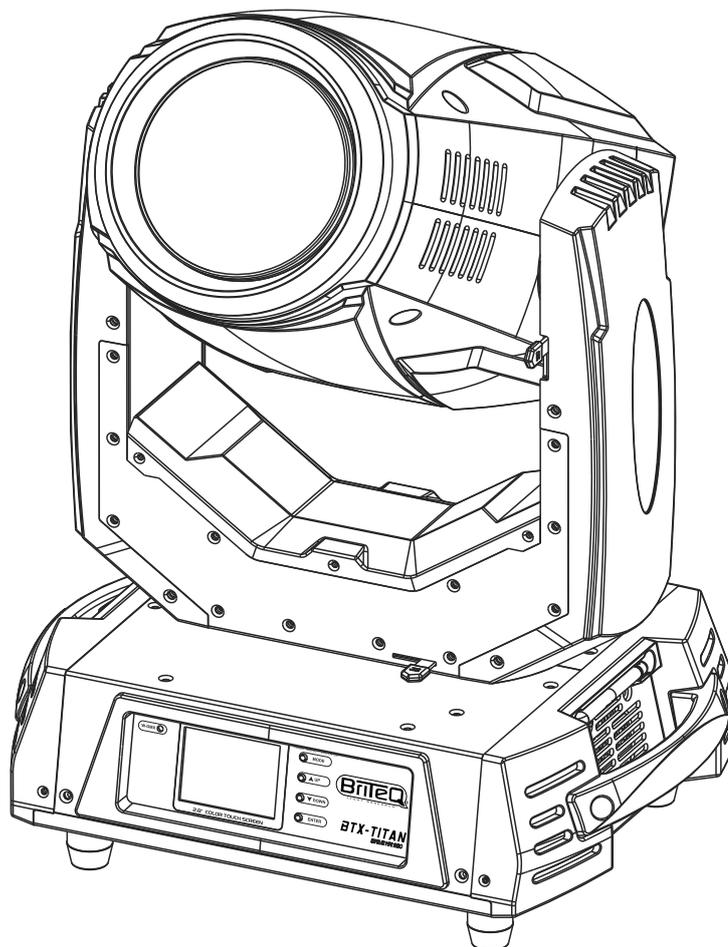# BTX-TITAN

SIRIUS HRI 280

ENGLISH

Operation Manual

Other languages (FR + NL + DU + ES)
can be downloaded from:
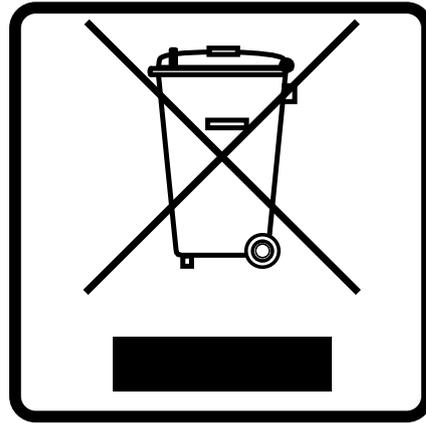WWW.BRITEQ-LIGHTING.COM

CE

Version: 1.0

BriteQ
LIGHT RESEARCH

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 pais.

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

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.

- Perfect for rental companies: this projector has BEAM + SPOT + WASH in 1 UNIT
- The OSRAM SIRIUS HRI 280 lamp (7800K), combined with Hi-Q optics, make it incredibly bright:
    - BEAM: 2,7° ~ 11°, max. 82.650 lux @ 20m
    - SPOT: 5° ~ 23°, max. 25.400 lux @ 10m
- The different effect wheels create dazzling effects:
    - 1 color wheel with 13 carefully selected colors, including CTO & CTB-filters + white
    - 1 gobo wheel with 14 static gobos + open
    - 1 gobo wheel with 9 easily replaceable rotating gobos (glass + metal, OD: 15.8mm / IM: 12.5mm)
    - **The 8 facet round + 6 facet linear prisms have separate rotation speed settings and can be mixed for stunning effects!**
    - FROST-effect (WASH effect)
    - Motorized ZOOM + FOCUS with calibrated DMX-values
    - Accurate Dimmer/shutter for linear dimming and variable strobe effects
- The 3-Phase MOONS' stepper motors assure very fast 540°/270° PAN/TILT movements with 8 or 16bit precision.
- Modular setup for easy servicing and cleaning.
- Optional wireless DMX-module available (W-DMX Sweden)
- 2.8" Color touch screen with automatic display rotation for easy and intuitive menu navigation
- 3 Different DMX channel modes (16ch, 24ch & 25ch) for maximum flexibility
- Easy firmware updates keep your machine up-to-date at all times (optional firmware updater needed)
- Remote lamp on/off control
- Neutrik 3pin & 5pin XLR® in/outputs for maximum flexibility in a professional environment
- Neutrik PowerCON® in/outputs: up to 16A can be daisy chained for easy installation
- Equipped with omega brackets for fast installation.
- Power consumption: only 400W

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.

<u>**Check the contents:**</u>
Check that the carton contains the following items:
- BTX-TITAN
- 2pcs Quick lock "Omega bracket"
- PowerCON® cable
- Safety cable
- Operating instructions
- DMX cable (3m)
- Lockable cable connector, power-out, screw terminals. (Neutrik NAC3FCB)

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 use or 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 means: Safety Class I appliance

This symbol determines: the minimum distance from lighted objects. The minimum distance between light-output and the illuminated surface must be more than 12 meters

The device is not suitable for direct mounting on normally flammable surfaces. (suitable only for mounting on non-combustible surfaces)

- 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 50cm 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 save 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. **Head**
2. **Arm**
3. **Base**
4. **Tilt arm self-locking handle**
5. **Pan self-locking handle**
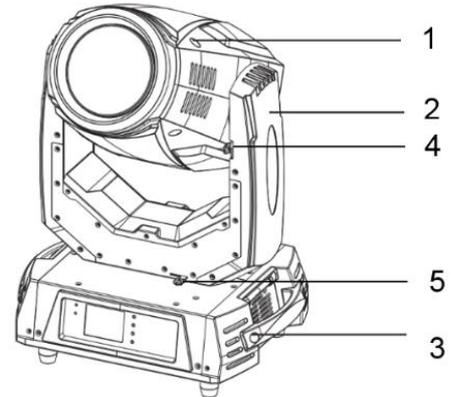
Caution: the head and arm must be unlocked before operation!
- **Tilt mechanism locks and releases every 45°**
- **Pan mechanism locks and releases every 45°**

