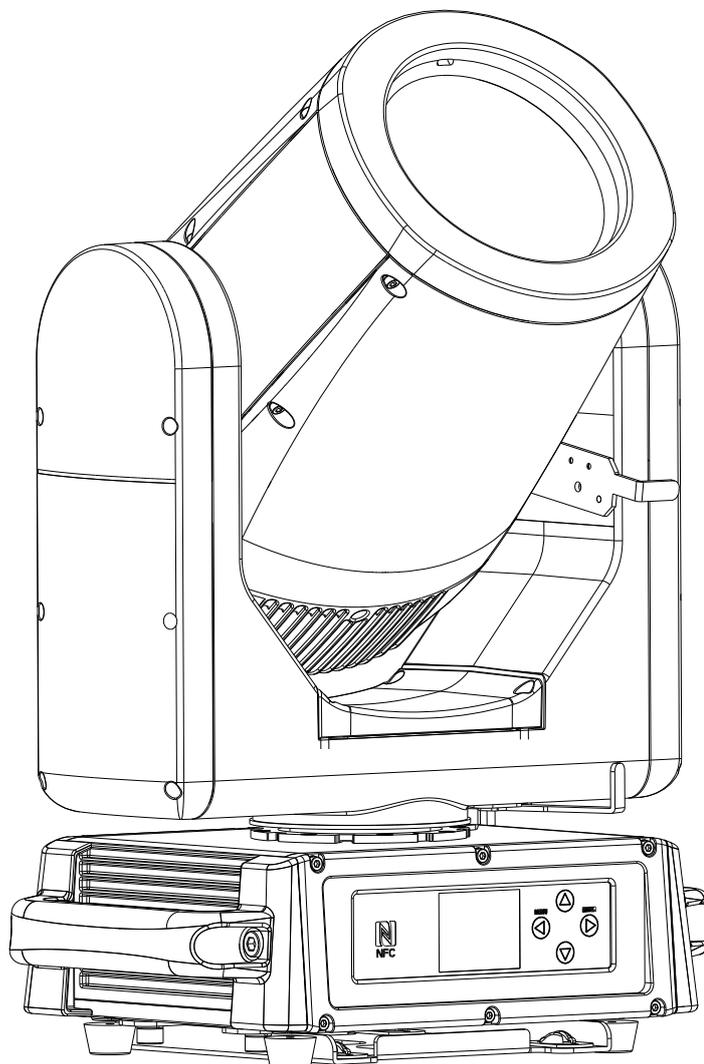


***BTI-BLIZZARD* LBEAM**



ENGLISH

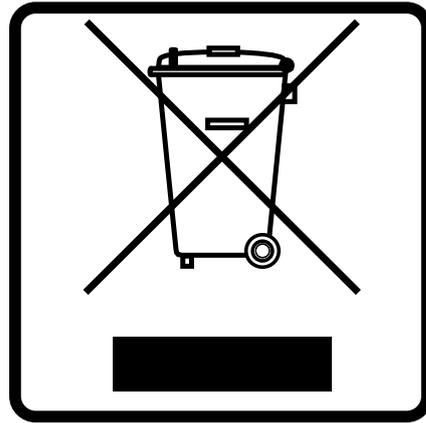
Operation Manual

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



Version: 1.0





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

- BTI-BLIZZARD LBEAM is a powerful compact BEAM moving head, based on a 100W white LEP LASER module.
- **IP65 protection and low noise operation:** perfect for both outdoor and indoor use!
- Narrow beam from 0.5° to 1.6°!
- Silent fan mode for theater applications.
- Fast 16bit pan/tilt movements with position correction and continuous pan movement.
- CMY color system, including several color macros and 19+1 fixed colors
- 12+1 replaceable rotating metal gobos with fine indexing.
- Combinable 5L and 24C facet prisms.
- Frost filter for a soft beam effect.
- Accurate strobe with built in random, pulse and burst effects.
- Smooth 24bit dimmer with fast and slow dimming mode.
- Uses 19, 23 or 25 DMX channels + RDM-functionality for easy remote setup.
- **Optional wireless DMX-receiver:** W-DMX / CRMX compatible. (order code: B05588)
- **NFC-function:** read error codes and other information, perfect for dry-hire companies! (Dedicated APP still under development)
- The matrix LCD-display assures easy navigation in the different setup menus
- 3pin & 5pin DMX in/outputs + PowerCON TRUE1 compatible in/outputs
- Equipped with omega brackets for fast installation.

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.

