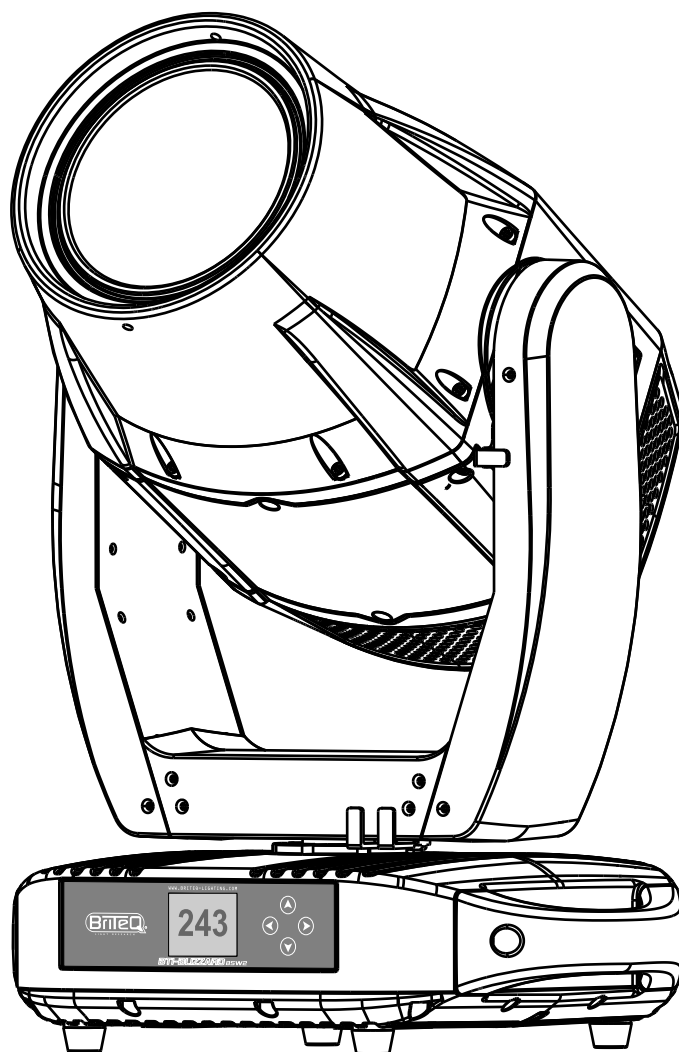# BTI-BLIZZARD BSW2

ENGLISH

Operation Manual

Other languages can be downloaded from:
WWW.BRITEQ-LIGHTING.COM

C E

Version: 1.0

BRITEQ
LIGHT RESEARCH

RECYCLE

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

- BTI-BLIZZARD BSW2 is a powerful HYBRID moving head, based on a 450W white LED module.
- **IP65 protection and low noise operation**: perfect for both outdoor and indoor use!
- Wide range electronic zoom, from 3° to 30°.
- Autofocus for different zoom settings.
- Super silent fan mode for theater applications.
- Fast 16bit pan/tilt movements with position correction and pan/tilt speed channel.
- CMY color system, including several color macros.
- 7+1 fixed colors, including UV.
- 7+1 replaceable rotating glass gobos with fine indexing.
- 7+1 replaceable static glass gobos for gobo layering.
- Bi-rotating 5 facets prism.
- Nonstop rotating animation wheel with indexing.
- Linear frost filter for perfect wash effect.
- Accurate strobe with built in random, pulse and burst effects.
- Smooth 16bit dimmer with fast and slow dimming mode.
- Four dimmer curves: linear, square, inverse square, S-curve
- Uses 22, 26 or 29 DMX channels + RDM-functionality for easy remote setup.
- Full support for Art-Net™ and sACN!
- Internal webserver for additional remote setup.
- The matrix LCD-display assures easy navigation in the different setup menus
- 3pin DMX in/outputs + RJ45 in/out + PowerCON TRUE1 compatible

BEFORE USE

- Before you start using this unit, please check if there is 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 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:
- BTI-BLIZZARD BSW2
- PowerCON® TRUE-1 compatible mains cable
- 2 BriteQ omega brackets BIG
- 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 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 determines: the minimum distance from lighted objects. The minimum distance between light-output and the illuminated surface must be more than 0.2 meters

- 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 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 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.
- 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:

REAR PANEL:
1. **Seetronic IP65 power input**
2. **Fuse slot** (20x5mm, T6,3A / 250V)
3. **Network in/output for ArtNet & sACN**
4. **XLR output 5-pin**
5. **XLR input 5-pin**
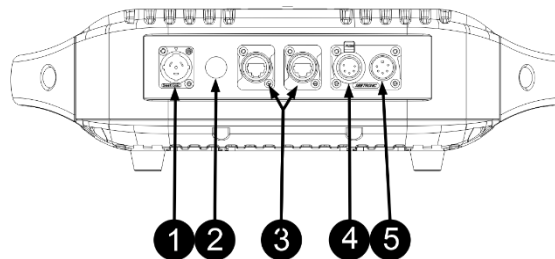
Hint: Please check our website for special cable assemblies
that contain both power (3x1.5mm² with PowerCON® TRUE-1) and balanced signal (XLR 3pin) in one cable.
Different lengths are available: 1.5m, 3m and 5m, very convenient!

