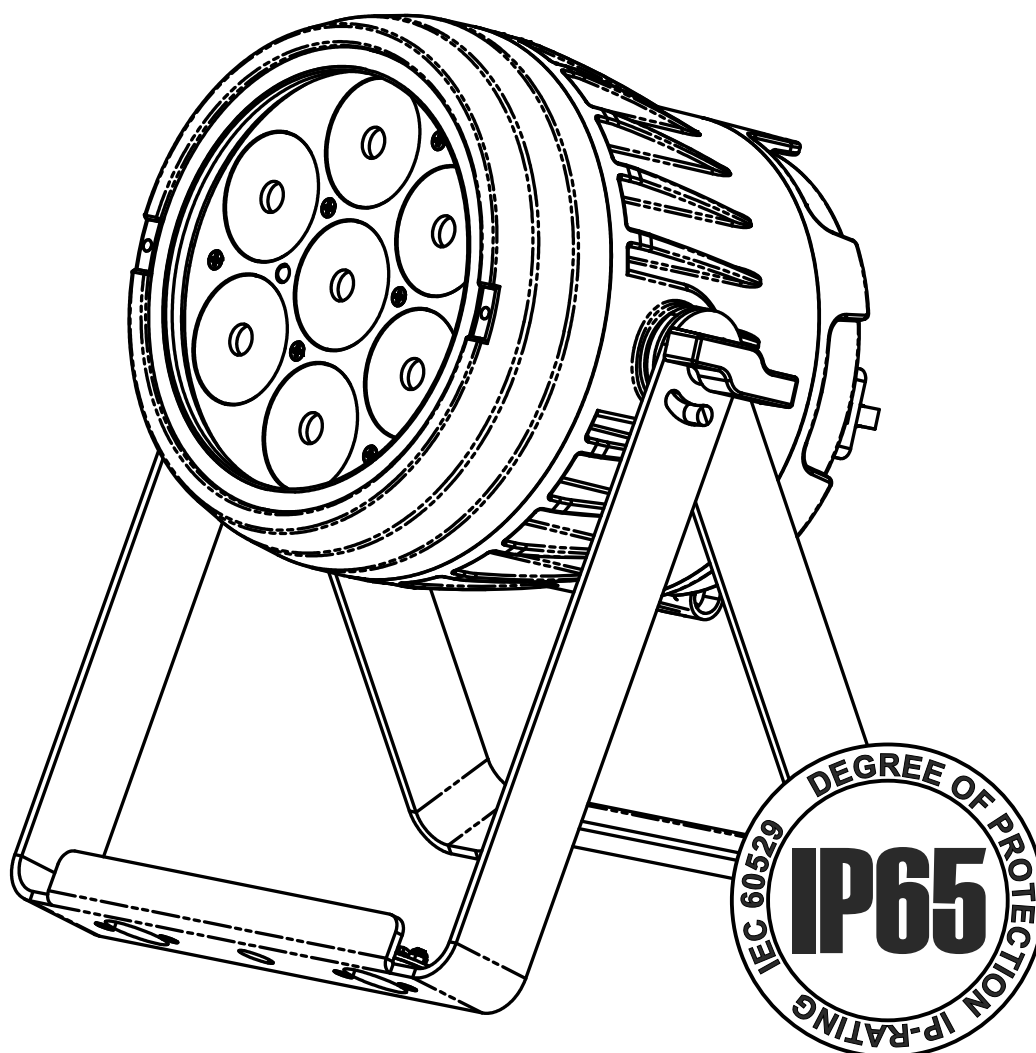


# **BTI-AKKUBEAMER**



## **ENGLISH**

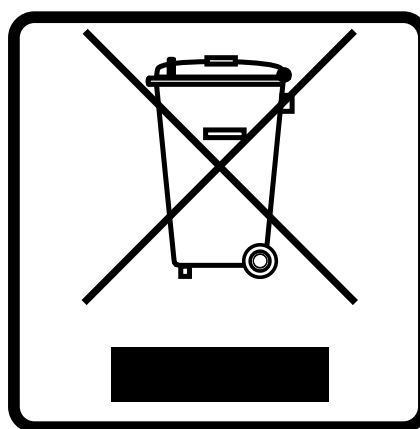
### **Operation Manual**

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

- This compact, battery operated outdoor IP65-projector is equipped with 7pcs 10W RGBL LEDs.
- A real workhorse that can be used for different applications:
  - Battery uplighter: thanks to the double brackets, batteries, and built-in wireless DMX
  - Compact LED-par: the bracket can be equipped with optional truss clamps and/or omega brackets.
- The standard 14° beam (2420lux @ 5m) can be changed using optional filters.
- The **wireless transceiver** (transmitter + receiver) is 100% compatible with the **W-DMX G4S protocol**.
- Very smooth RGBL color changes.
- The 7800 mAh Li-ion batteries guarantee +/-10hrs use in fading mode!
- The internal battery charger charges the battery while the projector is working on mains power.
- Different working modes for maximum flexibility:
  - **Standalone:** custom colors, color + CCT presets or automatic color changes
  - **Master/slave mode:** the master controls the slaves wirelessly or via XLR cabling, creating wonderful light shows.
  - **DMX-controlled:** wired and wireless. (4 modes: 3ch HSV, 4ch RGBL, 4ch LEDCON02 and 8ch STAGE for extended control)
  - **IR remote control:** simple control using a cheap (optional) remote, even in master/slave mode.
- The graphic OLED display shows a lot of important information, such as the remaining time of the battery. Combined with the touch keys, it also provides smooth setup menu operation.
- Completely silent "passive" cooling (NO cooling fans!)
- Seetronic PowerCON TRUE1 compatible mains in- and output for easy daisy chaining.
- The standard weatherproof 5-pin XLR in- and output connectors can be easily converted in 3-pin XLR with the optional conversion kit "BT-XLR5TO3 KIT" (order code: B05517).
- Can be secured with standard laptop "Anti-theft Cable Lock" (available from different brands)
- An optional 120x60cm flight case is available in which up to 8 projectors can be recharged.