Check the contents:

Check that the carton contains the following items:

- BTI-BLIZZARD LBEAM
- PowerCON® TRUE-1 compatible mains cable
- 2 BriteQ omega brackets small
- 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 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: 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 5 meter

RISK GROUP 2
CAUTION:
Do not stare at operating lamp

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

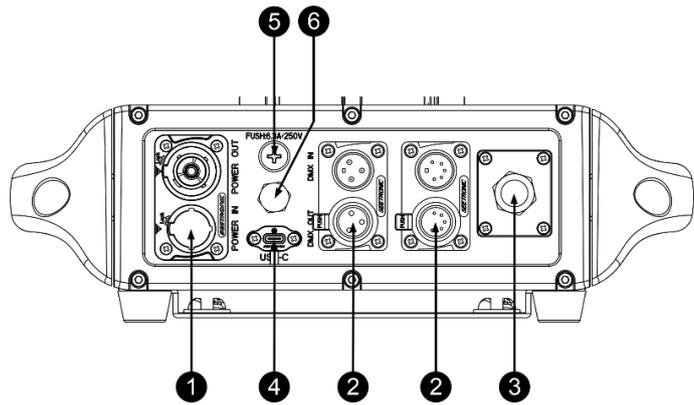
- To protect the environment, please try to recycle the packing material as much as possible.
- To avoid condensation forming inside, allow the unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condense sometimes prevents the unit from working at full performance or may even cause damage.
- 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 ambient temperature is 40°C. Don't use this unit at higher ambient temperatures.
- Make sure the area below the installation of the fixture is free from unwanted persons during rigging, de-rigging and servicing.
- Allow the device about 10 minutes to cool down before to start servicing.
- Always unplug the unit when it is not used for a longer time or before starting servicing.
- The electrical installation should be carried out by qualified personnel 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 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 grounded in order to comply with electrical 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. 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 packaging 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:

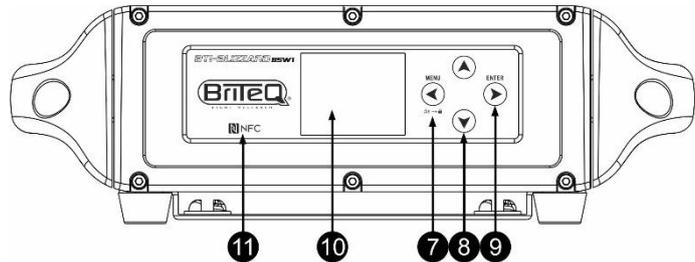
REAR PANEL:

1. Seetronic IP65 power input/output
2. 3 and 5-pin XLR input/output
3. Slot for optional WDMX module
It takes only 2 minutes and a small screw driver to install an optional W-DMX / CRMX compatible wireless DMX module.
Order code: B05588
4. USB-C connector for firmware updates
5. Fuse holder (20x5mm, T6,3A / 250V)
6. Moisture vent (do NOT remove!)



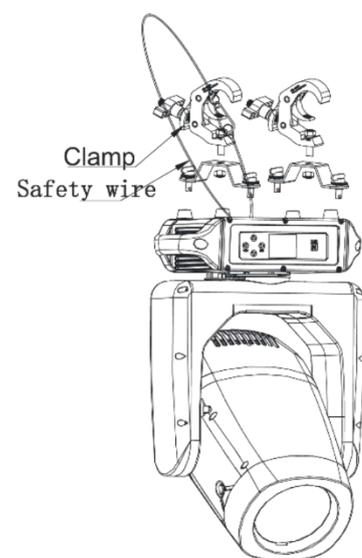
FRONT PANEL:

7. **MENU button:** press to go 1 level up in the menu tree.
Note: when the display is locked → press +/-5 seconds to unlock the display.
8. **▲/▼ buttons:** used to browse the menu and to increase/decrease values.
9. **ENTER button:** used to confirm an action.
10. **Display:** turns black after a while, press the MENU button to wake up again.
11. **NFC antenna:** used to get status and error information from the machine. Keep your smartphone in front of the antenna to get the information. (*Note: the special smartphone application is still under development*)



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 optional Truss hooks to the 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')

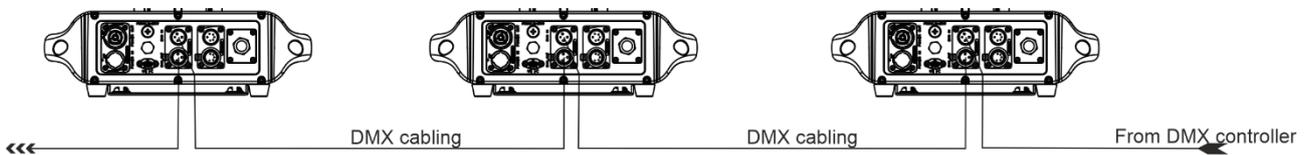
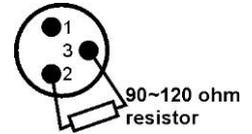


ELECTRICAL INSTALLATION

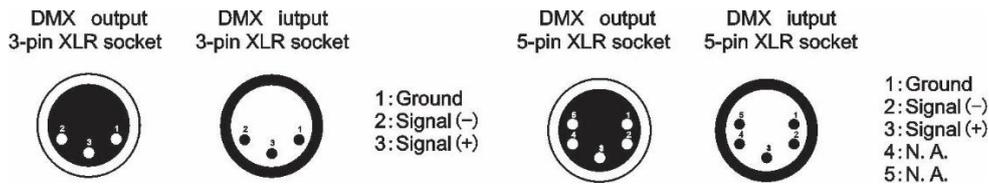
⚠ Important: The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.

Electrical installation for two or more units in 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 ▲/▼, MODE and ENTER buttons to navigate.