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 must 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.
- Fix the Truss hooks to the optional omega brackets with screw and locking nut.
- Fasten the omega brackets on the bottom of the base by inserting quick-lock fasteners into the holes of the base and tighten fully clockwise. (you should hear or feel a 'click')
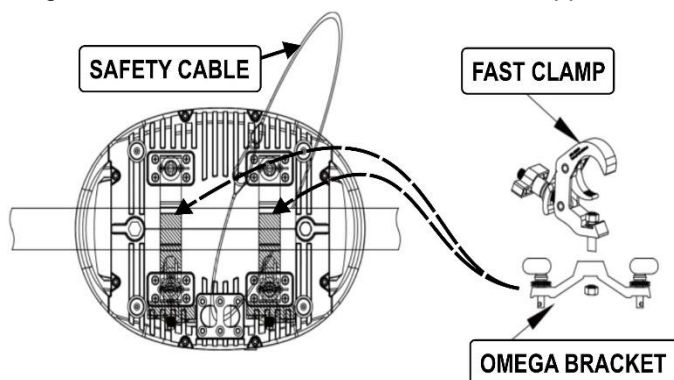
ELECTRICAL INSTALLATION

⚠️ **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 ArtNet/sACN-mode:
Art-Net is nothing more than a protocol for transmitting DMX512 over an Ethernet network, developed by Artistic Licence Engineering (UK) Ltd. Thanks to the much bigger bandwidth it is possible to send more than 256 DMX-universes in one time.
This projector can be connected in such Ethernet network using routers, switches etc. The network topology is exactly the same as for a normal PC-network. However, IP-addresses cannot be obtained via DHCP: see the explanations in the chapter "setup menu" on how to manually setup the IP-address, Net Mask and choose the desired DMX-universe. Also the sACN protocol is supported.
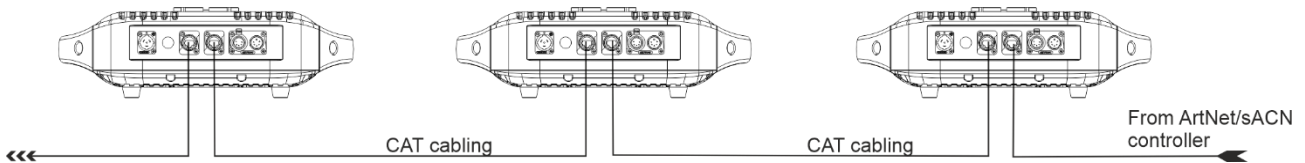
IMPORTANT NOTE: this projector has both Ethernet input and output so you can daisy chain several units. However, the number of units in one chain should be limited to ±10 units to avoid unwanted signal delays. In bigger installations you should use the "STAR-topology" using Ethernet switches (or a combination of both).

