamp simulation off)         |
|    |    |    |    |    |    | 080-089                                              | Smooth Dimmer Speed (halogen lamp simulation on)        |
|    |    |    |    |    |    | 090-099                                              | Enable silence mode                                     |
|    |    |    |    |    |    | 100-109                                              | Disable silence mode                                    |
|    |    |    |    |    |    | 110-219                                              | Reserved                                                |
|    |    |    |    |    |    | 220-229                                              | Zoom reset                                              |
|    |    |    |    |    |    | 230-239                                              | Pan/Tilt reset                                          |
|    |    |    |    |    |    | 240-255                                              | Complete reset                                          |
| 20 | 20 | 20 | 20 | 20 | 20 | 000-255                                              | ZOOM Narrow → Wide                                      |
|    |    |    |    |    |    | <b>SHAPE SELECTION</b>                               |                                                         |
|    |    |    |    |    |    | 000-007                                              | UNUSED RANGE                                            |
|    |    |    |    |    |    | 008                                                  | Dot (static)                                            |
|    |    |    |    |    |    | 009                                                  | Ring 1 (static)                                         |
|    |    |    |    |    |    | 010                                                  | Ring 2 (static)                                         |
|    |    |    |    |    |    | 011                                                  | Dot + ring 1 (static)                                   |
|    |    |    |    |    |    | 012                                                  | Dot + ring 2 (static)                                   |
|    |    |    |    |    |    | 013                                                  | Ring 1 + ring 2 (static)                                |
|    |    |    |    |    |    | 014                                                  | Dot + ring 1 + ring 2 (static)                          |
|    |    |    |    |    |    | 015                                                  | Shape 6                                                 |
|    |    |    |    |    |    | 016                                                  | Shape 7                                                 |

|  |    |  |  |    |    |             |                    |
|--|----|--|--|----|----|-------------|--------------------|
|  |    |  |  |    |    | 017         | Shape 8            |
|  |    |  |  |    |    | 018         | Shape 9            |
|  |    |  |  |    |    | 019         | Shape 10           |
|  |    |  |  |    |    | 020         | Shape 11           |
|  |    |  |  |    |    | 021         | Shape 12           |
|  |    |  |  |    |    | 022         | Shape 13           |
|  |    |  |  |    |    | 023         | Shape 14           |
|  |    |  |  |    |    | 024         | Shape 15           |
|  |    |  |  |    |    | 025         | Shape 16           |
|  |    |  |  |    |    | 026         | Shape 17           |
|  |    |  |  |    |    | 027         | Shape 18           |
|  |    |  |  |    |    | 028         | Shape 19           |
|  |    |  |  |    |    | 029         | Shape 20           |
|  |    |  |  |    |    | 030         | Shape 21           |
|  |    |  |  |    |    | 031         | Shape 22           |
|  |    |  |  |    |    | 032         | Shape 23           |
|  |    |  |  |    |    | 033         | UNUSED RANGE       |
|  |    |  |  |    |    | 034         | UNUSED RANGE       |
|  |    |  |  |    |    | 035         | Shape 24           |
|  |    |  |  |    |    | 036         | Shape 25           |
|  |    |  |  |    |    | 037         | Shape 26           |
|  |    |  |  |    |    | 038         | Shape 27           |
|  |    |  |  |    |    | 039         | Shape 28           |
|  |    |  |  |    |    | 040         | Shape 29           |
|  |    |  |  |    |    | 041         | UNUSED RANGE       |
|  |    |  |  |    |    | 042         | Shape 30           |
|  |    |  |  |    |    | 043         | UNUSED RANGE       |
|  |    |  |  |    |    | 044         | Shape 31           |
|  |    |  |  |    |    | 045         | Shape 32           |
|  |    |  |  |    |    | 046         | Shape 33           |
|  |    |  |  |    |    | 047         | Shape 34           |
|  |    |  |  |    |    | 048         | Shape 35           |
|  |    |  |  |    |    | 049         | Shape 36           |
|  |    |  |  |    |    | 050         | Shape 37           |
|  |    |  |  |    |    | 051         | Shape 38           |
|  |    |  |  |    |    | 052         | Shape 39           |
|  |    |  |  |    |    | 053         | Shape 40           |
|  |    |  |  |    |    | 054         | Shape 41           |
|  |    |  |  |    |    | 055         | Shape 42           |
|  |    |  |  |    |    | 056         | Shape 43           |
|  |    |  |  |    |    | 057         | Shape 44           |
|  |    |  |  |    |    | 058         | Shape 45           |
|  |    |  |  |    |    | 059         | Shape 46           |
|  |    |  |  |    |    | 060         | Shape 47           |
|  |    |  |  |    |    | 061         | Shape 48           |
|  |    |  |  |    |    | 062         | Shape 49           |
|  |    |  |  |    |    | 063         | Shape 50           |
|  |    |  |  |    |    | 064         | UNUSED RANGE       |
|  |    |  |  |    |    | 065         | Shape 51           |
|  |    |  |  |    |    | 066         | Shape 52           |
|  |    |  |  |    |    | 067         | Shape 53           |
|  |    |  |  |    |    | 068         | Shape 54           |
|  |    |  |  |    |    | 069         | UNUSED RANGE       |
|  |    |  |  |    |    | 070         | Shape 55           |
|  |    |  |  |    |    | 071-255     | UNUSED RANGE       |
|  |    |  |  |    |    | SHAPE SPEED |                    |
|  | 22 |  |  | 22 | 22 | 000-063     | Radius size,Static |
|  |    |  |  |    |    | 064-158     | max to min speed   |
|  |    |  |  |    |    | 159-160     | Stop               |