Level 0	Level 1	Level 2	Level 3	Level 4	Defaults	
ADDRESS	001 - 512				001	
PERSON	BASIC (19)				Standard	
	STANDARD (23)					
	EXTEND (25)					
RUNMODE	DMX512				DMX512	
	AUTO					
	CUSTOM1					
OPTION	PAN INVERT	OFF/ON			Off	
	TILT INVERT	OFF/ON			Off	
	PAN DEGREE	630/540			540	
	FAN MODE	STUDIO				Auto
		POWER				
		AUTO				
	BLACKOUT	OFF/ON				Off
DIMMER MODE	DIM4				Dim1	
	DIM3					
	DIM2					
	DIM1					
	OFF					

	LASER PWM	1200Hz			1200Hz	
		2400Hz				
		4000Hz				
		6000Hz				
		25000Hz				
	NO DMX MODE	FREEZE				Freeze
		BLACKOUT				
	DISPLAY TIME	On				30s
		30s				
		1min				
	DISPLAY LOCK	OFF				On
		ON				
	LOAD PARA	LOAD				
		SEND				
	SETTING	RECOVERY	****			****
CLEAN EDIT1		****			****	
CLEAN EDIT2		****			****	
WDMX HIDE		YES/NO			Yes	
PT SENSORS	OFF				On	
	ON	Default				
WDMX PAIRING	YES				Enables WDMX pairing	
	RESET				Reset current connection	
SIGNAL	ONLY XLRDMX				Only XLRDMX	
	XLRDMX FIRST					
	ONLY WDMX					
	WDMX FIRST					
	WDMX TO XLRDMX					
EDIT	EDIT 1-2	STEP(01-30)	PAN	0-255		
			TILT	0-255		
			PT SPEED	0-255		
			CMY_C	0-255		
			CMY_M	0-255		
			CMY_Y	0-255		
			COLOR	0-255		
			ROTA.GOBO	0-255		
			GOBO.ROTA	0-255		
			PRISM 1	0-255		
			PRISM 2	0-255		
			FROST/MULTI-COLOR	0-255		
			ZOOM	0-255		
			FOCUS	0-255		
			DIMMER	0-255		
STROBE	0-25					
TIME	0-255	0.1s steps				
USE	YES/NO					
MANUAL	CHANNEL	PAN	0-255			
		TILT	0-255			
		PT SPEED	0-255			
		CMY_C	0-255			
		CMY_M	0-255			
		CMY_Y	0-255			
		COLOR	0-255			
		ROTA.GOBO	0-255			
		GOBO.ROTA	0-255			
		PRISM 1	0-255			
		PRISM 2	0-255			
		FROST/MULTI-COLOR	0-255			
		ZOOM	0-255			
		FOCUS	0-255			
		DIMMER	0-255			
		STROBE	0-25			
	DEBUG	NO				
YES						

INFO	RESET	ALL RESET			
		PT RESET			
		COLOR SYSTEM			
		GOBO SYSTEM			
		OTHER			
	FIXTURE HOURS				
	LED USE HOURS				
	TEMPERATURE				
	FIRMWARE VER.				
	RDM	UID	0x2122005E****		
		LABEL	BTI-BLIZZARD LBEAM		
	SYSTEM ERROR	MEMORY IC			
		ANGLE SENSOR			
		PAN SENSOR			
		PAN ENCODER			
		PAN DRIVER IC			
		TILT SENSOR			
		TILT ENCODER			
		TILT DRIVER IC			
		TEMPERATURE			
		CMY C RESET			
		CMY M RESET			
		CMY Y RESET			
		COLOR RESET			
		GOBO RESET			
		RGOBO RESET			
		PRISM 1 RESET			
		PRISM 2 RESET			
		FROST/MULTI-COLOR RESET (FM RESET)			
	ZOOM RESET				
	FOCUS RESET				
	SERVICE		PAN	±127	
			TILT	±127	
		CMY-C	±127		
		CMY-M	±127		
		CMY-Y	±127		
		COLOR	±127		
		ROTA. GOBO	±127		
		GOBO.ROTA	±127		
		PRISM 1	±127		
		PRISM 2	±127		
		FROST/MULTI-COLOR	±127		
		ZOOM	±127		
	FOCUS	±127			

Address

Used to set the DMX-starting address.

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select the **ADDRESS** option and hit the ENTER button to select.
- Use the ▲/▼ buttons to select the correct DMX address
- Press the ENTER button to confirm.

Person

Used to set the channel mode of the unit

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select the **PERSON** option and hit the ENTER button to select.
- Use the ▲/▼ buttons to select the correct DMX address
 - **Basic:** 19 Channels
 - **Standard:** 23 Channels
 - **Extended:** 25 Channels
- Press the ENTER button to confirm.

Runmode**Used to set the channel mode of the unit**

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select the **RUNMODE** option and hit the ENTER button to select.
- Use the ▲/▼ buttons to select the correct DMX address
 - **DMX512 : Fixture reacts to DMX**
 - **AUTO : Fixture steps automatically through pre-programmed steps**
 - **Custom1/Custom2 : Fixture steps automatically through user-programmed steps**
- Press the ENTER 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 ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select **OPTION** and hit the ENTER button to select.
- Press the ▲/▼ buttons to select the **PAN INVERT** option and hit the ENTER button to select.
- Use the ▲/▼ buttons to select **OFF/ON**
- Press the ENTER button to confirm.