Electrical installation for two or more units in ArtNet to DMX-mode:
- Internally the selected DMX-universe is treated as a normal DMX-signal so further setup of the DMX-address, channel mode etc. should be done as usual.
- Thanks to the internal Art-Net node all 512 channels of the selected DMX-universe are automatically converted from Art-Net to the DMX-output: they can be used to control other DMX-equipment:
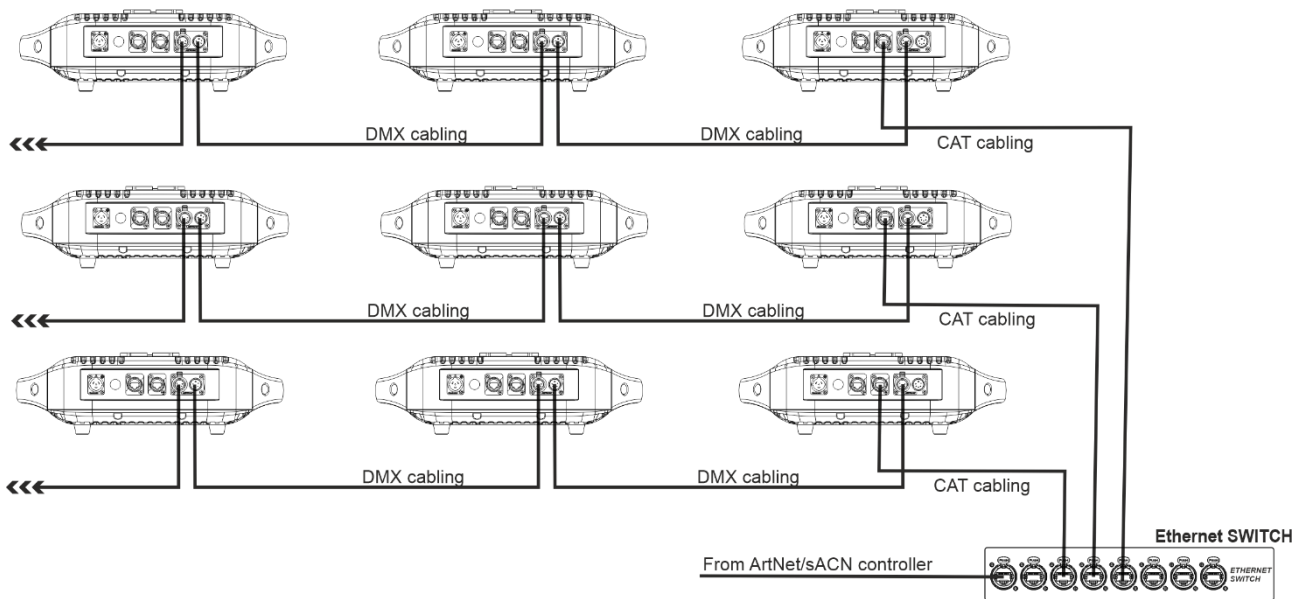
Electrical installation for two or more units in DMX-mode:
- The DMX-protocol is a widely used high speed signal to control intelligent light equipment. You need to "daisy chain" your DMX controller and all the connected units with a good quality balanced cable.
- Both XLR-3pin and XLR-5pin connectors 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.
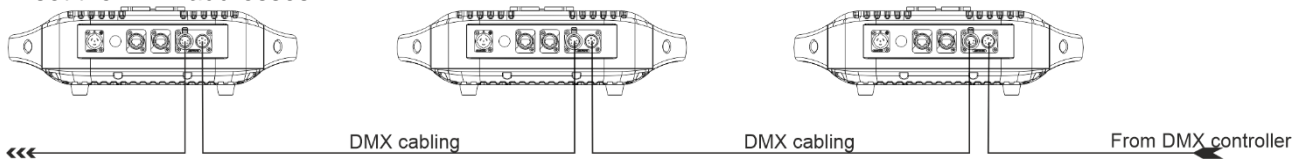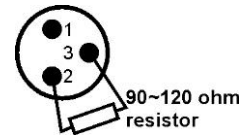
Wiring of the DMX connectors:

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.

SETTING MENU
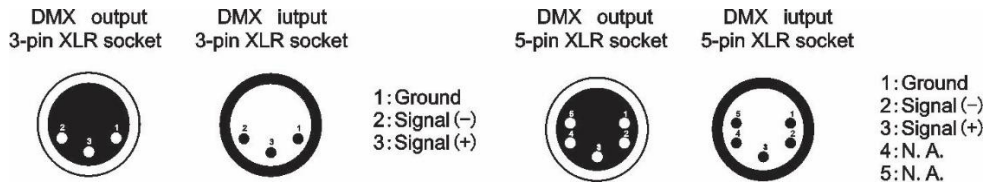Press SETTINGS on the display to open the setup menu. Use the UP/DOWN, MODE and ENTER buttons to navigate.

Level 0	Level 1	Level 2	Level 3
Address	001-512		
Person	Basic		
	Standard*		
	Extended		
Runmode	DMX512*		
	ArtNet		
	ArtNet To DMX		
	sACN		
	Auto		
	Custom1		
	Custom 2		
Option	Pan invert	Off*	
		On	
	Tilt invert	Off*	
		On	
	Perform	Studio	
		Power	
		Live*	
	Blackout	Off*	
		On	
	Dimmer	Dim4	
		Dim3	
		Dim2	
		Dim1	
		Off*	
	Led PWM	1200Hz*	
		2400Hz	
		4000Hz	
		6000Hz	
		25000Hz	
	DMX Error	Save*	

		Black	
		On	
	Display Time	30s*	
		1min	
		2min	
	Display Lock	Off	
		On*	
	Load Para	No	
		Yes	
		Recovery	
		Clean Edit1	
	Setting	Clean Edit2	
		WDMX Hide	No
			Yes
		Net switch	2.xxx.xxx.xxx
			10.xxx.xxx.xxx
	Network	Univers	0-255
		IP Mode	Default IP
			Custom IP
		Custom IP	xxx.xxx.xxx.xxx
	PT Encoder	Off	
		On*	
	WDMX Reset	No	
		Yes	
		Only XLRDMX	
		XLRDMX First	
	Signal	Only WDMX	
		WMDX First	
		WDMX to XLRDMX	
Edit	Edit1-2	Step 1-30	Pan
			Tilt
			...
		Pan	0-255
	Channel	Tilt	0-255
		...	0-255
	Debug	No	
Manual		Yes	
		All Reset	
		PT Reset	
	Reset	Color system	
		Gobo system	
		Other	
	Fixture hours		
	LED use hours		
	Temperature		
	Version		
Info	Network		
	RDM	UID	
		Label	
	System Error	...	
	Service	...	

*Note: menu items with * are the default values.*

Address
Used to set the DMX-starting address.
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select the **ADDRESS** option and hit the right button to select.
- Use the up/down buttons to select the correct DMX address
- Press the right button to confirm.