## 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 packing contains the following items:

- Operating instructions
- BTI-AKKUBEAMER
- Diffuser filter
- Mains cable.

## 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 1 meters

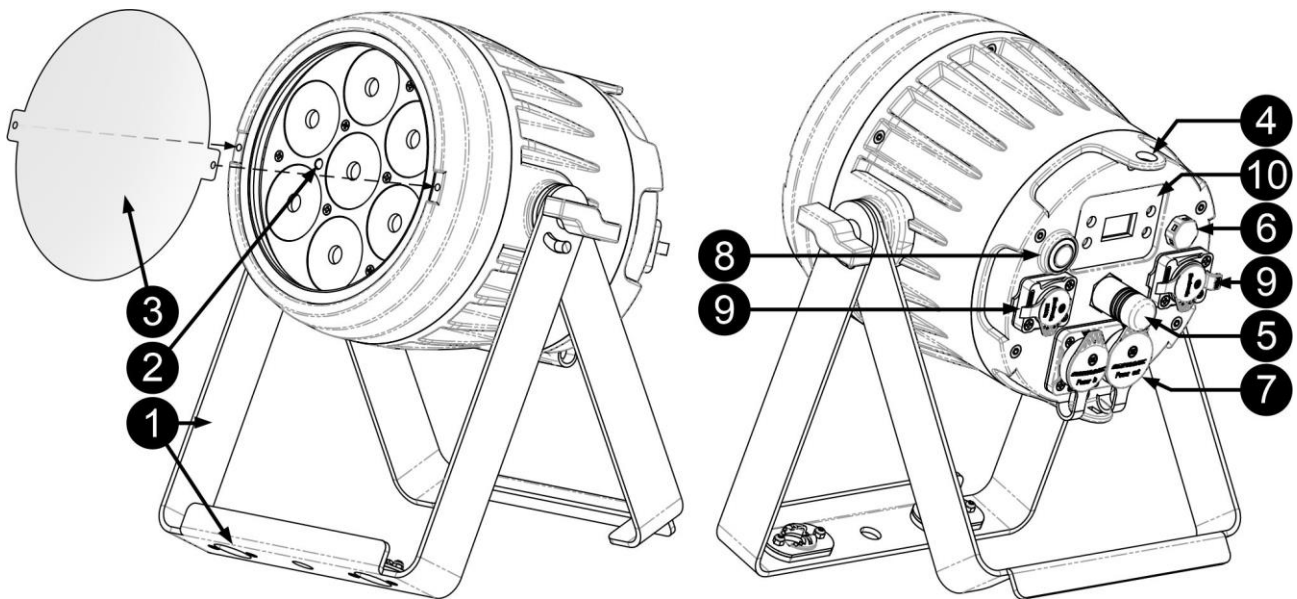
**RISK GROUP 2**  
**CAUTION:**  
Do not stare at operating lamp

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

- To protect the environment, please try to recycle the packing material as much as possible.
- 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.
- 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 safe ambient temperature is 40°C. Don't use this unit at higher ambient temperatures.
- 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 to start servicing.
- Always unplug the unit when it is not used for a longer time or before to 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 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, it's 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. 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:

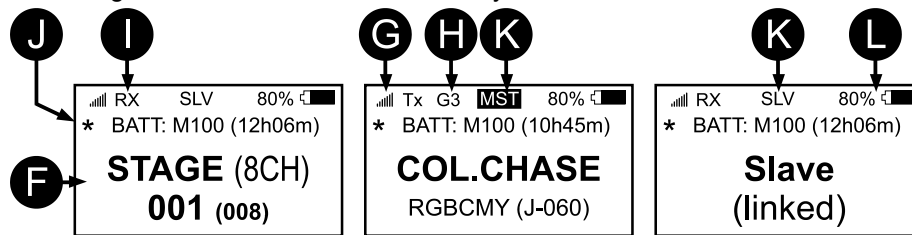


1. **DOUBLE HANGING BRACKET:** with solid knob to secure projector in any position. Can be used with traditional M10/M12 hanging clamps or quick release omega brackets.
2. **IR-RECEIVER SENSOR:** can be used with the optional IR-remote (see later)
3. **PLASTIC FILTER:** standard diffuser included, optional filters can be added.
4. **SAFETY EYE:** used for attaching a safety cable.
5. **ANTENNA:** short antenna for internal W-DMX transceiver. Don't remove or break this antenna!
6. **MOISTURE VALVE:** removes moisture from the housing to prevent condensation on the front glass. Please do not remove this valve or block the vents.
7. **MAINS input/output:** Connect the supplied mains cable or any PowerCON® TRUE1 extension cable here if you want use the projector while charging the batteries or just charge the batteries. The output can be used to daisy chain the power to several other projectors while the projectors are being charged or powered from the mains. Always close the rubber caps if no connector is connected.
8. **ON/STANDBY SWITCH:** switches the output on/off:
  - **While working on batteries:** the projector is completely switched on/off.
  - **While connected to the mains:** the lights are switched on/off but the battery is automatically charged. The display shows the status of the charging process.
9. **DMX input/output:** equipped with XLR 5pin male/female connectors, close the rubber caps if no connector is connected. If needed, the 5pin XLR-connectors can easily be converted to XLR 3pin with an optional conversion kit "BT-XLR5TO3 KIT" with order code: B05517.
10. **DISPLAY + TOUCH BUTTONS:** shows all information needed to operate the projector easily. The backlit touch buttons are used to easily navigate the setup menu and adjust settings.
 

- A. **MENU button:** press to enter the setup menu. Once in the setup menu: press to go to a higher menu level or exit the setup menu.
  - B. **ENTER button:** press to confirm a selected item or confirm a value.
  - C. **↑ button:** press to browse the menu or increase a value.
  - D. **↓ button:** press to browse the menu or decrease a value.
  - E. **OLED DISPLAY:** gives a lot of the selected working mode and is used to easily navigate the setup menu.
  - F. **STATUS / FUNCTION:** shows the status or function of the projector:
    - **While working in DMX-mode:** the name of the selected DMX-chart + DMX-start and (end) addresses are shown.
    - **While working in Master mode:** the the selected Master mode is shown:
      - **COL.MANUAL:** manually composed color
      - **COL.PRESET:** the name of the color preset is shown (for example: 6000K)
      - **COL.CHASE:** the name of the color chase and, between brackets, how it is configured: J=Jump \* F=Fade \* 0→255.

Example: **RG (F-100)** → color *Fading between Red and Green*, with speed = 100

- While working as **Slave** in a master/slave setup: The display shows that the projector is working as "Slave". On the bottom line you can see if the Slave is "linked" or "unlinked".



- G. <<>>:** The WDMX transceiver is switched as transmitter.  
 ■■■■ : The WDMX transceiver is switched as receiver.  
 ■■■■ : The WDMX transceiver is switched off.
- H. G3 / G4S:** indicates the status of the the WDMX function and which protocol is used (G3 or G4S):
  - G3 / G4S not shown:** WDMX-signal is not linked or not available
  - G3 / G4S remains on:** WDMX-signal is linked and working properly (see J: \* blinks normally)
  - G3 / G4S blinking fast:** WDMX pairing process is in progress or no signal detected.
- I. RX / TX:** shows the current working mode of the internal transceiver:
  - RX:** the wireless transceiver is working in receiver mode.
  - TX:** the wireless transceiver is working in transmitter mode.
- J. ASTERISK (\*):** blinks slowly when a valid DMX-signal is received.
- K. MST/SLV:** shows if the projector is working in MASTER-mode (**MST**) or SLAVE/DMX-mode (**SLV**).
- L. BATTERY:** shows the remaining capacity of the internal battery, expressed as a percentage. Below, between brackets, you get an idea of the remaining operating time based on the current settings.  
*Remark: Keep in mind that the remaining time is an estimation that is quite accurate while projecting a static color. In a chase program, the power consumption is constantly changing, so the time indicated will be less accurate.*

## 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 12times 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.



## ELECTRICAL INSTALLATION

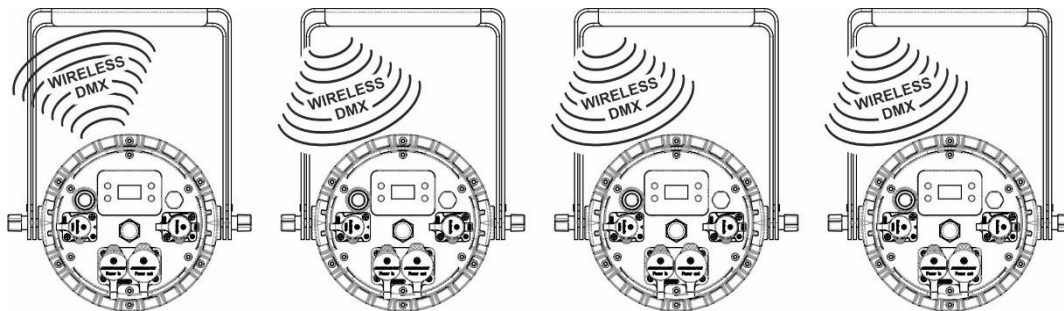
**⚠ Important:** The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.

**Note:** In the explanations below, we assume that you will operate the projectors with the internal battery which is already fully charged. If you want to use them with a mains cable, simply connect all projectors to the mains using the supplied power cable.

### Electrical installation for 1 standalone unit:

- Switch the projector on using the power switch. The unit starts working immediately in the last selected stand-alone mode.
- Refer to chapters SETUP MENU and OPERATING INSTRUCTIONS to learn how to operate.