|  |    |    |    |    |    |         |                       |
|--|----|----|----|----|----|---------|-----------------------|
|  |    |    |    |    |    | 161-255 | min to max speed      |
|  | 23 |    |    | 23 | 23 | 000-255 | Shape Fade 0-100%     |
|  | 24 |    |    | 24 | 24 | 000-255 | Shape R               |
|  | 25 |    |    | 25 | 25 | 000-255 | Shape G               |
|  | 26 |    |    | 26 | 26 | 000-255 | Shape B               |
|  | 27 |    |    | 27 | 27 | 000-255 | Shape W               |
|  | 28 |    |    | 28 | 28 | 000-255 | Shape Dimmer 0-100%   |
|  | 29 |    |    | 29 | 29 | 000-255 | Shape Offset          |
|  |    | 21 | 21 | 30 |    | 000-255 | LED1 - Red 0-100%     |
|  |    | 22 | 22 | 31 |    | 000-255 | LED1 - Green 0-100%   |
|  |    | 23 | 23 | 32 |    | 000-255 | LED1 - Blue 0-100%    |
|  |    |    | 24 |    |    | 000-255 | LED1 - White 0-100%   |
|  |    |    |    |    | 30 | 000-255 | LED1 - Dimmer 0-100%  |
|  |    | 24 | 25 | 33 |    | 000-255 | LED2 - Red 0-100%     |
|  |    | 25 | 26 | 34 |    | 000-255 | LED2 - Green 0-100%   |
|  |    | 26 | 27 | 35 |    | 000-255 | LED2 - Blue 0-100%    |
|  |    |    | 28 |    |    | 000-255 | LED2 - White 0-100%   |
|  |    |    |    |    | 31 | 000-255 | LED2 - Dimmer 0-100%  |
|  |    | 27 | 29 | 36 |    | 000-255 | LED3 - Red 0-100%     |
|  |    | 28 | 30 | 37 |    | 000-255 | LED3 - Green 0-100%   |
|  |    | 29 | 31 | 38 |    | 000-255 | LED3 - Blue 0-100%    |
|  |    |    | 32 |    |    | 000-255 | LED3 - White 0-100%   |
|  |    |    |    |    | 32 | 000-255 | LED3 - Dimmer 0-100%  |
|  |    | 30 | 33 | 39 |    | 000-255 | LED4 - Red 0-100%     |
|  |    | 31 | 34 | 40 |    | 000-255 | LED4 - Green 0-100%   |
|  |    | 32 | 35 | 41 |    | 000-255 | LED4 - Blue 0-100%    |
|  |    |    | 36 |    |    | 000-255 | LED4 - White 0-100%   |
|  |    |    |    |    | 33 | 000-255 | LED4 - Dimmer 0-100%  |
|  |    | 33 | 37 | 42 |    | 000-255 | LED5 - Red 0-100%     |