Person
Used to set the channel mode of the unit
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select the **PERSON** option and hit the right button to select.
- Use the up/down buttons to select the correct DMX address
  - o **Basic:** 22 Channels
  - o **Standard:** 26 Channels
  - o **Extended:** 29 Channels
- Press the right button to confirm.

Runmode
Used to set the channel mode of the unit
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select the **RUNMODE** option and hit the right button to select.
- Use the up/down buttons to select the correct DMX address
  - o **DMX512 : Fixture reacts to DMX**
  - o **ArtNet: Fixture reacts to ArtNet**
  - o **ArtNet to DMX: Fixture acts as a ArtNet node and will transform ArtNet to DMX on its output**
  - o **sACN: Fixture reacts to sACN**
  - o **AUTO : Fixture steps automatically through pre-programmed steps**
  - o **Custom1/Custom2 : Fixture steps automatically through user-programmed steps**
- Press the right button to confirm.

Option
Menu with functions related to the overall settings of the fixture

PAN INVERT
Used to invert the pan movement
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select **OPTION** and hit the right button to select.
- Press the up/down buttons to select the **PAN INVERT** option and hit the right button to select.
- Use the up/down buttons to select **OFF/ON**
- Press the right button to confirm.

TILT INVERT
Used to invert the tilt movement
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select **OPTION** and hit the right button to select
- Press the up/down buttons to select the **TILT INVERT** option and hit the right button to select.
- Use the up/down buttons to select **OFF/ON**
- Press the right button to confirm.

PERFORM
Used to select the cooling mode
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select **OPTION** and hit the right button to select
- Press the up/down buttons to select the **PERFORM** option and hit the right button to select.
- Use the up/down buttons to select the correct mode
  - o **STUDIO:** Silent mode
  - o **POWER:** Full power mode
  - o **LIVE:** Temperature controlled mode
- Press the Right button to confirm.

BLACKOUT
Used to select the move-in-dark
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select **OPTION** and hit the right button to select
- Press the up/down buttons to select the **BLACKOUT** option and hit the right button to select.
- Use the up/down buttons to select **ON/OFF**
- Press the right button to confirm.

DIMMER
Used to select the dimmer fade out speed
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select **OPTION** and hit the right button to select
- Press the up/down buttons to select the **DIMMER** option and hit the right button to select.
- Use the up/down buttons to select:
  - **DIM4:** 0.6s fade out
  - **DIM3:** 0.5s fade out
  - **DIM2:** 0.4s fade out
  - **DIM1:** 0.3s fade out
  - **OFF**: No fade time on Dimmer
- Press the right button to confirm.

LED PWM
Used to select the PWM frequency of the LED
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select **OPTION** and hit the right button to select
- Press the up/down buttons to select the **LED PWM** option and hit the right button to select.
- Use the up/down buttons to select the correct frequency
- Press the right button to confirm.

DMX ERROR
Used to select the behavior of the fixture when no DMX is received
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select **OPTION** and hit the right button to select
- Press the up/down buttons to select the **DMX ERROR** option and hit the right button to select.
- Use the up/down buttons to select the correct mode
  - **Freeze:** Fixture holds last received values
  - **Black:** Fixture turns the LED OFF and turns to a base position
- Press the Right button to confirm.

DISPLAY TIME
Used to select the ON time of the display
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select **OPTION** and hit the right button to select
- Press the up/down buttons to select the **DISPLAY TIME** option and hit the right button to select.
- Use the up/down buttons to select the desired setting
- Press the right button to confirm.

MENU LOCK
Used to lock the menu
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select **OPTION** and hit the right button to select
- Press the up/down buttons to select the **MENU LOCK** option and hit the right button to select.
- Use the up/down buttons to select **ON/OFF**
- Press the right button to confirm.

LOAD PARA
Used to share menu settings over DMX
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select **OPTION** and hit the right button to select
- Press the up/down buttons to select the **LOAD PARA** option and hit the right button to select.

- Use the up/down buttons to select
  - o **ON:** Download data off the DMX line
  - o **OFF:** Share data on the DMX line
- Press the right button to confirm.

SETTING
Used to create and restore settings
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select **OPTION** and hit the right button to select
- Press the up/down buttons to select the **SETTING** option and hit the right button to select.
- Use the up/down buttons to select
  - o **Recovery:** restore factory settings
  - o **Clean Edit1/2:** Clear user program 1 or 2
  - o **WDMX Hide:** (Un)Hide WDMX settings
- Press the right button to confirm.

PT ENCODER
Used to enable/disable the Pan/Tilt feedback sensor
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select **OPTION** and hit the right button to select
- Press the up/down buttons to select the **PT ENCODER** option and hit the right button to select.
- Use the up/down buttons to select **ON/OFF**
- Press the right button to confirm.

WDMX RESET
Used to Pair/Unpair the WDMX
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select **OPTION** and hit the right button to select
- Unhide the WDMX settings as explained in the SETTING option
- Press the up/down buttons to select the **WDMX RESET** option and hit the right button to select.
- Use the up/down buttons to select
  - o **YES:** Enables WMDX pairing mode
  - o **NO:** Reset current connection
- Press the right button to confirm.