CONTROL PANEL:
6. **Wireless DMX led**
7. **LCD Touchscreen display**
8. **MODE button**
9. **UP button**
10. **DOWN button**
11. **ENTER button**
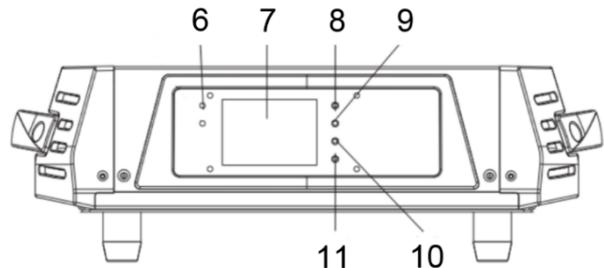
REAR PANEL:
12. **DMX XLR-5Pin out**
13. **DMX XLR-5Pin in**
14. **DMX XLR-3Pin out**
15. **DMX XLR-3Pin in**
16. **Main Fuse**
17. **Power switch**
18. **PowerCon® In**
19. **PowerCon® Out**
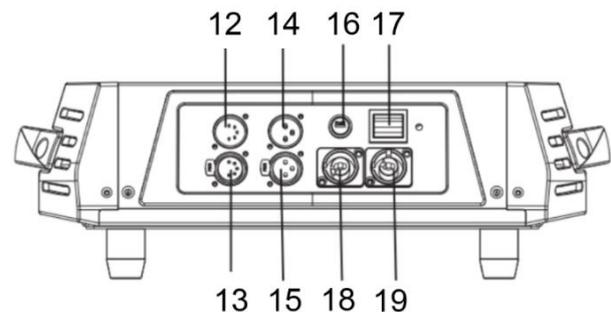
Hint: Please check our website for special cable assemblies that contain both power (3x1.5mm² with Neutrik PowerCON®) and balanced signal (XLR 3pin) in one cable. Different lengths are available: 1.3m, 3m, 5m and 10m, very convenient!

LAMP (RE)PLACEMENT

⚠️ **In case of replacement of the lamp or maintenance, do not open the fixture within 10 minutes until the unit cools down after switching off. Always unplug the unit before servicing! Always use the same type of spare parts (bulbs, fuses, etc.) When replacing parts, please only genuine spare parts.**

Because of its high internal pressure, there might be a risk that the Discharge lamp would explode during operation. The lamp emits intense UV radiation which is harmful to the eyes and skin. The high luminance of the arc can cause severe damage to the retina if you take a close look at the lamp.

To protect the lamp, always turn off the lamp first (via control panel or DMX controller) and let the unit run at least five minutes to cool down before switching off the mains supply. Never handle the lamp or luminary when it is hot.

Wear gloves, do not touch the bulb with bare hands. If this happens, clean the lamp with denatured alcohol and wipe it with a lint free cloth before installation.

When lighting up, the lamp operates at high pressure and there is a slight risk of arc tube rupture. The risk increases with age, temperature and improper handling of the lamp.

Do not use the lamp longer than its lifespan.

Make sure the lamp is located in the center of the reflector for the best projection.

- Switch off the unit and unplug the mains cable.
- Wait for about 10 minutes until the unit has been cooled down.
- Use a screwdriver to unscrew the screws (A-B-C) to open the back cover of the fixture.(Fig. 1)
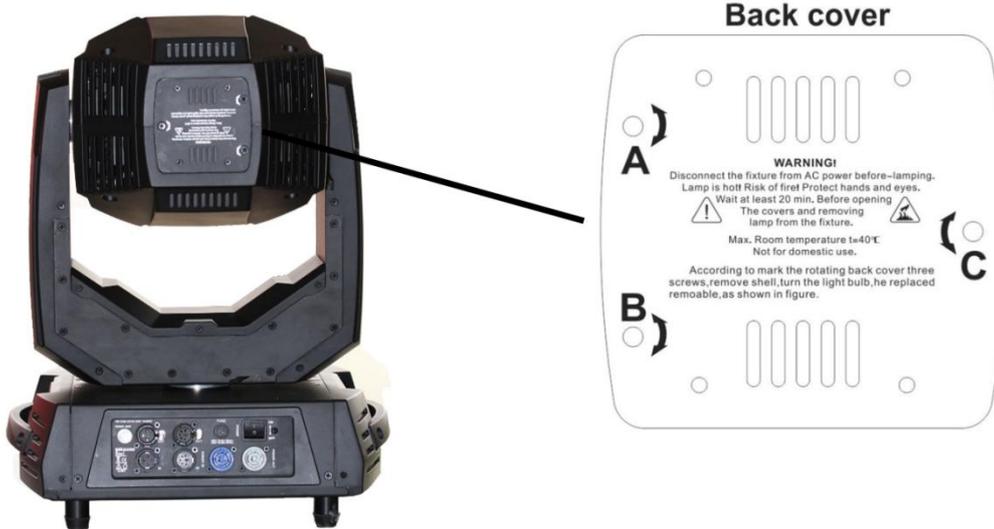
Figure 1 – Back cover

Inside you will find the OSRAM "Sirius HRI 280W E20.6" lamp (Figure 2)

Attention: wear gloves, do not touch the bulb with bare hands. If this happens, clean the lamp with denatured alcohol and wipe it with a lint free cloth before installation. Not doing this will shorten the life of the new lamp!

Figure 2 - OSRAM Sirius HRI 280W

- Remove the cables gently from the lamp terminals (Fig.3)
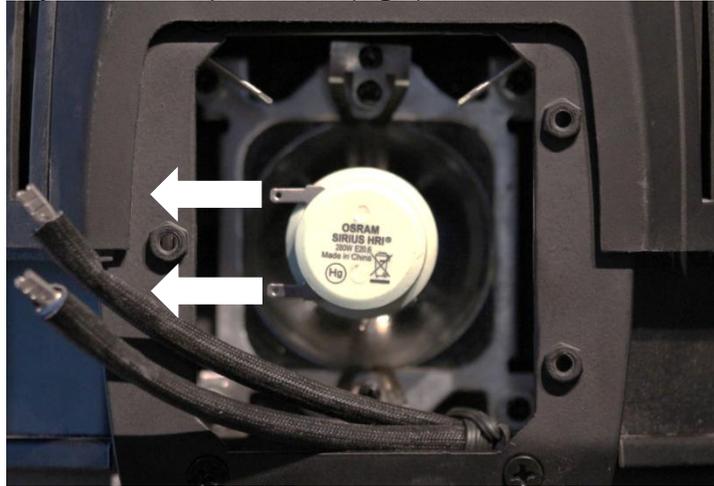
Figure 3 - Removed cables

- No need to unscrew any more scews to remove the lamp, just GENTLY move the two metal parts that maintain the lamp in position. Hold the lamp by the base during this operation (Figure 4)
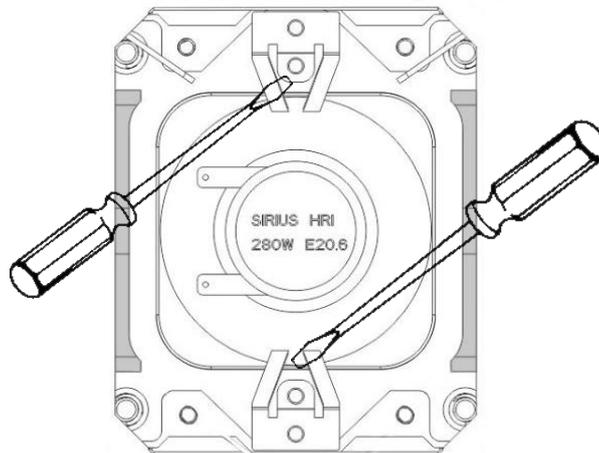
Figure 4 - Move the metal support of the lamp GENTLY