TILT INVERT**Used to invert the tilt movement**

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select **OPTION** and hit the ENTER button to select
- Press the ▲/▼ buttons to select the **TILT INVERT** option and hit the ENTER button to select.
- Use the ▲/▼ buttons to select **OFF/ON**
- Press the ENTER button to confirm.

PAN DEGREE**Used to select the pan range**

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select **OPTION** and hit the ENTER button to select
- Press the ▲/▼ buttons to select the **PAN DEGREE** option and hit the ENTER button to select.
- Use the ▲/▼ buttons to select **630/540**
- Press the ENTER button to confirm.

FANMODE**Used to select the cooling mode**

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select **OPTION** and hit the ENTER button to select
- Press the ▲/▼ buttons to select the **FANMODE** option and hit the ENTER button to select.
- Use the ▲/▼ buttons to select the correct mode
 - **STUDIO:** Silent mode
 - **POWER:** Full power mode
 - **AUTO:** Temperature controlled mode
- Press the ENTER button to confirm.

BLACKOUT**Used to select the move-in-dark**

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select **OPTION** and hit the ENTER button to select
- Press the ▲/▼ buttons to select the **BLACKOUT** option and hit the ENTER button to select.
- Use the ▲/▼ buttons to select **ON/OFF**
- Press the ENTER button to confirm.

DIMMER MODE**Used to select the dimmer fade out speed**

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select **OPTION** and hit the ENTER button to select

- Press the ▲/▼ buttons to select the **DIMMER** option and hit the ENTER button to select.
- Use the ▲/▼ 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 ENTER button to confirm.

LASER PWM

Used to select the PWM frequency of the LED

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select **OPTION** and hit the ENTER button to select
- Press the ▲/▼ buttons to select the **LASER PWM** option and hit the ENTER button to select.
- Use the ▲/▼ buttons to select the correct frequency
- Press the ENTER button to confirm.

NO DMX MODE

Used to select the behavior of the fixture when no DMX is received

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select **OPTION** and hit the ENTER button to select
- Press the ▲/▼ buttons to select the **NO DMX MODE** option and hit the ENTER button to select.
- Use the ▲/▼ 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 ENTER button to confirm.

DISPLAY TIME

Used to select the ON time of the display

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select **OPTION** and hit the ENTER button to select
- Press the ▲/▼ buttons to select the **DISPLAY TIME** option and hit the ENTER button to select.
- Use the ▲/▼ buttons to select the desired setting
- Press the ENTER button to confirm.

DISPLAY LOCK

Used to lock the menu

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select **OPTION** and hit the ENTER button to select
- Press the ▲/▼ buttons to select the **MENU LOCK** option and hit the ENTER button to select.
- Use the ▲/▼ buttons to select **ON/OFF**
- Press the ENTER button to confirm.

LOAD PARA

Used to share menu settings over DMX

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select **OPTION** and hit the ENTER button to select
- Press the ▲/▼ buttons to select the **LOAD PARA** option and hit the ENTER button to select.
- Use the ▲/▼ buttons to select
 - **ON**: Download data off the DMX line
 - **OFF**: Share data on the DMX line
- Press the ENTER button to confirm.

SETTING

Used to restore settings

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select **OPTION** and hit the ENTER button to select
- Press the ▲/▼ buttons to select the **SETTING** option and hit the ENTER button to select.
- Use the ▲/▼ buttons to select
 - **Recovery**: restore factory settings

- **Clean Edit1/2:** Clear user program 1 or 2
- **WDMX Hide:** (Un)Hide WDMX settings
- Press the ENTER button to confirm.

PT SENSORS

Used to enable/disable the Pan/Tilt feedback sensor

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select **OPTION** and hit the ENTER button to select
- Press the ▲/▼ buttons to select the **PT SENSORS** option and hit the ENTER button to select.
- Use the ▲/▼ buttons to select **ON/OFF**
- Press the ENTER button to confirm.

WDMX PAIRING

Used to Pair/Unpair the WDMX

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select **OPTION** and hit the ENTER button to select
- Unhide the WDMX settings as explained in the option
- Press the ▲/▼ buttons to select the **WDMX PAIRING** option and hit the ENTER button to select.
- Use the ▲/▼ buttons to select
 - **YES:** Enables WMDX pairing mode
 - **RESET:** Reset current connection
- Press the ENTER button to confirm.

SIGNAL

Used to enable WDMX operation

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

EDIT

Used to edit custom patterns for standalone use

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select the **EDIT** option and hit the ENTER button to select.
- Use the ▲/▼ buttons to select the program to edit (**EDIT1** or **EDIT2**)
- Press the ENTER button to set the values for step 1
 - **Pan**
 - **Tilt**
 - **...:** Set the desired value for the channel
 - **Time:** duration of the step in steps of 0.1s
 - **Use:** Activate/Disable step
- Press the ENTER 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 ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select the **MANUAL** option and hit the ENTER button to select.
- Press the ▲/▼ buttons to select the **CHANNEL** option and hit the ENTER button to select.
- Press the ▲/▼ buttons to select the desired channel and hit the ENTER button to select the channel
- Press the ▲/▼ buttons to change the value of the channel.

- Press the Left button to exit the channel.