SIGNAL
Used to enable WDMX operation
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select **OPTION** and hit the right button to select
- Unhide the WDMX settings as explained in the SETTING option
- Press the up/down buttons to select the **SIGNAL** option and hit the right button to select.
- Use the up/down buttons to select
  - o **ONLY XLRDMX:** WDMX disabled
  - o **XLRDMX First:** Can receive XLRDMX and WDMX but prioritize XLRDMX
  - o **ONLY WDMX:** Receive only WDMX
  - o **WDMX First:** Can receive XLRDMX and WDMX but prioritize WDMX
  - o **WDMX TO XLR DMX:** WDMX enabled and DMX output on XLR output
- Press the right button to confirm.

EDIT
Used to edit custom patterns for standalone use
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select the **EDIT** option and hit the right button to select.
- Use the up/down buttons to select the program to edit (**EDIT1** or **EDIT2**)
- Press the Right button to set the values for step 1
  - o **Pan**
  - o **Tilt**
  - o **…:** Set the desired value for the channel
  - o **Time:** duration of the step between 0-25s
  - o **Use:** Activate/Disable step
- Press the right button to confirm.

- Continue for step 2-30

MANUAL
Menu with functions related to the overall settings of the fixture
CHANNEL
Used to test individual channels of the fixture
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select the **MANUAL** option and hit the right button to select.
- Press the up/down buttons to select the **CHANNEL** option and hit the right button to select.
- Press the up/down buttons to select the desired channel and hit the right button to select the channel
- Press the Up/Down buttons to change the value of the channel.
- Press the Left button to exit the channel.

DEBUG HIDE
Factory testing mode. This disables all motors, motors can only be activated again with a reset.

RESET
Used to manually reset the fixture
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select the **MANUAL** option and hit the right button to select.
- Press the up/down buttons to select the **RESET** option and hit the right button to select.
- Use the up/down buttons to select
  - **ALL RESET:** Reset the entire fixture
  - **PT RESET:** Reset the pan/tilt motors
  - **OTHER RESET:** Reset the Zoom motor
- Press the right button to confirm.

INFO
Menu with Information about the fixture

FIXTURE HOURS
Displays the total active hours of the fixture

LED USE HOURS
Displays the total active hours of the LED

TEMPERATURE
Displays the temperature of the LED unit

VERSION
Displays the current fixture firmware version

Network
Displays the current networking information

RDM
Displays the RDM information of the fixture
RDM UID: 0x2122004C****   (**** = unique number)
RDM Label: BTI-BLIZZARD BSW2

SYSTEM ERROR
Displays possible system errors

SERVICE
Used to calibrate the base pan/tilt position
- Press the right button to open the menu. (Enter the password if prompted)
- Press the up/down buttons to select the **SERVICE** option and hit the right button to select.
- Enter the password (Up-Down-Up-Down)
- Use the up/down buttons to select the function to calibrate and hit the Right button to select
- Use the Up: Down buttons to edit the base value (-127 to +127) and hit the Right button to confirm

INSTALLING THE OPTIONAL BACK-UP BATTERY

Installation of optional modules must be performed by certified personnel.
For colored picture download the manual on www.briteq-lighting.com

INSTALLING THE BACK-UP BATTERY
The optional backup battery makes it possible to use the setup menu while it is not connected to the mains.

1. Loosen all the bottom Hex-screws

2. When the bottom is removed you see the empty battery slot.
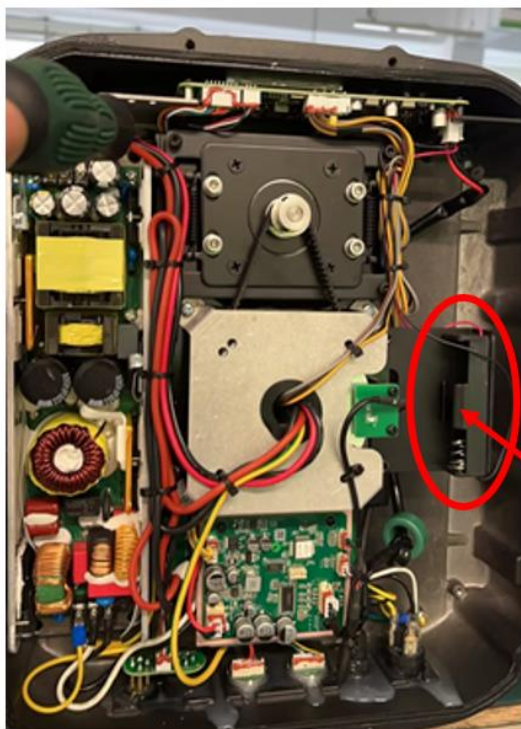
3. Insert the battery (**model: 18650 * 3,7V Li-ion**) in the battery slot.
   Pay attention to the correct direction and polarity.