- Remove the lamp from the head of the BTX-TITAN (Figure 5)
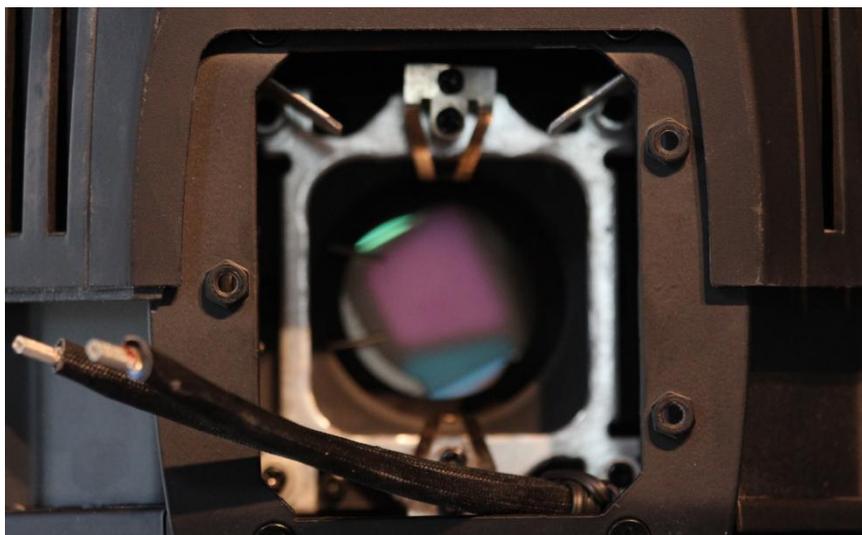
Figure 5 - Lamp removed from the head of the BTX-TITAN

- Connect the cables to the new OSRAM "Sirius HRI 280W E20.6" lamp
  Important: ONLY use an original "Philips MSD Platinum 2R" lamp, other lamps could result in less performance or even damage the unit.
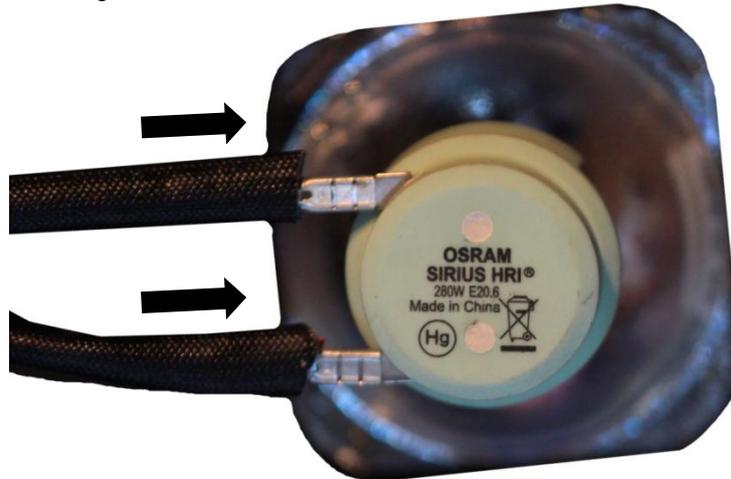
- Place the new lamp on the support by pressing it until the two metal supports maintains correctly the lamp.

- Switch the unit back on and use a DMX controller to point the open beam on a wall.
  Attention: avoid looking at light coming directly from the lamp inside the unit, the UV-radiation of the lamp is harmful for your eyes. (The light of the beam passes through a UV-filter first)

- You will see a hotspot in the beam projected on the wall. Adjust this hotspot using the screw as shown in Fig. 6. The hotspot should be as much as possible in the center of the beam.
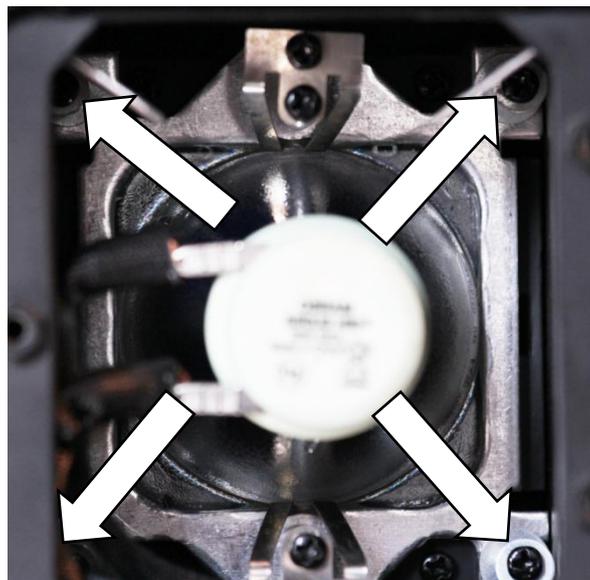
Figure 6 - Hotspot correction screws

- Close the cover
- Done

OVERHEAD RIGGING

- <u>Important:</u> **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.

<u>Installation:</u>
- 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.
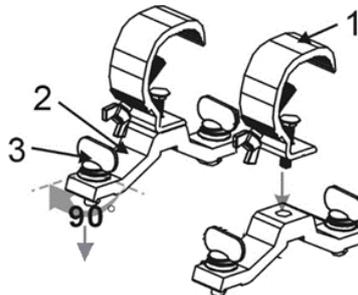
OMEGA BRACKET HOLES
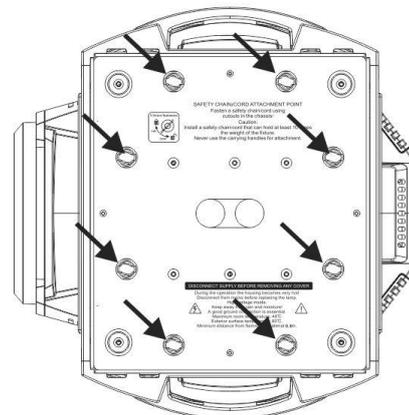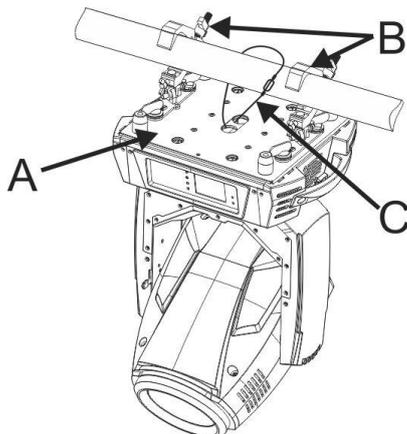
A = Mounting plate
B = Quick clamps
C = Safety cable / Security chain