### Electrical installation for two or more units in “wireless” master/slave:



- Set 1 unit as Master (wireless transceiver should be switched on in TX-mode)
- On the master: choose a working mode (Manual color, Color preset or Color Chase)
- Set the other units as Slaves (wireless transceiver should be switched on in RX-mode and NOT inlinked)
- Pair all units: select “Create Links” on the Master!
- Done

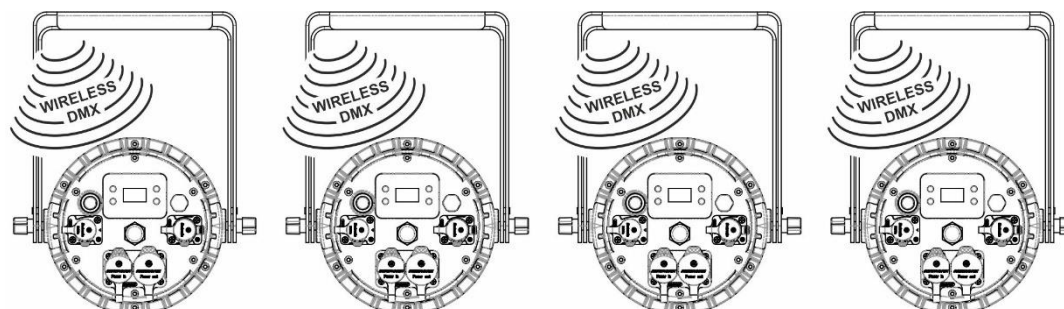
**Note:** See chapters SETUP MENU + WIRELESS OPERATION BETWEEN PROJECTORS for more information.

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

You can control the BTI-AKKUBEAMER by DMX in different ways, depending on your needs. You can go for a wired solution (using cables), you can go for a completely wireless solution or you can go for a combination of both...

#### WIRELESS SOLUTION

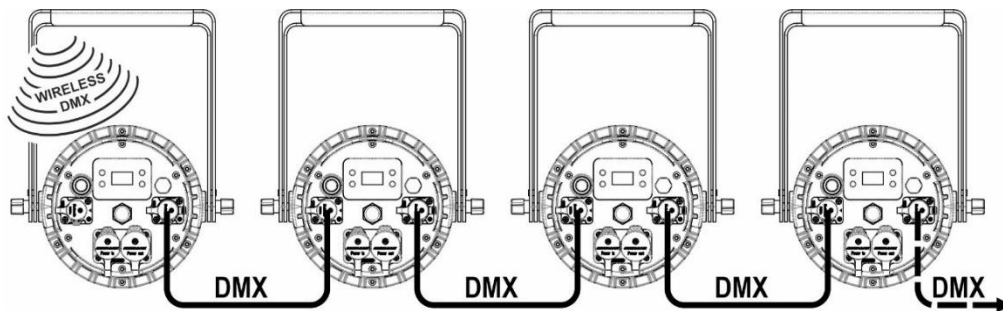
- Switch all projectors on.
- In the setup menu: select Master/Slave and choose “SLV/DMX”
- In the setup menu: select WIRELESS and choose: Power = on, “Delete link” (press ENTER to confirm)
- Put all projectors in the desired DMX-channel mode.
- Set the desired DMX start address on all projectors, take in account the number of DMX channels used by the selected DMX-channel mode!
- Pair all projectors with the wireless DMX transmitter: press the pair button on the transmitter. (for example: Briteq® “WTR-DMX TRANSCEIVER IP Mk2” transmitter is 100% compatible)
- Once this is done everything should work.





### MIXED SOLUTION

- Daisy chain all projectors using good quality balanced microphone/DMX cables.
- Switch all projectors on.
- In the setup menu: select Master/Slave and choose "SLV/DMX"
- On the first projector: select WIRELESS and choose: Power = on, "Delete link" (press ENTER to confirm)
- Put all projectors in the desired DMX-channel mode.
- Set the desired DMX start address on all projectors, take in account the number of DMX channels used by the selected DMX-channel mode!
- Pair the first projector with the wireless DMX transmitter: press the pair button on the transmitter. (for example: Briteq® "WTR-DMX TRANSCIEVER IP Mk2" transmitter is 100% compatible)
- Once this is done everything should work, you can even connect other DMX-equipment in the DMX-chain.

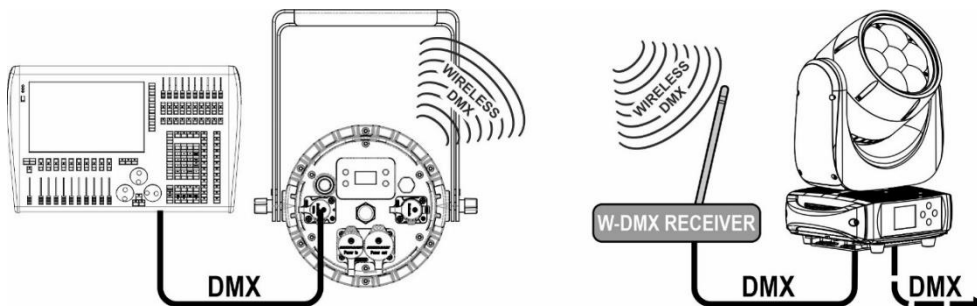


### ALTERNATIVE USE AS A W-DMX TRANSMITTER

The projector can also be used as an (alternative) DMX transmitter:

- Connect the projector to a controller using a DMX-cable.
- In the setup menu: select MAS/SLAV and choose "Slave/DMX"
- When the projector detects a DMX-signal on the input, it will autatically switch to G3-transmitter mode (TX).