|  |    | 34 | 38 | 43 |    | 000-255 | LED5 - Green 0-100%   |
|  |    | 35 | 39 | 44 |    | 000-255 | LED5 - Blue 0-100%    |
|  |    |    | 40 |    |    | 000-255 | LED5 - White 0-100%   |
|  |    |    |    |    | 34 | 000-255 | LED5 - Dimmer 0-100%  |
|  |    | 36 | 41 | 45 |    | 000-255 | LED6 - Red 0-100%     |
|  |    | 37 | 42 | 46 |    | 000-255 | LED6 - Green 0-100%   |
|  |    | 38 | 43 | 47 |    | 000-255 | LED6 - Blue 0-100%    |
|  |    |    | 44 |    |    | 000-255 | LED6 - White 0-100%   |
|  |    |    |    |    | 35 | 000-255 | LED6 - Dimmer 0-100%  |
|  |    | 39 | 45 | 48 |    | 000-255 | LED7 - Red 0-100%     |
|  |    | 40 | 46 | 49 |    | 000-255 | LED7 - Green 0-100%   |
|  |    | 41 | 47 | 50 |    | 000-255 | LED7 - Blue 0-100%    |
|  |    |    | 48 |    |    | 000-255 | LED7 - White 0-100%   |
|  |    |    |    |    | 36 | 000-255 | LED7 - Dimmer 0-100%  |
|  |    | 42 | 49 | 51 |    | 000-255 | LED8 - Red 0-100%     |
|  |    | 43 | 50 | 52 |    | 000-255 | LED8 - Green 0-100%   |
|  |    | 44 | 51 | 53 |    | 000-255 | LED8 - Blue 0-100%    |
|  |    |    | 52 |    |    | 000-255 | LED8 - White 0-100%   |
|  |    |    |    |    | 37 | 000-255 | LED8 - Dimmer 0-100%  |
|  |    | 45 | 53 | 54 |    | 000-255 | LED9 - Red 0-100%     |
|  |    | 46 | 54 | 55 |    | 000-255 | LED9 - Green 0-100%   |
|  |    | 47 | 55 | 56 |    | 000-255 | LED9 - Blue 0-100%    |
|  |    |    | 56 |    |    | 000-255 | LED9 - White 0-100%   |
|  |    |    |    |    | 38 | 000-255 | LED9 - Dimmer 0-100%  |
|  |    | 48 | 57 | 57 |    | 000-255 | LED10 - Red 0-100%    |
|  |    | 49 | 58 | 58 |    | 000-255 | LED10 - Green 0-100%  |
|  |    | 50 | 59 | 59 |    | 000-255 | LED10 - Blue 0-100%   |
|  |    |    | 60 |    |    | 000-255 | LED10 - White 0-100%  |
|  |    |    |    |    | 39 | 000-255 | LED10 - Dimmer 0-100% |
|  |    | 51 | 61 | 60 |    | 000-255 | LED11 - Red 0-100%    |