MOUNTING

The fixture can be installed in any position
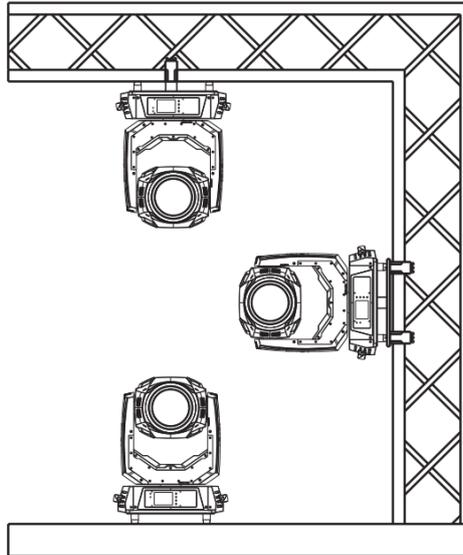
ELECTRICAL INSTALLATION + ADDRESSING

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

<u>Electrical installation for two or more units in DMX-mode:</u>
- 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.
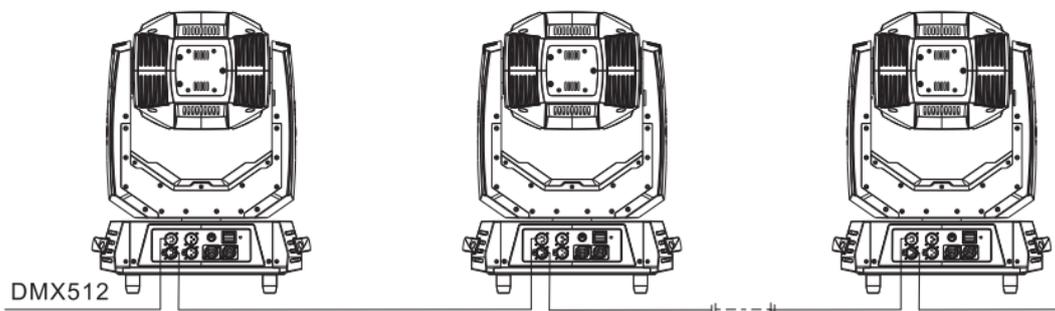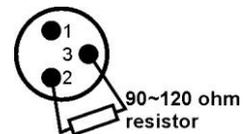
OPERATING INSTRUCTIONS

- Do not switch the unit on and off in short time intervals as this reduces the lamp life.
- Always unplug the unit when it is not used for a longer time or before replacing the bulb and or making the service.
- 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 MENU button to return to the (previous) menu.

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 splitup 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).
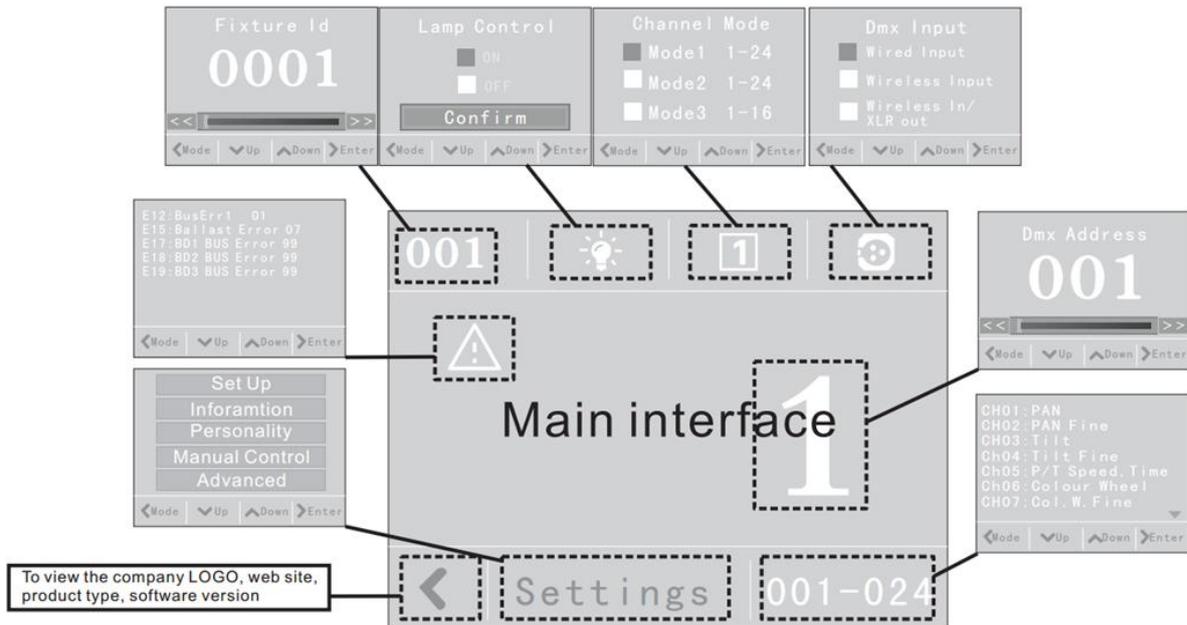
FIXTURE ID

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".

LAMP CONTROL

Set the lamp ON or OFF

CHANNEL MODE

Set the channel mode of BriteQ BTX-TITAN:
- **Mode 1:** 24 Channels
- **Mode 2:** 25 Channels
- **Mode 3:** 16 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.
- **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.

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 apprear. Please check the list of error codes at the end of the user manual.

SETTINGS MENU

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

MENU MAP – PART 1

SETUP	DMX Address	001 ↓ 512
	Channel Mode	Mode 1 (24 Channels) / Mode 2 (25 Channels) / Mode 3 (16 Channels)
	Fixture ID	001 ↓ 001

INFORMATION	Fixture Times	XXXXX h XXm
	Lamp Times	Lamp On Times XXh XX m / Lamp Strike XXXX / Reset Lamp Time
	Error List	
	Diagnosis	BOARD 1 : XX.XX% / BOARD 2 : XX.XX% / BOARD 3 : XX.XX%
	Fan Monitor	
	DMX Values	

PERSONALITY	Lamp	Power ON Light ON/OFF / Light By DMX ON/OFF / Lamp ON Delay 0~60m
	Pan/Tilt	Pan Reverse ON/OFF / Tilt Reverse ON/OFF / Feedback ON/OFF
	DMX Input	Wired Input / Wireless Input / Wireless In/XLR out
	BlackOut	P/T Moving ON/OFF / Colour Moving ON/OFF / Gobo Moving ON/OFF
	Screen	Brightness / Screen Time 0~10m / Touch Close ON/OFF / Auto Screen ON/OFF

MENU MAP – PART 2

	Lamp	Lamp Control ON/OFF
		Confirm
	Reset	Reset All
		Reset Pan/Tilt
		Reset Colour
		Reset Gobo
MANUAL CONTROL		Reset Colour
	Channel	Pan
		Pan Fine
		Tilt
		Tilt Fine
		Pan/Tilt speed, time
		Power/special functions
		Color
		Color Fine
		Effect speed
		Static gobos
		Rotating gobos
		Rot. rotating gobo
		Rot. Rotating gobo fine
		Prism
		6 Prism rotation
		8 Prism rotation
		Frost
		Zoom
		Zoom fine
		Focus
		Focus fine
		Autofocus
		Shutter/strobe
		Dimmer
		Dimme fine

	Calibration	Internal motors (14)	001 ↓ 255
ADVANCED	**Factory default**	Reload factory default	
	Touch calibration	Touch red cross to calibrate	

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 pessing 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-TITAN:
- **Mode 1:** 24 Channels
- **Mode 2:** 25 Channels
- **Mode 3:** 16 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 LAMP TIMES
Lamp on times: Show the total hours with lamp on since it first start
Lamp strikes: Show the total count of lamp strike since it first start
Reset lamp time: Reset the total hours with lamp on since it first start.
Should be done after changing the bulb.