DEBUG

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

INFO

Menu with Information about the fixture

FIXTURE HOURS

Displays the total active hours of the fixture

LASER 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

RDM

Displays the RDM information of the fixture

RDM UID: 0x2122005E**** (**** = unique number)
RDM Label: BTI-BLIZZARD LBEAM

SYSTEM ERROR

Displays possible system errors

SERVICE

Used to calibrate the base pan/tilt position

- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select the **INFO** option and hit the ENTER button to select.
- Press the ▲/▼ buttons to select the **SERVICE** option and hit the ENTER button to select.
- Enter the password (Up-Down-Up-Down)
- Use the ▲/▼ buttons to select the function to calibrate and hit the ENTER button to select
- Use the Up: Down buttons to edit the base value (-127 to +127) and hit the ENTER button to confirm

UPDATE SOFTWARE

Menu for firmware updates via USB-C

- Prepare a USB-C memory stick: format the drive in your PC using the FAT32 system.
- The firmware file(s) always end with “.nyj”: put the(se) file(s) in the root of the USB-C memory stick.
- Insert the USB-C drive into the USB-C port on the back of the projector base.
- Press the ENTER button to open the menu. (Enter the password if prompted)
- Press the ▲/▼ buttons to select the **UPDATE SOFTWARE** option and hit the ENTER button to select.
- Press the ENTER button to start the software update.

Note1: the names of the files on the USB-C memory stick should not have more than 8 characters!

Note2: use a small USB to USB-C conversion adapter or cable if you have a normal USB memory stick.

INSTALLING THE OPTIONAL BACK-UP BATTERY

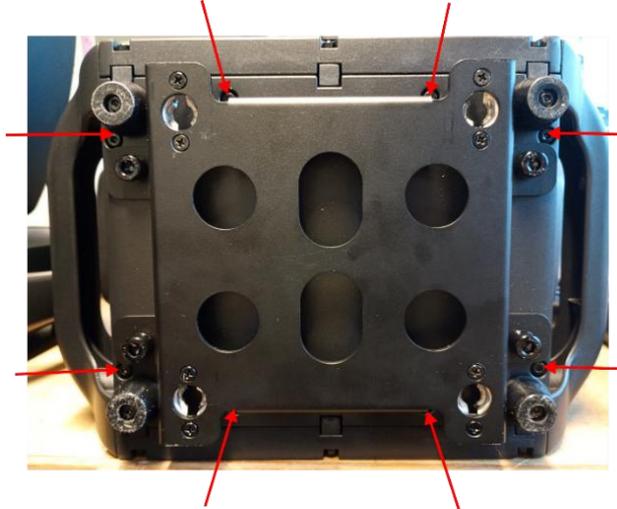
Installation of optional modules must be performed by certified personnel.

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 the 8 marked bottom Hex-screws



2. When the bottom is removed you see the empty battery slot at the display side



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 3 different DMX modes:

- **Basic:** 19 Channels
- **Standard:** 23 Channels
- **Extended:** 25 Channels

Reduced DMX Chart

BASIC	STANDARD	EXTEND	Function
1	1	1	Pan
-	2	2	Pan_Fine
2	3	3	Tilt
-	4	4	Tilt_Fine
3	5	5	PT Speed
4	6	6	Pan Spin
5	7	7	Cyan
6	8	8	Magenta
7	9	9	Yellow
8	10	10	Color preset
9	11	11	CMY Speed
10	12	12	Color Wheel
-	-	13	Color wheel fine
11	13	14	Rotating gobo
12	14	15	Gobo rotation
-	15	16	Gobo rotation_fine
13	16	17	Prism 1
14	17	18	Prism 2
15	18	19	Effect wheel
16	19	20	Focus
-	-	21	Focus_fine
17	20	22	Dimmer
-	21	23	Dimmer_fine
18	22	24	Strobe
19	23	25	Control

Full DMX Chart

BASIC	STANDARD	EXTEND	Function	Value	Information	Defaults
1	1	1	Pan	000-255	Pan 0-540°	128/3276
-	2	2	Pan_Fine	000-255		7
2	3	3	Tilt	000-255	Tilt 0-270°	128/3276
-	4	4	Tilt_Fine	000-255		7
3	5	5	PT Speed	000-255	Speed (fast-slow)	0
4	6	6	Pan Spin	0-127	No function	0
				128-189	CW spin (fast-slow)	
				190-193	Stop	
				194-255	CCW spin (slow-fast)	
5	7	7	Cyan	000-255		0
6	8	8	Magenta	000-255		0
7	9	9	Yellow	000-255		0
8	10	10	Color preset	0-10	No Function	0
				11-20	L106	
				21-30	L194	
				31-40	L019	
				41-50	R08	
				51-60	L213	
				61-70	R80	
				71-80	L202	
				81-90	L328	
				91-100	R3314	
101-110	L101					
111-120	L768					