|  |    |    |    |    |         |                       |
|--|----|----|----|----|---------|-----------------------|
|  | 52 | 62 | 61 |    | 000-255 | LED11 - Green 0-100%  |
|  | 53 | 63 | 62 |    | 000-255 | LED11 - Blue 0-100%   |
|  |    | 64 |    |    | 000-255 | LED11 - White 0-100%  |
|  |    |    |    | 40 | 000-255 | LED11- Dimmer 0-100%  |
|  | 54 | 65 | 63 |    | 000-255 | LED12 - Red 0-100%    |
|  | 55 | 66 | 64 |    | 000-255 | LED12 - Green 0-100%  |
|  | 56 | 67 | 65 |    | 000-255 | LED12 - Blue 0-100%   |
|  |    | 68 |    |    | 000-255 | LED12 - White 0-100%  |
|  |    |    |    | 41 | 000-255 | LED12 - Dimmer 0-100% |
|  | 57 | 69 | 66 |    | 000-255 | LED13 - Red 0-100%    |
|  | 58 | 70 | 67 |    | 000-255 | LED13 - Green 0-100%  |
|  | 59 | 71 | 68 |    | 000-255 | LED13 - Blue 0-100%   |
|  |    | 72 |    |    | 000-255 | LED13 - White 0-100%  |
|  |    |    |    | 42 | 000-255 | LED13 - Dimmer 0-100% |
|  | 60 | 73 | 69 |    | 000-255 | LED14 - Red 0-100%    |
|  | 61 | 74 | 70 |    | 000-255 | LED11 - Green 0-100%  |
|  | 62 | 75 | 71 |    | 000-255 | LED14 - Blue 0-100%   |
|  |    | 76 |    |    | 000-255 | LED14 - White 0-100%  |
|  |    |    |    | 43 | 000-255 | LED14 - Dimmer 0-100% |
|  | 63 | 77 | 72 |    | 000-255 | LED15 - Red 0-100%    |
|  | 64 | 78 | 73 |    | 000-255 | LED15 - Green 0-100%  |
|  | 65 | 79 | 74 |    | 000-255 | LED15 - Blue 0-100%   |
|  |    | 80 |    |    | 000-255 | LED15 - White 0-100%  |
|  |    |    |    | 44 | 000-255 | LED15 - Dimmer 0-100% |
|  | 66 | 81 | 75 |    | 000-255 | LED16 - Red 0-100%    |
|  | 67 | 82 | 76 |    | 000-255 | LED16 - Green 0-100%  |
|  | 68 | 83 | 77 |    | 000-255 | LED16 - Blue 0-100%   |
|  |    | 84 |    |    | 000-255 | LED16 - White 0-100%  |
|  |    |    |    | 45 | 000-255 | LED16 - Dimmer 0-100% |
|  | 69 | 85 | 78 |    | 000-255 | LED17 - Red 0-100%    |
|  | 70 | 86 | 79 |    | 000-255 | LED17 - Green 0-100%  |
|  | 71 | 87 | 80 |    | 000-255 | LED17 - Blue 0-100%   |
|  |    | 88 |    |    | 000-255 | LED17 - White 0-100%  |
|  |    |    |    | 46 | 000-255 | LED17 - Dimmer 0-100% |
|  | 72 | 89 | 81 |    | 000-255 | LED18 - Red 0-100%    |
|  | 73 | 90 | 82 |    | 000-255 | LED18 - Green 0-100%  |
|  | 74 | 91 | 83 |    | 000-255 | LED18 - Blue 0-100%   |
|  |    | 92 |    |    | 000-255 | LED18 - White 0-100%  |
|  |    |    |    | 47 | 000-255 | LED18 - Dimmer 0-100% |
|  | 75 | 93 | 84 |    | 000-255 | LED19 - Red 0-100%    |
|  | 76 | 94 | 85 |    | 000-255 | LED19 - Green 0-100%  |
|  | 77 | 95 | 86 |    | 000-255 | LED19 - Blue 0-100%   |
|  |    | 96 |    |    | 000-255 | LED19 - White 0-100%  |
|  |    |    |    | 48 | 000-255 | LED19 - Dimmer 0-100% |