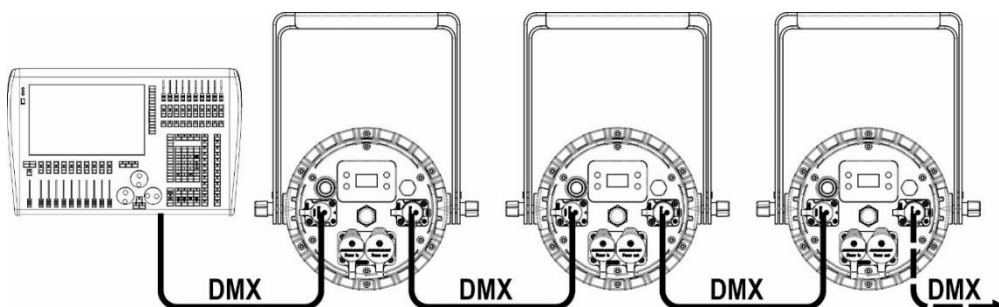
→ The projector is now ready to be used as a simple W-DMX transmitter and can be used with any W-DMX G3 receiver.



### WIRED SOLUTION

Same as the MIXED solution but the first unit in the chain also receives the DMX-signal from a DMX-cable plugged in its DMX-input connector. (Wireless power can be set to OFF)

**Note:** a wired DMX signal takes precedence over a wireless DMX signal.





# SETUP MENU:

## MAIN MENU:

- To select any of the menu options, press the **MENU** button.
- Use **▲** and **▼** button to choose the desired menu option.
- Once the required menu option is selected, press the **ENTER** button to select.
- Press the **MENU** button to return to running mode.

**Note:** when the display is locked, press these 5 keys in sequence to unlock: **↑ ↓ ↑ ↓ ENTER**

MAIN MENU		LEVEL 2	DEFAULTS	REMARKS
DMX Address			001	
└ L	001 → 512			
DMX MODE			STAGE (8CH)	
└ L	HSV (3CH)			
└ L	4COLORS (4CH)			
└ L	LEDCON (4CH)			
└ L	STAGE (8CH)			
Wireless				
└ L	POWER	ON / OFF	ON	Transceiver switches automatically to TX or RX mode
	Create Links	CONFIRM (YES/NO)		While W-DMX set to TX-mode
└ L	Delete Link	CONFIRM (YES/NO)		While W-DMX set to RX-mode
Master/Slave			SLAVE/DMX	
└ L	SLV / DMX			
└ L	Master			
DMX Fail			FREEZE	
└ L	Freeze			
└ L	Blackout			
IR Remote			ON	
└ L	ON			
└ L	OFF			
DIM Master			100%	
└ L	000→100%			
COL Manual			255	
└ L	RED (000→ 255)			
└ L	GREEN (000→ 255)			
└ L	BLUE (000→ 255)			
└ L	LIME (000→ 255)			
COL Preset			3200K	
└ L	2500K			
└ L	2800K			
└ L	3200K			
└ L	4000K			
└ L	5600K			
└ L	6000K			
└ L	YELLOW			
└ L	ORANGE			
└ L	RED			
└ L	MAGENTA			
└ L	CYAN			
└ L	BLUE			
└ L	GREEN			
└ L	GREEN 2			
COL Chase			RGB (Fade + 000)	
└ L	RGB	JUMP / FADE / SPEED (000→255)		
└ L	CMY	JUMP / FADE / SPEED (000→255)		
└ L	RGBCMY	JUMP / FADE / SPEED (000→255)		
└ L	RGBL	JUMP / FADE / SPEED (000→255)		
└ L	RG	JUMP / FADE / SPEED (000→255)		
└ L	RB	JUMP / FADE / SPEED (000→255)		
└ L	RY	JUMP / FADE / SPEED (000→255)		
└ L	RC	JUMP / FADE / SPEED (000→255)		
└ L	RM	JUMP / FADE / SPEED (000→255)		
└ L	RL	JUMP / FADE / SPEED (000→255)		
└ L	GB	JUMP / FADE / SPEED (000→255)		

**NOTE:**  
The 5 menu options ("IR-Remote" until "COL Chase") do NOT appear in the setup menu when the projector is used in DMX/SLAVE mode!