				121-128	No Function	
				129-147	Cyan 100% / Magenta up / Yellow 0%	
				148-166	Cyan down / Magenta 100% / Yellow 0%	
				167-185	Cyan 0% / Magenta 100% / Yellow up	
				186-204	Cyan 0% / Magenta down / Yellow 100%	
				205-223	Cyan up / Magenta 0% / Yellow 100%	
				224-242	Cyan 100% /Magenta 0%/Yellow down	
				243-255	Cyan 100%/Magenta up/Yellow 0%	
9	11	11	CMY Speed	000-255	Speed (fast-slow)	0
10	12	12	Color Wheel	000-010	Color 0 (WHITE)	0
				011-013	Color 1 (RED)	
				014-016	Color 2 (Sky Blue)	
				017-019	Color 3 (Magenta)	
				020-022	Color 4 (GREEN)	
				023-025	Color 5 (Spring Yellow)	
				026-028	Color 6 (Light Blue)	
				029-031	Color 7 (Light Rose)	
				032-034	Color 8 (Egg Yolk Yellow)	
				035-037	Color 9 (Dark Lavender)	
				038-040	Color 10 (Congo Blue)	
				041-043	Color 11 (Dark Amber)	
				044-046	Color 12 (Half Plus Green)	
				047-049	Color 13 (CTB)	
				050-052	Color 14 (CTO 3200K)	
				053-055	Color 15 (Forest Green)	
				056-058	Color 16 (Bright Red)	
				059-061	Color 17 (Orange)	
				062-064	Color 18 (Lime Green)	
				065-067	Color 19 (BLUE)	
				068-070	Split Color 0+1	
				071-073	Split Color 1+2	
				074-076	Split Color 2+3	
				077-079	Split Color 3+4	
				080-082	Split Color 4+5	
				083-085	Split Color 5+6	
				086-088	Split Color 6+7	
				089-091	Split Color 7+8	
				092-094	Split Color 8+9	
				095-097	Split Color 9+10	
098-100	Split Color 10+11					
101-103	Split Color 11+12					
104-106	Split Color 12+13					
107-109	Split Color 13+14					
110-112	Split Color 14+15					
113-115	Split Color 15+16					
116-118	Split Color 16+17					
119-121	Split Color 17+18					
122-124	Split Color 18+19					
125-183	Index					
184-218	CW spin (fast-slow)					
219-220	Stop					
221-255	CCW spin (slow-fast)					
-	-	13	Color wheel fine	000-255		0
11	13	14	Rotating gobo	000-010	Open	0
				011-013	Gobo 1	
				014-016	Gobo 2	
				017-019	Gobo 3	
				020-022	Gobo 4	
				023-025	Gobo 5	
				026-028	Gobo 6	
				029-031	Gobo 7	
				032-034	Gobo 8	
				035-037	Gobo 9	
038-040	Gobo 10					

				041-043	Gobo 11	
				044-046	Gobo 12	
				047-052	Shake gobo 1	
				053-058	Shake gobo 2	
				059-064	Shake gobo 3	
				065-070	Shake gobo 4	
				071-076	Shake gobo 5	
				077-082	Shake gobo 6	
				083-088	Shake gobo 7	
				089-094	Shake gobo 8	
				095-100	Shake gobo 9	
				101-106	Shake gobo 10	
				107-112	Shake gobo 11	
				113-118	Shake gobo 12	
				119-127	Open	
				128-190	Spin CW (fast-slow	
				191-192	Stop	
				193-255	Spin CCW (fast-slow)	
12	14	15	Gobo rotation	000-120	Index (0-360°)	
				121-125	Stop	
				126-165	Rotation Shake (fast-slow)	
				166-170	Stop	0
				171-210	CW rotation (fast-slow)	
				211-215	Stop	
				216-255	CCW rotation (slow-fast)	
-	15	16	Gobo rotation_fine	000-255		0
13	16	17	Prism 1	000-010	Open	
				011-145	Index	
				146-150	stop	0
				151-200	CW rotation (fast-slow)	
				201-205	Stop	
				206-255	CCW rotation (slow-fast)	
14	17	18	Prism 2	000-010	Open	
				011-145	Index	
				146-150	stop	0
				151-200	CW rotation (fast-slow)	
				201-205	Stop	
				206-255	CCW rotation (slow-fast)	
15	18	19	Effect wheel	000-063	Open	
				064-127	Frost	0
				128-255	Multi-color	
16	19	20	Focus	000-255		128/3276
-	-	21	Focus_fine	000-255		7
17	20	22	Dimmer	000-255		0
-	21	23	Dimmer_fine	000-255		
18	22	24	Strobe	000-004	Open	
				005-009	Closed	
				010-099	Strobe	
				100-109	Open	0
				110-179	Lightning strobe	
				180-189	Open	
				190-255	Random strobe	
19	23	25	Control	000-010	No function	
				011-020	Blackout on P/T enabled (hold for 3s)	
				021-030	Blackout on P/T Disabled	
				031-040	Pan invert (hold for 3s)	
				041-050	Tilt invert (hold for 3s)	
				051-060	P/t invert off (hold for 3s)	
				061-070	Fan mode: Studio (hold for 3s)	
				071-080	Fan mode: Power (hold for 3s)	
				081-100	Fan mode: Live (hold for 3s)	
				101-110	DIM4 (hold for 3s)	
				111-120	DIM3 (hold for 3s)	
				121-130	DIM2 (hold for 3s)	
				131-140	DIM1 (hold for 3s)	