4. Put the bottom plate back and fix screw the hex screws tightly.

DMX CHANNELS

The unit is equipped with 5 different DMX modes:
- **Basic:** 22 Channels
- **Standard:** 26 Channels
- **Extended:** 29 Channels

Reduced DMX Chart

Basic	Standard	Extended	Function
1	1	1	Pan
-	2	2	Pan fine
2	3	3	Tilt
-	4	4	Tilt fine
3	5	5	P/T speed
4	6	6	Cyan
5	7	7	Magenta
6	8	8	Yellow
7	9	9	Color macro
8	10	10	CMY speed
9	11	11	Color wheel
-	-	12	Colorwheel fine
10	12	13	Rotating gobos
11	13	14	Gobo rotation
-	14	15	Gobo rotation fine
12	15	16	Fixed gobo
13	16	17	Animation wheel
14	17	18	Animation Rotation
15	18	19	Prism
16	19	20	Frost
17	20	21	Zoom
-	-	22	Zoom fine
18	21	23	Focus
-	-	24	Focus fine
19	22	25	Auto focus
20	23	26	Dimmer
-	24	27	Dimmer fine
21	25	28	Strobe
22	26	29	Control

Full DMX Chart

Basic	Standard	Extended	Function	Value	
1	**1**	**1**	**Pan**	000-255	
-	**2**	**2**	**Pan fine**	000-255	
2	**3**	**3**	**Tilt**	000-255	
-	**4**	**4**	**Tilt fine**	000-255	
3	**5**	**5**	**P/T speed**	000-255	
4	**6**	**6**	**Cyan**	000-255	
5	**7**	**7**	**Magenta**	000-255	
6	**8**	**8**	**Yellow**	000-255	
7	**9**	**9**	**Color macro**	000-010	No function
				011-020	L106
				021-030	L194
				031-040	L019
				041-050	R08
				051-060	L213
				061-070	R80
				071-080	L202
				081-090	L328
				091-100	R3314
				101-110	L101
				111-120	L768
				121-128	No function
				129-147	Cyan 100% Magenta > Yellow 0%
				148-166	Cyan < Magenta 100% Yellow 0%
				167-185	Cyan 0% Magenta 100% Yellow >
				186-204	Cyan 0% Magenta < Yellow 100%
				205-223	Cyan > Magenta 0% Yellow 100%
				224-242	Cyan 100% Magenta 0% Yellow <
				243-255	Cyan 100% Magenta > Yellow 0%
8	**10**	**10**	**CMY speed**	000-255	
9	**11**	**11**	**Color wheel**	000-007	Open
				008-015	Color1
				016-023	Color2
				024-031	Color3
				032-039	Color4
				040-047	Color5
				048-055	Color6
				056-063	Color7
				064-191	Index
				192-222	Spin CW Fast-Slow
				223-224	Stop
				225-255	Spin CCW Slow-Fast
-	**-**	**12**	**Colorwheel fine**	000-255	
10	**12**	**13**	**Rotating gobos**	000-010	Open
				011-018	Gobo 1
				019-026	Gobo 2
				027-034	Gobo 3
				035-042	Gobo 4
				043-050	Gobo 5
				051-058	Gobo 6
				059-066	Gobo 7
				067-074	Gobo 1 Shake
				075-082	Gobo 2 Shake
				083-090	Gobo 3 Shake

				091-098	Gobo 4 Shake
				099-106	Gobo 5 Shake
				107-114	Gobo 6 Shake
				115-122	Gobo 7 Shake
				123-127	Open
				128-190	Spin CW Fast-Slow
				191-192	Stop
				193-255	Spin CCW Slow-Fast
11	**13**	**14**	**Gobo rotation**	000-120	Index
				121-125	Stop
				126-165	Rotation Shake Slow-Fast
				166-169	Stop
				170-210	Rotation CW Fast-Slow
				211-215	Stop
				216-255	Rotation CCW Slow-Fast
-	**14**	**15**	**Gobo rotation fine**	000-255	
12	**15**	**16**	**Fixed gobo**	000-010	Open
				011-018	Gobo 1
				019-026	Gobo 2
				027-034	Gobo 3
				035-042	Gobo 4
				043-050	Gobo 5
				051-058	Gobo 6
				059-066	Gobo 7
				067-074	Gobo 1 Shake
				075-082	Gobo 2 Shake
				083-090	Gobo 3 Shake
				091-098	Gobo 4 Shake
				099-106	Gobo 5 Shake
				107-114	Gobo 6 Shake
				115-122	Gobo 7 Shake
				123-127	Open
				128-190	Spin CW Fast-Slow
				191-192	Stop
				193-255	Spin CCW Slow-Fast
13	**16**	**17**	**Animation wheel**	000-255	Insert animation wheel
14	**17**	**18**	**Animation Rotation**	000-128	Index
				129-191	Rotation CW Slow-Fast
				192	No rotation
				193-255	Rotation CCW Slow-Fast
15	**18**	**19**	**Prism**	000-010	Open
				011-145	Index
				146-150	Stop
				151-200	Spin CW Fast-Slow
				201-205	Stop
				206-255	Spin CCW Slow-Fast
16	**19**	**20**	**Frost**	000-010	Open
				011-255	Frost
17	**20**	**21**	**Zoom**	000-255	
-	**-**	**22**	**Zoom fine**	000-255	
18	**21**	**23**	**Focus**	000-255	
-	**-**	**24**	**Focus fine**	000-255	
19	**22**	**25**	**Auto focus**	000-012	No function
				013-039	5 Meter
				040-066	7 Meter
				067-093	9 Meter