Pixel order:



## MAINTENANCE

- Make sure the area below the installation place is free from unwanted persons during servicing.
- Switch off the unit, unplug the mains cable and wait until the unit has been cooled down.

**During inspection the following points should be checked:**

- All screws used for installing the device and any of its parts should be tightly fastened and may not be corroded.
- Housings, fixations and installations spots (ceiling, truss, suspensions) should be totally free from any deformation.
- When an optical lens is visibly damaged due to cracks or deep scratches, it must be replaced.
- The mains cables must be in impeccable condition and should be replaced immediately when even a small problem is detected.
- In order to protect the device from overheat the cooling fans (if any) and ventilation openings should be cleaned monthly.
- The interior of the device should be cleaned annually using a vacuum cleaner or air-jet.
- The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics.
  - Clean with a soft cloth using normal glass cleaning products.
  - Always dry the parts carefully.
  - Clean the external optics at least once every 30 days.
  - Clean the internal optics at least every 90 days.

**Attention: We strongly recommend internal cleaning to be carried out by qualified personnel!**

## SPECIFICATIONS

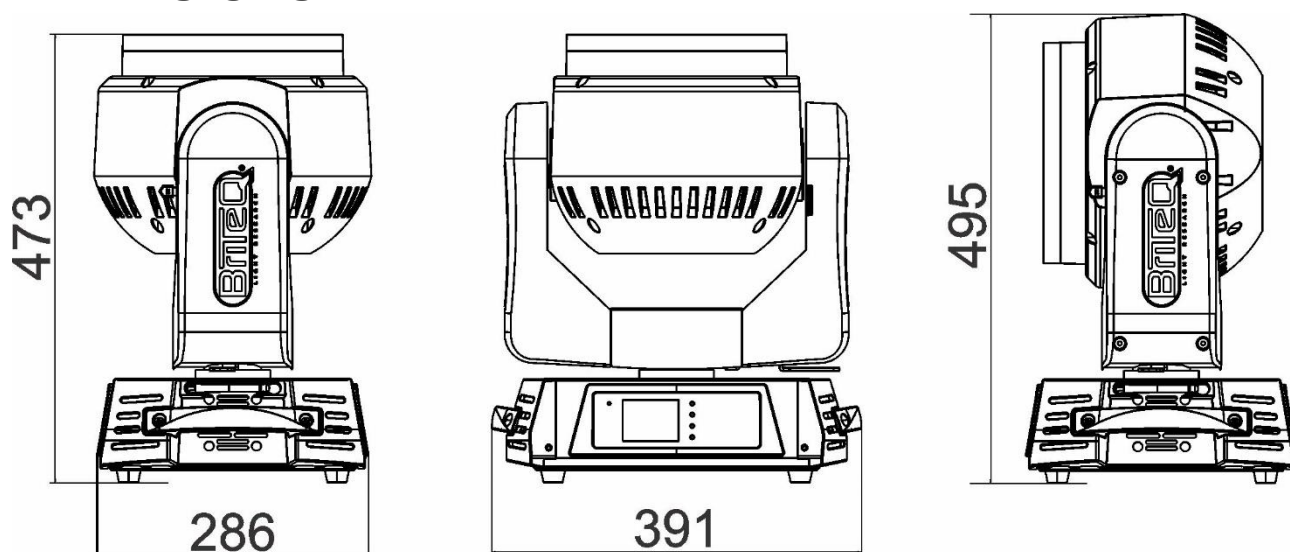
This unit is radio-interference suppressed. This product meets the requirements of the current European and national guidelines. Conformity has been established and the relevant statements and documents have been deposited by the manufacturer. This device was designed to produce decorative effect lighting and is used in light show systems.

|                           |                                                                 |
|---------------------------|-----------------------------------------------------------------|
| <b>Mains Input:</b>       | AC 100~240V, 50/60Hz                                            |
| <b>Power consumption:</b> | 650Watt                                                         |
| <b>Sound Control:</b>     | none                                                            |
| <b>DMX connections:</b>   | 3pin & 5pin XLR IN/OUT                                          |
| <b>Movement:</b>          | Pan: 540° Tilt: 210° (+ Pan/Tilt lock for transport protection) |
| <b>Beam angle:</b>        | 4° > 60°                                                        |
| <b>DMX channels used:</b> | 20-29-48-77-86-96 Channels                                      |
| <b>Lamp:</b>              | 19 Osram 30W RGBW LEDs                                          |
| <b>Size:</b>              | 390 x 287 x 494 mm (see next page)                              |
| <b>Weight:</b>            | 16 kg                                                           |