				141-150	DIM0 (hold for 3s)
				151-160	1200Hz (hold for 3s)
				161-170	2400Hz (hold for 3s)
				171-180	4000Hz (hold for 3s)
				181-190	6000Hz (hold for 3s)
				191-200	25000Hz (hold for 3s)
				201-210	Reset all (hold for 3s)
				211-220	P/T reset (hold for 3s)
				221-230	Color rest (hold for 3s)
				231-240	Zoom reset (hold for 3s)
				241-250	Gobo reset (hold for 3s)
				251-255	No function

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

ENGLISH

BRITEQ hereby declares that the equipment described in this manual complies with Directives 2014/35/EU (LVD) and 2014/30/EU (EMC). The full text of the EU Declaration of Conformity, as well as the latest version of the manual and technical specifications, are available at the following internet address (under Manual and downloads): <https://briteq-lighting.com/bti-blizzard-lbeam>

NEDERLANDS

Hierbij verklaart BRITEQ dat de apparatuur beschreven in deze handleiding voldoet aan de richtlijnen 2014/35/EU (LVD) en 2014/30/EU (EMC). De volledige tekst van de EU-conformiteitsverklaring, alsook de laatste versie van de handleiding en technische specificaties zijn beschikbaar op het volgende internetadres (onder Handleiding en downloads): <https://briteq-lighting.com/nl/bti-blizzard-lbeam>

FRANCAIS

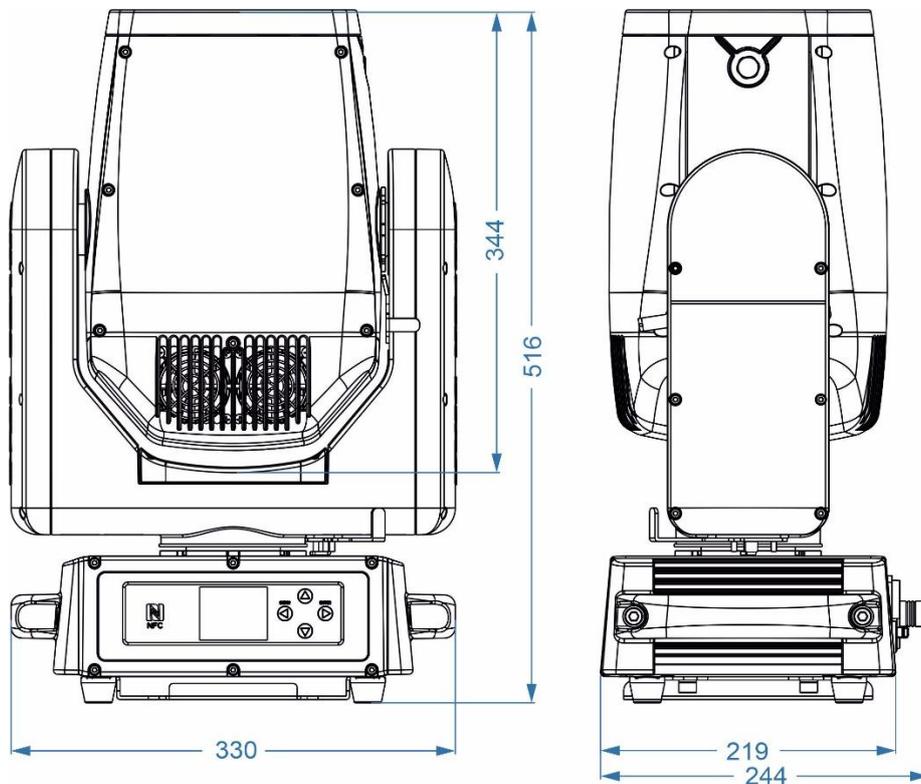
BRITEQ déclare par la présente que l'équipement décrit dans ce manuel est conforme à la 2014/35/EU (LVD) et 2014/30/EU (EMC). Le texte complet de la déclaration de conformité UE, ainsi que la dernière version du manuel et les spécifications techniques sont disponibles à l'adresse Internet suivante (sous Manuel et téléchargements) : <https://briteq-lighting.com/fr/bti-blizzard-lbeam>

DEUTSCH

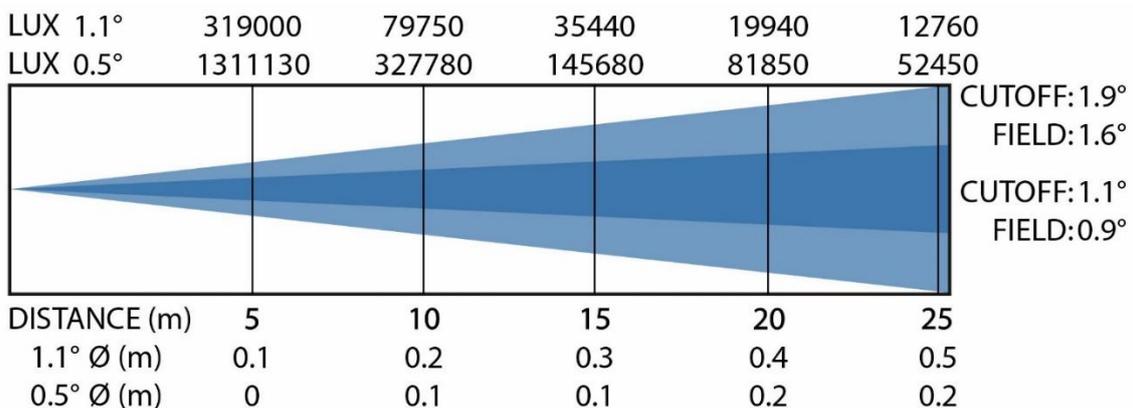
Hiermit erklärt BRITEQ, dass die in dieser Anleitung beschriebene Ausrüstung den Richtlinien 2014/35/EU (LVD) und 2014/30/EU (EMC) entspricht. Der vollständige Text der EU-Konformitätserklärung sowie die neuesten Versionen der Anleitung und der technischen Spezifikationen sind unter folgender Internetadresse verfügbar (unter Anleitung und Downloads): <https://briteq-lighting.com/de/bti-blizzard-lbeam>