				094-120	11 Meter
				121-147	13 Meter
				148-174	15 Meter
				175-201	17 Meter
				202-228	19 Meter
				229-255	21 Meter
20	23	26	**Dimmer**	000-255	
-	24	27	**Dimmer fine**	000-255	
21	25	28	**Strobe**	000-009	No function
				010-099	Strobe Slow-Fast
				100-109	No Function
				110-179	Lightning strobe
				180-189	No function
				190-255	Random strobe
22	26	29	**Control**	000-010	No function
				011-020	BO on P/T activated
				021-030	BO on P/T deactivated
				031-040	Pan invert
				041-050	Tilt invert
				051-060	Pan/Tilt invert off
				061-070	Fan mode: Studio
				071-080	Fan mode: Power
				081-100	Fan mode Live
				101-110	Dim speed: Dim4
				111-120	Dim speed: Dim3
				121-130	Dim speed: Dim2
				131-140	Dim speed: Dim1
				141-150	Dim speed: Dim0
				151-160	PWM: 1200Hz
				161-170	PWM: 2400Hz
				171-180	PWM: 4000Hz
				181-190	PWM: 6000Hz
				191-200	PWM: 25000Hz
				201-210	Reset all
				211-220	Reset P/T
				221-230	Reset Color
				231-240	Reset Zoom/Focus
				241-255	Reset Gobo

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.

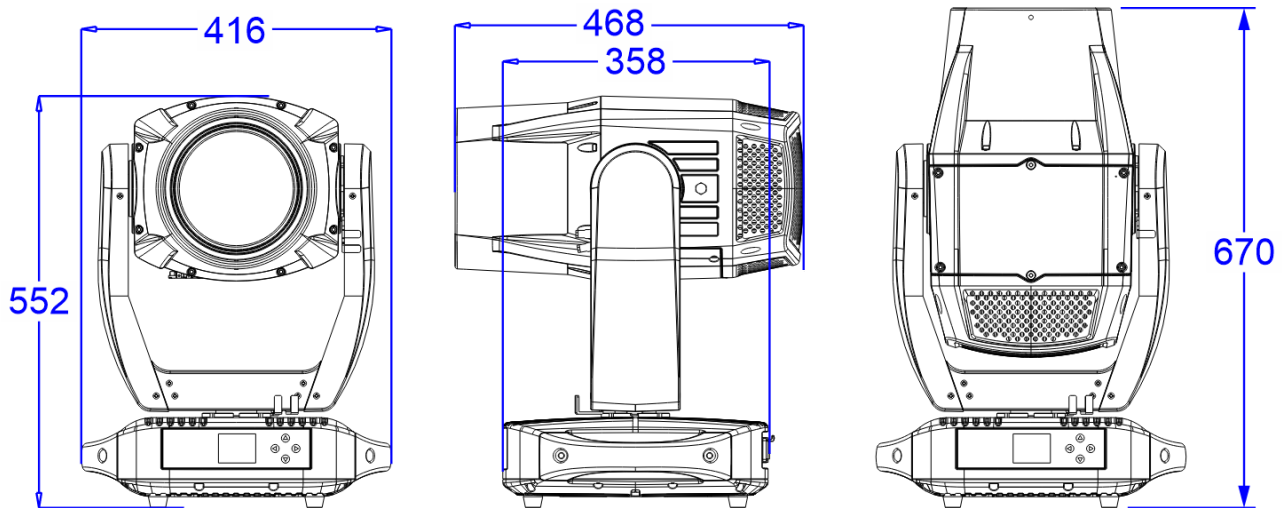**During inspection the following points should be checked:**

- 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.
- 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.
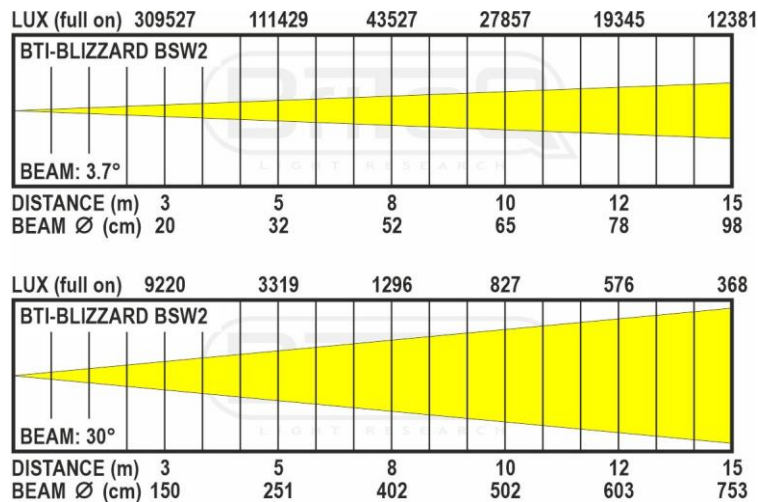- Clean the external optics at least once every 30 days.