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

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

PERSONALITY LAMP
Power on light (on – off):
- **On:** Turn the lamp on at power on.
- **Off:** The lamp has to be switched on using the local menu or DMX.

Lamp on by DMX (on – off):
- **On:** lamp can be switched on by DMX.
- **Off:** lamp cannot be switched on by DMX.

Lamp on delay (0-60min):
The lamp is automatically switched on 0-60min after the projector was switched on. Delayed start can be useful in permanent installation.

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 BLACKOUT

P/T moving (on-off)
- **On:** Blackout while pan/tilt is moving
- **Off:** No blackout while pan/tilt is moving

Colour moving (on-off)
- **On:** Blackout while colour changes
- **Off:** No blackout while colour changes

Gobo moving (on-off)
- **On:** Blackout whiles gobo changes
- **Off:** No blackout while gobo changes

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-TITAN.
- **Off:** the screenhe orientation is fixed

MANUAL CONTROL LAMP

Lamp control (on-off):   Set the lamp on/off manually

MANUAL CONTROL RESET

Reset All: Reset all functions of the BriteQ BTX-TITAN
Reset pan/tilt: Reset pan and tilt
Reset colour: Reset colour wheel
Reset gobo: Reset gobo wheel
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 CHANNEL (FULL VERSION)

The unit is equipped with 3 different DMX modes:
- **24CH-MODE:** Full functionality mode
- **25CH-MODE:** Full functionality extended mode with separate rotating speed control for both prisms.
- **16CH-MODE:** Simple mode with limited functionality

24CH	25CH	16CH	VALUE	FUNCTION
1	**1**	**1**	000-255	**PAN**
2	**2**		000-255	**PAN FINE (Least significant bit)**
3	**3**	**2**	000-255	**TILT**
4	**4**		000-255	**TILT FINE (Least significant bit)**
5	**5**	**3**	000-255	**PAN / TILT SPEED (fast to slow)**
6	**6**	**4**		**POWER / SPECIAL FUNCTIONS**
			000 - 009	Reserved
			+ IMPORTANT +	**To activate the following functions, the Shutter / strobe of the selected unit should be closed (0-31 DMX Value) for more than 3s in order to validate the special function**
			010 - 014	DMX input: Wired DMX*
			015 - 019	DMX input: Wireless DMX*
			020 - 024	Eco mode (Lamp power 230W)
			025 - 029	Standard mode (Lamp power 280W)
			030 - 049	Reserved
			050 - 059	Pan/Tilt speed mode
			060 - 069	Pan/Tilt time mode
			070 - 079	Blackout when pan/tilt moving
			080 - 089	Disabled blackout when pan/tilt moving
			090 - 099	Blackout when colour wheel moving
			100 - 109	Disabled blackout when colour wheel moving
			110 - 119	Blackout when gobo wheel moving
			120 - 129	Disabled blackout when gobo wheel moving
			130 - 139	Lamp On, reset (total reset except pan/tilt reset)
			140 - 149	Pan/Tilt reset
			150 - 159	Colour system reset
			160 - 169	Gobo wheels reset
			170 - 179	Dimmer/shutter
			180 - 189	Zoom/focus/prism reset
			190 - 199	Reserved
			200 - 209	Total reset
			210 - 229	Reserved
			230 - 239	Lamp Off
			240 - 255	Reserved
7	**7**	**5**		**COLOR**
			000 -008	Open/white
			009 - 017	Deep red
			018 - 026	Deep blue
			027 - 036	Yellow
			037 - 045	Green
			046 - 054	Magenta
			055 - 063	Azure
			064 - 072	Red

			073 - 081	Dark green
			082 - 090	Amber
			091 - 100	Blue
			101 - 109	Orange
			110 - 118	CTO
			119 - 127	UV filter
			128 - 129	White
			Positioning	
			130 - 134	Deep red
			135 - 138	Deep blue
			139 - 143	Yellow
			144 - 147	Green
			148 - 152	Magenta
			153 - 157	Azure
			158 - 161	Red
			162 - 166	Dark green
			167 - 171	Amber
			172 - 176	Blue
			177 - 180	Orange
			181 - 185	CTO
			186 - 189	UV Filter
			190 - 215	Forwards rainbow effect from fast to slow
			216 - 217	No rotation
			218 - 243	Backwards rainbow effect from slow to fast
			244 - 249	Random colour selection by audio control
			Random colour selection by audio control	
			250 - 255	Auto random colour selection from fast to slow
8	**8**		000 - 255	**COLOR FINE**
9	**9**	**6**	000 - 255	**EFFECT SPEED**
			Speed of Rot. Gobo selection from max. to min.	
10	**10**	**7**		**STATIC GOBO**
			000 - 003	Open/hole
			004 - 009	Gobo 1
			010 - 015	Gobo 2
			016 - 021	Gobo 3
			022 - 027	Gobo 4
			028 - 033	Gobo 5
			034 - 039	Gobo 6
			040 - 045	Gobo 7
			046 - 051	Gobo 8
			052 - 057	Gobo 9
			058 - 063	Gobo 10
			064 - 069	Beam reducer 1
			070 - 075	Beam reducer 2
			076 - 081	Beam reducer 3
			082 - 087	Beam reducer 4
			Shaking gobos from slow to fast	
			088 - 095	Gobo 1 - shaking
			096 - 103	Gobo 2 - shaking
			104 - 111	Gobo 3 - shaking
			112 - 119	Gobo 4 - shaking
			120 - 127	Gobo 5 - shaking