L	GY	JUMP / FADE / SPEED (000→255)		
L	GC	JUMP / FADE / SPEED (000→255)		
L	GM	JUMP / FADE / SPEED (000→255)		
L	GL	JUMP / FADE / SPEED (000→255)		
L	BY	JUMP / FADE / SPEED (000→255)		
L	BC	JUMP / FADE / SPEED (000→255)		
L	BM	JUMP / FADE / SPEED (000→255)		
L	BL	JUMP / FADE / SPEED (000→255)		
L	LY	JUMP / FADE / SPEED (000→255)		
L	LC	JUMP / FADE / SPEED (000→255)		
L	LM	JUMP / FADE / SPEED (000→255)		
L	YC	JUMP / FADE / SPEED (000→255)		
L	YM	JUMP / FADE / SPEED (000→255)		
L	CM	JUMP / FADE / SPEED (000→255)		
BATT Mode				
L	M100 (max.100%)		M100	
L	M90 (max.90%)			
L	M80 (max.80%)			
L	M70 (max.70%)			
L	M60 (max.60%)			
L	M50 (max.50%)			
NoMainsPower				
L	Switch OFF		BATTERY Mode	
L	BATTERY mode			
DISPLAY				
L	ON		LOCK	
L	OFF			
L	LOCK			
DIM SPEED				
L	LED		Very Fast	
L	Very Fast			
L	Fast			
L	Middle			
L	Slow			
DIM CURVES				
L	LINEAR		SQUARE	
L	SQUARE			
L	S-CURVE			
PWM FREQ.				
L	1200 Hz		3600 Hz	
L	2400 Hz			
L	3600 Hz			
L	7200 Hz			
SERVICE				
L	CALIBRATION	2500K, 2800K, 3200K, ..., 6000K		
		RED (+/-100%)	100%	These values are only used to adjust the projector white balance for the different CCT presets.
		GREEN (+/-100%)	100%	
		BLUE (+/-100%)	100%	
		LIME (+/-100%)	100%	
L	PROJ HRS	**** Hrs		
L	LED TEMP	** °C		
L	BATT Voltage	*.*** V		
L	BATT Current	**.* A		
L	BATT Temperature	** °C		
L	BATT SOC	** %		State Of Charge: Battery remaining energy in %
L	BATT Cycles	***		Number of recharging cycles of the battery
L	WDMX RSSI	-.** dBm		
		Very Good/Good/Poor/Very Poor		
L	RDM UID	0x21220057****		
L	FIRMWARE	V*. **		
L	FACTORY RESET	YES / NO		

### **DMX Address** DMX address setting

Used to set the start address in a DMX setup.

- Press the MENU button.
- Press the ▲ or ▼ button until **DMX Address** is shown on the display.
- Press the ENTER button to select.
- Use ▲ and ▼ buttons to change the DMX512 start address (end address is shown between brackets)
- Once the correct address is shown on the display, press the ENTER button to confirm.

### **DMX MODE** Channel Mode

The unit has different channel modes, refer to the DMX-chart to see the differences.

- Press the MENU button.
- Press the ▲ or ▼ button until **DMX MODE** is shown on the display.
- Press the ENTER button to select.
- Use ▲ and ▼ buttons to select one of the available channel modes.
- Once the mode is selected, press the ENTER button to confirm.

### **Wireless** Wireless DMX mode

The working mode for the internal wireless DMX-transceiver is automatically selected.

- Press the MENU button.
- Press the ▲ or ▼ button until **Wireless** is shown on the display.
- Press the ENTER button to select.
- Use ▲ and ▼ buttons to select one of the available options and confirm with ENTER:
  - **POWER**: switch the internal transceiver ON / OFF.
  - **Delete / Create wireless links**:
    - **While in SLV/DMX-mode**:
      - **No Wired DMX-input detected**: Receiver mode (RX-mode) is automatically selected, you can only delete an existing wireless link. → Choose "**Delete Link**" and press ENTER to confirm. Once unlinked, the receiver is ready to pair with another transmitter.
      - **Wired DMX-input detected**: Transmitter mode (TX-mode) is automatically selected. → Choose "**Create Links**": the transmitter links to all receivers that are currently unlinked.
    - **While in Master-mode**: Transmitter mode (TX-mode) is automatically selected. → Choose "**Create Links**": the transmitter links to all receivers that are currently unlinked.

### **Master/Slave** Master / Slave mode

Select if the projector should work as Master or as Slave / DMX-controlled.

- Press the MENU button.
- Press the ▲ or ▼ button until **Master/Slave** is shown on the display.
- Press the ENTER button to select.
- Use ▲ and ▼ buttons to select one of the available options and confirm with ENTER:
  - **SLV/DMX**: the projector works as a slave unit:
    - **Slave**: the projector waits for the (wired or wireless) signals from the connected **master** projector.
    - **DMX**: the projector waits for (wired or wireless) DMX-signals from a compatible DMX-controller.
  - **Master**: the projector works independently, based on the settings in the setup menu and/or the optional IR-remote controller.

### **DMX Fail**

Select how the projector should react when the DMX signal fails

- Press the MENU button.
- Press the ▲ or ▼ button until **DMX FAIL** is shown on the display.
- Press the ENTER button to select.
- Use ▲ and ▼ buttons to select one of the available options:
  - **FREEZE**: last valid DMX-signal is preserved and used.
  - **BLACKOUT**: projector turns dark while the DMX-signal is lost.
- Once the option is selected, press the ENTER button to confirm.

**IR Remote (only available while working in Master mode)**

In MASTER mode: switch the IR-Remote on/off to avoid unwanted altering of settings.

- Press the MENU button.
- Press the ▲ or ▼ button until **IR Remote** is shown on the display.
- Press the ENTER button to select.
- Use ▲ and ▼ buttons to select one of the available options:
  - **OFF**: the projector will not react to the IR-remote control.
  - **ON**: use the IR-remote to control the settings of the projector.
- Once the option is selected, press the ENTER button to confirm.