SPECIFICATIONS

This device carries the prescribed CE marking. It was tested for this purpose in a specialized CE lab and fully complies with all currently valid European and national standards. The corresponding CE conformity declarations can be found on the product page of this product on our website.
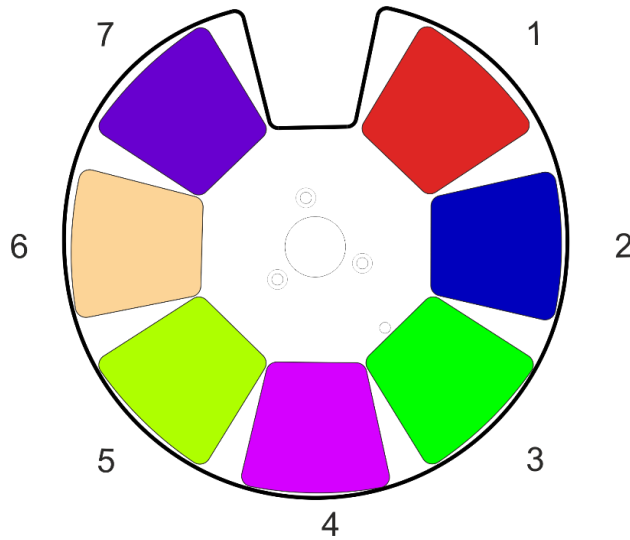
Mains Input:	AC 100~240V, 50/60Hz
Power consumption:	560Watt (max.)
IP-rating:	IP65
Operation Temperature:	-20°C → +45°C
Fuse:	6,3A / 250V slow.
Optional backup battery:	model 18650 * 3,7V Li-ion
Sound Control:	none
DMX connections:	3pin XLR IN/OUT, RDM compatible, (W-DMX optional)
Movement:	Pan: 540° Tilt: 210°
Beam angle:	3°→ 30°
DMX channels used:	22, 26 and 29 Channels
Lamp:	450W LED
Size:	416 x 358 x 670 mm
Weight:	34 kg

LUX CHART

LUX (full on)	309527	111429	43527	27857	19345	12381
BTI-BLIZZARD BSW2						
BEAM: 3.7°						
DISTANCE (m)	3	5	8	10	12	15
BEAM Ø (cm)	20	32	52	65	78	98

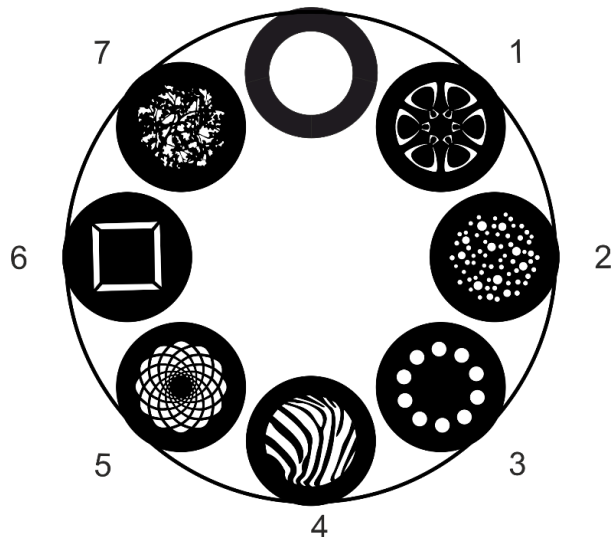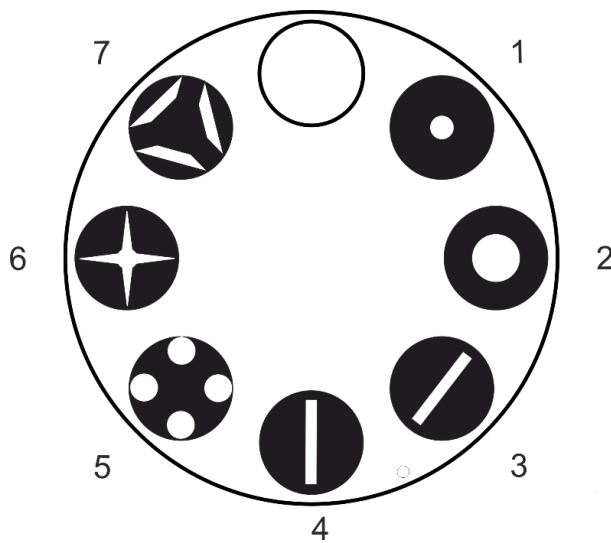| LUX (full on)	9220	3319	1296	827	576	368
BTI-BLIZZARD BSW2						
BEAM: 30°						
DISTANCE (m)	3	5	8	10	12	15
BEAM Ø (cm)	150	251	402	502	603	753

Color wheel

Rotating gobo wheel

Static gobo wheel

All the information is subject to change without prior notice
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