			128 - 135	Gobo 6 - shaking
			136 - 143	Gobo 7 - shaking
			144 - 151	Gobo 8 - shaking
			152 - 159	Gobo 9 - shaking
			160 - 167	Gobo 10 - shaking
			168 - 175	Beam reducer 1 - shaking
			176 - 183	Beam reducer 2 - shaking
			184 - 191	Beam reducer 3 - shaking
			192 - 199	Beam reducer 4 - shaking
			200 - 201	Open/hole
			202 - 221	Forwards gobo wheel rotation from fast to slow
			222 - 223	No rotation
			224 - 243	Backwards gobo wheel rotation from slow to fast
			244 - 249	Random gobo selection by audio control
			(Set microphone sensitivity in "Personality")	
			250 - 255	Auto random gobo selection from fast to slow
11	**11**	**8**		**ROTATING GOBO**
			In the range of 000 - 059 DMX the gobo selection speed is Controlled by the effect speed channel	
			Index – set indexing on channel 12/9	
			000	Open/Hole (default)
			001 - 004	Hole (flat field)
			005 - 007	Gobo 1
			008 - 010	Gobo 2
			011 - 013	Gobo 3
			014 - 016	Gobo 4
			017 - 019	Gobo 5
			020 - 022	Gobo 6
			023 - 025	Gobo 7
			026 - 028	Gobo 8
			029 - 031	Gobo 9
			Rotation - set rotation on channel 12/9	
			032 - 034	Gobo 1
			035 - 037	Gobo 2
			038 - 040	Gobo 3
			041 - 043	Gobo 4
			044 - 046	Gobo 5
			047 - 049	Gobo 6
			050 - 052	Gobo 7
			053 - 055	Gobo 8
			056 - 059	Gobo 9
			Shaking gobos from slow to fast	
			Index - set indexing on channel 12/9	
			060 - 067	Gobo 1
			068 - 075	Gobo 2
			076 - 083	Gobo 3
			084 - 091	Gobo 4
			092 - 099	Gobo 5
			100 - 107	Gobo 6
			108 - 115	Gobo 7
			116 - 123	Gobo 8
			124 - 129	Gobo 9
			Shaking gobos from slow to fast	

				Rotation – set rotation on channel 12/9	
				130 - 137	Gobo 1
				138 - 145	Gobo 2
				146 - 153	Gobo 3
				154 - 161	Gobo 4
				162 - 169	Gobo 5
				170 - 177	Gobo 6
				178 - 185	Gobo 7
				186 - 193	Gobo 8
				194 - 199	Gobo 9
				200 - 201	Open/hole
				202 - 221	Forwards gobo wheel rotation from fast to slow
				222 - 223	No rotation
				224 - 243	Backwards gobo wheel rotation from slow to fast
				244 - 249	Random gobo selection by audio control
				(Set microphone sensitivity in menu "Personality")	
				250 - 255	Auto random gobo selection from fast to slow
12	**12**	**9**			**ROTATING GOBO ROTATION**
				Gobo indexing – set position on channel 11/8	
				000 - 255	Gobo indexing
				Gobo rotation – set position on channel 11/8	
				000	No rotation
				001 - 127	Forwards gobo rotation from fast to slow
				128 - 129	No rotation
				130 - 255	Backwards gobo rotation from slow to fast
13	**13**				**ROTATING GOBO ROTATION FINE**
				000 - 255	Fine indexing (rotation)
14	**14**	**10**			**PRISM**
				000 - 019	Open
				020 - 039	6-facet linear rotating prism indexing
				040 - 049	6-facet linear rotating prism rotation
				050 - 059	8-facet circular rotating prism indexing
				060 - 069	8-facet circular rotating prism rotation
				070 - 079	6-facet and 8-facet rotating prism indexing
				080 - 089	6-facet and 8-facet rotating prism rotation
				090 - 108	6-facet linear rotating prism indexing 8-facet circular rotating prism rotation
				109 - 127	6-facet linear rotating prism rotation 8-facet circular rotating prism indexing
				128 - 135	Macro 1
				136 - 143	Macro 2
				144 - 151	Macro 3
				152 - 159	Macro 4
				160 - 167	Macro 5
				168 - 175	Macro 6
				176 - 183	Macro 7
				184 - 191	Macro 8
				192 - 199	Macro 9
				200 - 207	Macro 10
				208 - 215	Macro 11
				216 - 223	Macro 12
				224 - 231	Macro 13

			232 - 239	Macro 14
			240 - 247	Macro 15
			248 - 255	Macro 16
	15			**6 FACET LINEAR PRISM ROTATION**
			Prism indexing	
			000 - 255	Prism indexing
			Prism rotation	
			000	No rotation
			001 - 127	Forwards prism rotation from fast to slow
			128 - 129	No rotation
			130 - 255	Backwards prism rotation from slow to fast
	16			**8 FACET CIRCULAR PRISM ROTATION**
			Prism indexing	
			000 - 255	Prism indexing
			Prism rotation	
			000	No rotation
			001 - 127	Forwards prism rotation from fast to slow
			128 - 129	No rotation
			130 - 255	Backwards prism rotation from slow to fast
15		**11**		**PRISM ROTATION**
			Prism indexing – set position on channel 14/10	
			000 - 255	Prism indexing
			Prism rotation – set position on channel 14/10	
			000	No rotation
			001 - 127	Forwards prism rotation from fast to slow
			128 - 129	No rotation
			130 - 255	Backwards prism rotation from slow to fast
16	**17**	**12**	000 - 255	**FROST**
			Frost from 0% to 100%	
17	**18**	**13**	000 - 255	**ZOOM**
			Zoom from max. to min. angle	
18	**19**		000 - 255	**ZOOM FINE**
			Fine zooming	
19	**20**	**14**	000 - 255	**FOCUS**
			Focus adjustment from far to near	
20	**21**		000 - 255	**FOCUS FINE**
			Fine focusing	
21	**22**			**AUTOFOCUS**
			Select desired distance and effect on which you need to focus and use "Focus" channel to focus the image	
			000	Autofocus off
			Rotating gobos & hole	
			001 - 007	10 metres
			008 - 015	15 metres
			016 - 023	20 metres
			024 - 031	25 metres
			032 - 039	30 metres
			040 - 047	35 metres
			048 - 055	40 metres
			056 - 063	45 metres
			Static gobos & hole	
			064 - 071	10 metres
			072 - 079	15 metres

			080 - 087	20 metres
			088 - 095	25 metres
			096 - 103	30 metres
			104 - 111	35 metres
			112 - 119	40 metres
			120 - 126	45 metres
			127	Infinity
			128 - 255	Reserved
22	**23**	**15**		**SHUTTER / STROBE**
			000 - 031	Shutter closed (Lamp power reduced to 230W)
			032 - 063	Shutter open, full lamp power
			064 - 095	Strobe-effect from slow to fast
			096 - 127	Shutter open
			128 - 143	Opening pulse in sequences from slow to fast
			144 - 159	Closing pulse in sequences from fast to slow
			160 - 191	Shutter open
			192 - 223	Random strobe-effect from slow to fast
			224 - 255	Shutter open, full lamp power
23	**24**	**16**	000 - 255	**DIMMER**
				Dimmer intensity from 0% to 100%
24	**25**		000 - 255	**DIMMER FINE**
				Fine dimming

DMX CHANNEL (SHORT VERSION)