**All the information is subject to change without prior notice**

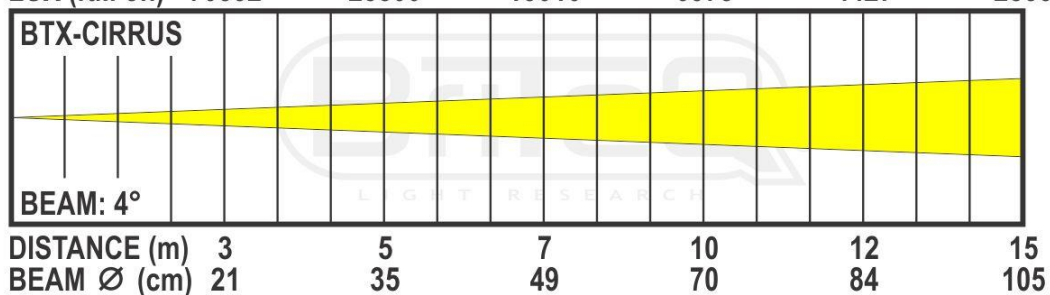
**You can download the latest version of this user manual on our website: [www.briteq-lighting.com](http://www.briteq-lighting.com)**

## DIMENSIONS

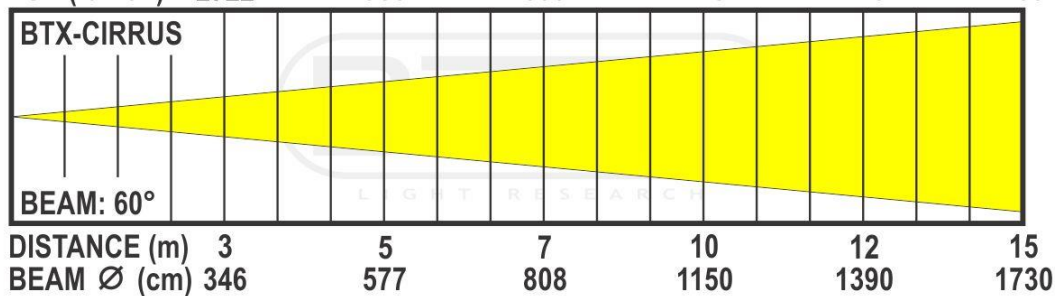


## LUX CHART

|                   |       |       |       |      |      |      |
|-------------------|-------|-------|-------|------|------|------|
| LUX (red 640nm)   | 11112 | 4000  | 2041  | 1000 | 695  | 445  |
| LUX (green 520nm) | 24167 | 8700  | 4440  | 2175 | 1510 | 967  |
| LUX (blue 445nm)  | 4235  | 1525  | 778   | 381  | 265  | 170  |
| LUX (white 7200K) | 32687 | 11770 | 6004  | 2942 | 2043 | 1307 |
| LUX (full on)     | 70832 | 25500 | 13010 | 6375 | 4427 | 2833 |



|                   |      |     |     |     |      |     |
|-------------------|------|-----|-----|-----|------|-----|
| LUX (red 640nm)   | 341  | 155 | 79  | 39  | 27   | 17  |
| LUX (green 520nm) | 958  | 345 | 176 | 86  | 60   | 38  |
| LUX (blue 445nm)  | 167  | 60  | 31  | 15  | 10,5 | 6,7 |
| LUX (white 7200K) | 1278 | 460 | 235 | 115 | 80   | 51  |
| LUX (full on)     | 2722 | 980 | 500 | 245 | 170  | 109 |







## MAILING LIST

**EN: Subscribe today to our mailing list for the latest product news!**

**FR: Inscrivez-vous à notre liste de distribution si vous souhaitez suivre l'actualité de nos produits!**

**NL: Abonneer je vandaag nog op onze mailinglijst en ontvang ons laatste product nieuws!**

**DE: Abonnieren Sie unseren Newsletter und erhalten Sie aktuelle Produktinformationen!**

**ES: Suscríbete hoy a nuestra lista de correo para recibir las últimas noticias!**

**PT: Inscreva-se hoje na nossa mailing list para estar a par das últimas notícias!**

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

**Copyright © 2019 by BEGLEC NV**

't Hofveld 2C ~ B1702 Groot-Bijgaarden ~ Belgium

Reproduction or publication of the content in any manner, without express permission of the publisher, is prohibited.