**DIM Master (only available while working in Master mode)**

In MASTER mode you can set the overall output.

- Press the MENU button.
- Press the ▲ or ▼ button until **DIM MASTER** is shown on the display.
- Press the ENTER button to select.
- Use ▲ and ▼ buttons to adjust the desired output of the master and all connected slaves.
- Once the desired level is selected, press the ENTER button to confirm.

**COL Manual (only available while working in Master mode)**

In MASTER mode you can combine the RGBL colors to make any desired color manually.

- Press the MENU button.
- Press the ▲ or ▼ button until **COL.MANUAL** is shown on the display.
- Press the ENTER button to select.
- Use ▲ and ▼ buttons to manually compose the required color by a combination of appropriate values for the 4 base colors:
  - **Red**: set a value between 000 and 255
  - **Green**: set a value between 000 and 255
  - **Blue**: set a value between 000 and 255
  - **Lime**: set a value between 000 and 255
- Once the desired color is composed, press the ENTER button to confirm and save.

**COL Preset (only available while working in Master mode)**

In MASTER mode you can choose from 6 white CCT presets and 8 color presets.

- Press the MENU button.
- Press the ▲ or ▼ button until **COL.PRESET** is shown on the display.
- Press the ENTER button to select.
- Use ▲ and ▼ buttons to select one of the presets:
  - **CCT-presets**: 2500K, 2800K, 3200K, 4000K, 5600K or 6000K
  - **COLOR-presets**: YELLOW, ORANGE, RED, MAGENTA, CYAN, BLUE, GREEN or GREEN2.
- Once the desired preset is selected, press the ENTER button to confirm and save.

**COL Chase (only available while working in Master mode)**

In MASTER mode you can choose different color chases and select if colors jump or fade.

- Press the MENU button.
- Press the ▲ or ▼ button until **COL.CHASE** is shown on the display.
- Press the ENTER button to select.
- Use ▲ and ▼ buttons to select one of the color chases:
  - **RGB** (color chase between Red, Green and Blue): press ENTER to select → use the ▲/▼ buttons to select between JUMP or FADE mode and confirm with ENTER → use the ▲/▼ buttons to adjust the speed from 000 (very slow) to 255 (fast). Press the ■-button (MENU) to return to the previous menu.
  - **CMY** (color chase between Cyan, Magenta and Yellow) ...
  - ...
  - ...

**Note:** The color chases have compact names to indicate between which colors will be jumped or faded. The first letter of the involved color is used: **R** = Red, **G** = Green, **M** = Magenta, **C** = Cyan, **L** = Lime, ...  
For example: a color chase named **YL** will be a chase between Yellow and Lime.

**BATT MODE**

Sets the maximum light output to extend the battery life.

- Press the MENU button.
- Press the ▲ or ▼ button until **BATT MODE** is shown on the display.
- Press the ENTER button to select.
- Use ▲ and ▼ buttons to select the desired battery mode:
  - **M100**: maximum light output is not limited (max. = 100%)
  - **M90**: maximum light output is limited to max. 90% to extend battery life.
  - **M80**: maximum light output is limited to max. 80% to extend battery life.
  - **M70**: maximum light output is limited to max. 70% to extend battery life.
  - **M60**: maximum light output is limited to max. 60% to extend battery life.
  - **M50**: maximum light output is limited to max. 50% to extend battery life.
- Once the desired battery mode is selected, press the ENTER button to confirm.

**Note:** this mode is active in MASTER mode: set the BATT MODE on the master, slaves follow the master.  
This mode is also active in the DMX mode: max. light output is limited by the BATT MODE.

**NoMainsPower**

Used to switch the battery function on/off while working on mains power.

- Press the MENU button.
- Press the ▲ or ▼ button until **NoMainsPower** is shown on the display.
- Press the ENTER button to select.
- Use ▲ and ▼ buttons to select the desired mode:
  - **BATTERY Mode**: when no mains power is connected, the projector is working as a “battery powered” projector.
  - **Switch OFF**: This prevents the projector in a traditional installation from continuing to operate when the mains power is turned off. This allows the projector to be used as a “regular” projector as well.
- Once the desired mode is selected, press the ENTER button to confirm.

**DISPLAY**

Sets the display behavior.

- Press the MENU button.
- Press the ▲ or ▼ button until **DISPLAY** is shown on the display.
- Press the ENTER button to select.
- Use ▲ and ▼ buttons to select the desired mode:
  - **ON**: display always stays on.
  - **OFF**: display turns dark after 30 seconds.
  - **LOCK**: display turns dark and buttons are locked after 30 seconds.  
To unlock: press these 5 keys in sequence to unlock: ↑ ↓ ↑ ↓ **ENTER**
- Once the desired display mode is selected, press the ENTER button to confirm.

**DIM SPEED**

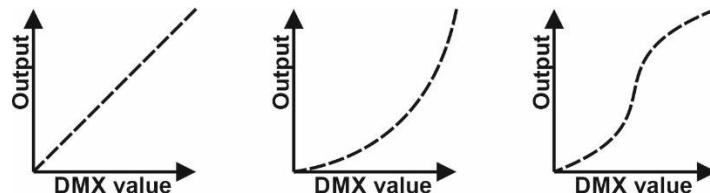
Sets the reaction time / LED behavior while the projector is controlled via DMX.