24CH	25CH	16CH	FUNCTION
1	**1**	**1**	**PAN**
2	**2**		**PAN FINE (Least significant bit)**
3	**3**	**2**	**TILT**
4	**4**		**TILT FINE (Least significant bit)**
5	**5**	**3**	**PAN / TILT SPEED (fast to slow)**
6	**6**	**4**	**POWER / SPECIAL FUNCTIONS**
7	**7**	**5**	**COLOR**
8	**8**		**COLOR FINE**
9	**9**	**6**	**EFFECT SPEED**
10	**10**	**7**	**STATIC GOBO**
11	**11**	**8**	**ROTATING GOBO**
12	**12**	**9**	**ROTATING GOBO ROTATION**
13	**13**		**ROTATING GOBO ROTATION FINE**
14	**14**	**10**	**PRISM**
	15		**6 FACET LINEAR PRISM ROTATION**
	16		**8 FACET CIRCULAR PRISM ROTATION**
15		**11**	**PRISM ROTATION**
16	**17**	**12**	**FROST**
17	**18**	**13**	**ZOOM**
18	**19**		**ZOOM FINE**
19	**20**	**14**	**FOCUS**
20	**21**		**FOCUS FINE**
21	**22**		**AUTOFOCUS**
22	**23**	**15**	**SHUTTER / STROBE**
23	**24**	**16**	**DIMMER**
24	**25**		**DIMMER FINE**

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.

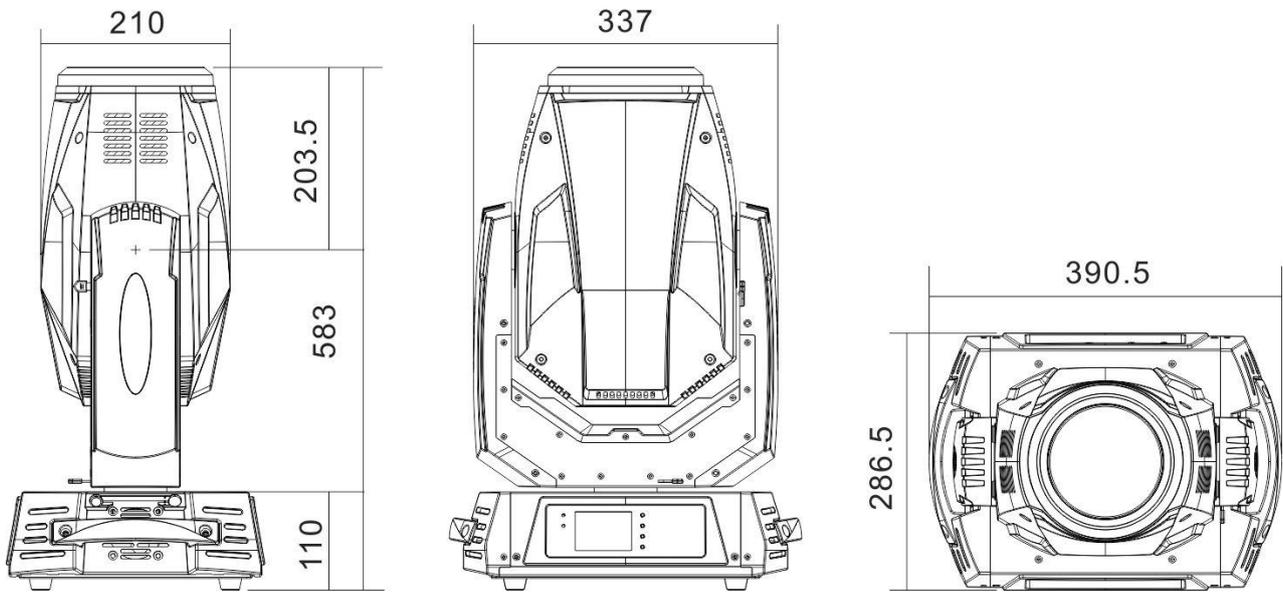**Attention:** **We strongly recommend internal cleaning to be carried out by qualified personnel!**

SPECIFICATIONS

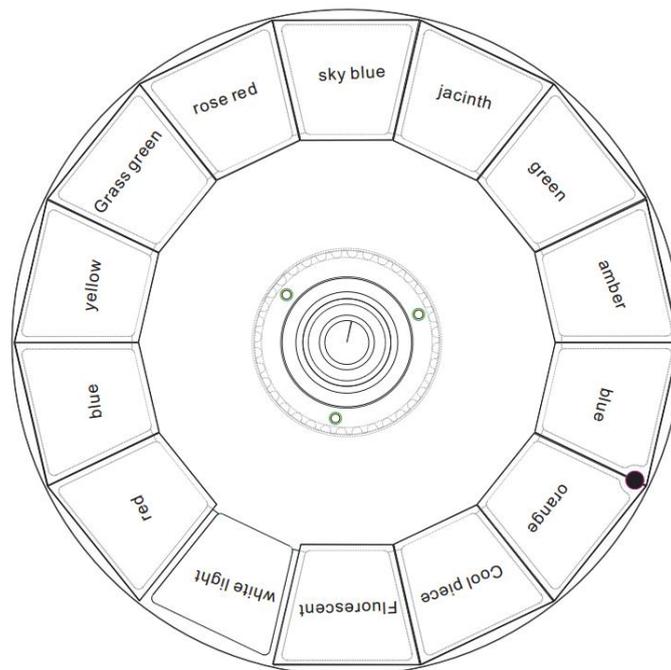|	
Mains Input:	AC 100~240V, 50/60Hz
Power consumption:	400Watt
Fuse:	250V 6,3A fuse
Sound Control:	none
DMX connections:	3pin & 5pin XLR IN/OUT
Movement:	Pan: 540° Tilt: 270° (+ Pan/Tilt lock for transport protection)
Dimmer/Shutter:	Mechanical dimmer
Color wheel:	1 open + 13 fixed colors (see below)
Fixed gobo wheel:	1 open + 14 fixed gobos (see below)
Rotating gobo wheel:	1 open + 9 rotating gobos (see below)
Effect:	8 facets circular and 6 facets lineat rotating prisms & frost
Beam angle:	2.7° > 11°
Focus:	Electronic (16 bits)
DMX channels used:	16-24-25 Channels
Lamp:	Osram Sirius HRI 280W E20.6
Size:	391 x 287 x 583 mm
Weight:	15 kg

Every information is subject to change without prior notice
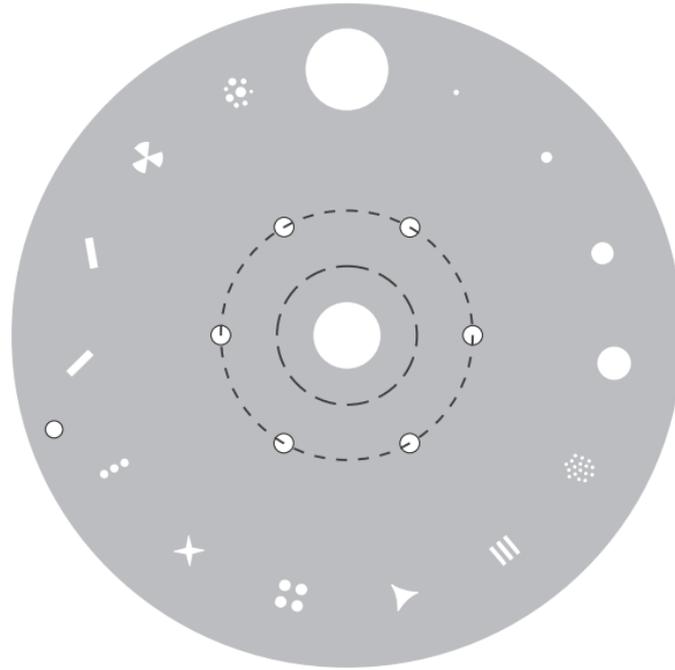**You can download the latest version of this user manual on our website: www.briteq-lighting.com**