Mains Input: AC 100~240V, 50/60Hz
Power consumption: 150 Watt (max.)
Power factor: 0.9
Daisy chaining: 18pcs (12A @ 240Vac)
IP-rating: IP65 - outdoor
Operation Temperature: -20°C → +45°C
Fuse: 4A / 250V slow.
Optional backup battery: model 18650 * 3,7V Li-ion
Sound Control: none
DMX connections: 3+5pin XLR IN/OUT, RDM compatible, (W-DMX optional)
Movement: Pan: 540° Tilt: 210°
Beam angle: 0.5° → 1.6°
DMX channels used: 19, 23 and 25 Channels
Lamp: 100W Laser (LEP)
Size: See picture below
Weight: 19 kg

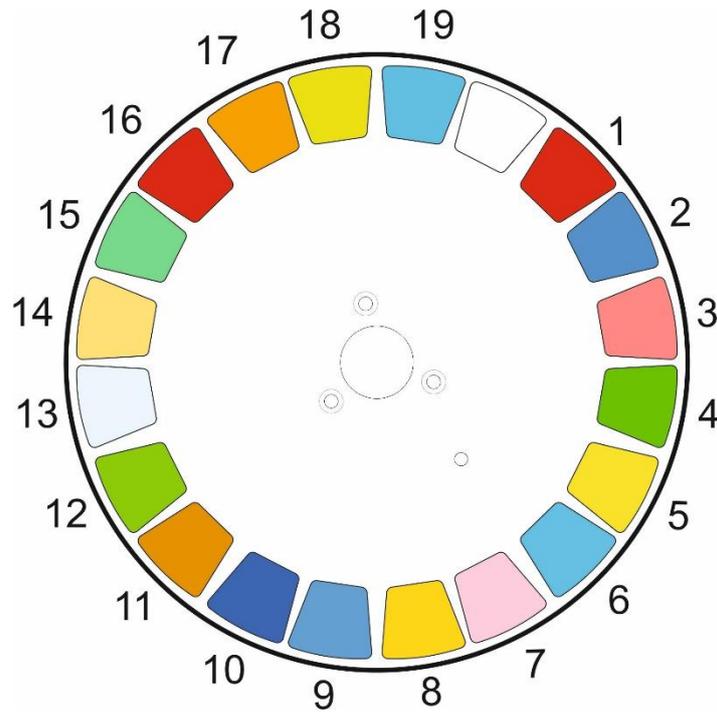
DIMENSIONS



LUX CHART

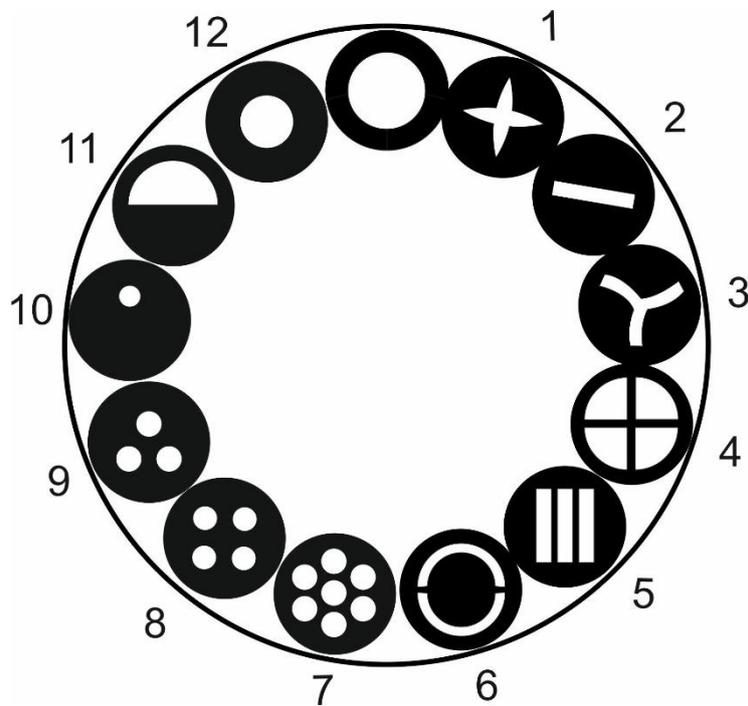


Color wheel



Rotating gobo wheel

- Outer diameter = 11mm
- Max. image diameter = 4.4mm



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



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