DIMENSIONS

COLOUR WHEEL

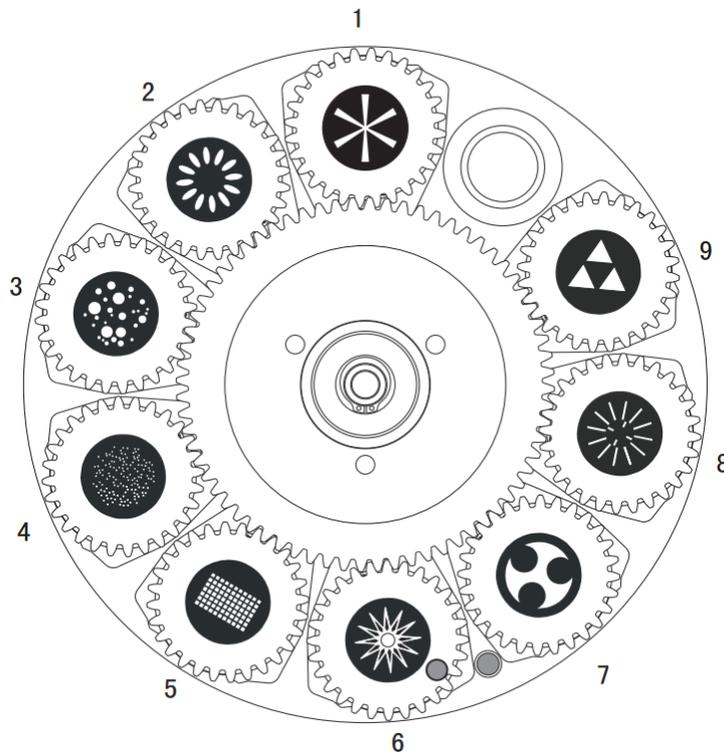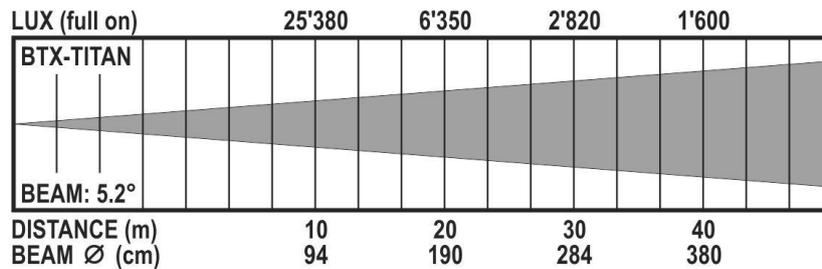## FIXED GOBO WHEEL (effective diameter 5.8mm)

ROTATING GOBO WHEEL

LUX CHARTS

LUX (full on)	330'600	82'650	36'750	20'670

BTX-TITAN

BEAM: 2.6°

DISTANCE (m)	10	20	30	40
BEAM Ø (cm)	48	94	142	188

LUX (full on)	25'380	6'350	2'820	1'600

BTX-TITAN

BEAM: 5.2°

DISTANCE (m)	10	20	30	40
BEAM Ø (cm)	94	190	284	380
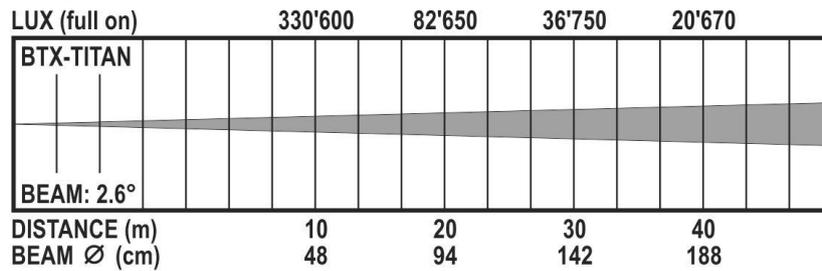
TROUBLESHOOTING

ERROR LIST

CODE	ERROR MESSAGE	NAME	EXPLANATION
E14	SPDError	Wrong setting parameters (automatic recovery) EOL	Reset all setting parameters
E15	Ballast Error	Ballast Error	Check whether the rectifier control line is wrong, change the rectifier
E16	MFpga Error	Master control chip error	Change the main control chip or change the display board semi-finished products
E17	BD1 BUS Error	To scan the communication error	Look for virtual communication signal lines, communication chip welding or short circuit
E18	BD2 BUS Error	Scanning to the driven plate 1 communication error	
E19	BD3 BUS Error	Drive plate 1 to drive plate 2 communication error	
E21	Pan FB. Err	Levels of light coupling error	Check that the light coupling line, optical coupling switch and a plate of the relative position measurement
E22	Pan Zero Err	Level of magnetic susceptibility (origin) error	Check line magnetic susceptibility, magnets and magnetic susceptibility of distance and location, have the magnet
E23	Tilt FB. Err	The vertical light coupling error	Check that the light coupling line, optical coupling switch and a plate of the relative position measurement
E24	Tilt Zero Err	Vertical magnetic susceptibility (origin) error	Check line magnetic susceptibility, magnets and magnetic susceptibility of distance and location, have the magnet
E25	6 Prism Err1	Six prism magnetic susceptibility (origin) error	
E26	6 Prism Err2	Six prism rotation of magnetic susceptibility (origin) error	
E27	8 Prism Err1	Eight prism magnetic susceptibility (origin) error	
E28	8 Prism Err2	Eight prism rotation of magnetic susceptibility (origin) error	
E29	R.Gobo Err1	Rotate magnetic susceptibility (origin) error	
E30	R.Gobo Err2	Rotating magnetic susceptibility patterns (origin) error	
E31	Zomm Err	Amplification of magnetic susceptibility (origin) error	
E32	Focus Err	Focusing magnetic susceptibility (origin) error	
E33	St.Gobo Err	Fixed plate of magnetic susceptibility (origin) error	
E34	ColourW. Err	Color piece of magnetic susceptibility (origin) error	
E35	Hot Err	Heat insulation motor/magnetic susceptibility (origin) error	Check the line of magnetic susceptibility, magnets and magnetic susceptibility of distance and location, is there a magnet, the motor line ever.

BRITEQ

LIGHT RESEARCH

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