- Press the MENU button.
  - Press the ▲ or ▼ button until **DIM SPEED** is shown on the display.
  - Press the ENTER button to select.
  - Use ▲ and ▼ buttons to select the desired LED behavior:
    - **LED**: no delay, lightning-fast response time. Attention: when dimming, small steps are visible.
    - **Very Fast**: very fast response but with smoother dimming performance.
    - **Fast**: Slightly slower response time but excellent stepless dimming performance.
    - **Middle**: even slower response time like with the previous halogen lamps.
    - **Slow**: slow reaction time.
  - Once the desired speed is selected, press the ENTER button to confirm.
- Note:** in the « STAGE » DMX-mode, you can adjust the dim speed with channel 8. The dimmer speed of the other DMX-modes is selected in the setup menu.

**DIM CURVES**

Sets the desired dimmer curve while the projector is controlled via DMX.

- Press the MENU button.
- Press the ▲ or ▼ button until **DIM CURVES** is shown on the display.
- Press the ENTER button to select.
- Use ▲ and ▼ buttons to select the desired dimmer curve:
  - **LINEAR**: provides a uniform increase in light in correlation with increasing DMX value.
  - **SQUARE**: provides a finer control at low levels for maximum control, followed by an increasing slope.
  - **S-CURVE**: provides finer control at lower and higher levels while also approaching best the dimming curve of a typical incandescent lamp.



- Once the desired curve is selected, press the ENTER button to confirm.

**PWM FREQ**

Sets the refresh rate of the LEDs.

- Press the MENU button.
- Press the ▲ or ▼ button until **PWM FREQ** is shown on the display.
- Press the ENTER button to select.
- Use ▲ and ▼ buttons to select the desired PWM frequency:
  - 1200 Hz
  - 2400 Hz
  - 3600 Hz (default)
  - 7200 Hz
- Once the desired PWM frequency is selected, press the ENTER button to confirm.

**SERVICE**

Displays information and provides access to special settings

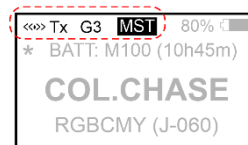
- Press the MENU button.
- Press the ▲ or ▼ button until **SERVICE** is shown on the display.
- Press the ENTER button to select.
- Use ▲ and ▼ buttons to select the desired mode:
  - **CALIBRATION**: adjust small color differences between the CCT-presets of projectors.
  - **PROJ HRS**: shows the total time the projector is used.
  - **LED TEMP**: shows the actual LED temperature.
  - **BATT Voltage**: shows the actual battery voltage.
  - **BATT Current**: shows the actual current draw from the battery.
  - **BATT Temperature**: shows the actual temperature of the battery, should be higher while charging.
  - **BATT SOC**: State Of Charge, indicates how much energy is still left in the battery.
  - **BATT Cycles**: shows how many times the battery was already recharged since the beginning.
  - **WDMX RSSI**: on the receiver the Received Signal Strength Indicator shows the signal power in dBm. Also an indication of the signal quality is shown:
    - **Very Good** (RSSI is very high, excellent reception guaranteed)
    - **Good** (RSSI is OK, good reception guaranteed)
    - **Poor** (RSSI is under the stable limit, drop outs could happen)
    - **Very Poor** (RSSI is far under the stable limit, drop outs will be frequent)
  - **RDM UID**: shows the unique RDM ID → 21220057xxxx (xxxx = unique number for the unit)
  - **FIRMWARE**: shows the actual firmware version. (V x.x.x)
  - **FACTORY RESET**: sets all parameters to default values.

## WIRELESS OPERATION BETWEEN PROJECTORS

Each unit has an on-board wireless DMX transceiver. This means that each unit can be a transmitter or a receiver. Each wireless system consists of 2 parts: a transmitter and one or multiple receivers. Multiple wireless installations can operate independently of each other at the same location. In such cases, it is important to pair the receivers with the right transmitter. Follow the steps below to pair the transmitters and receivers correctly.

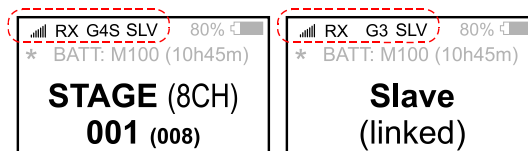
### SETTING UP IN TRANSMITTER MODE

When you set the projector as MASTER, the wireless transceiver is automatically set as transmitter (Tx-mode, sending with wireless G3-protocol). Make sure the power of the transceiver is switched on.



### SETTING UP IN RECEIVER MODE

When you set the projector in SLV/DMX (slave or DMX mode), the wireless transceiver is automatically set as receiver (Rx-mode, compatible with G3, G4 & G4S-protocols). Make sure the power of the transceiver is switched on.



### PAIRING TRANSMITTER AND RECEIVER(S)

**Before you start:** make sure the receiver(s) to be paired are not already paired with another transmitter.

- **UNLINK the receivers** → follow these steps on the (DMX) slaves (automatically set as receivers):
    - Select the option WIRELESS in the setup menu.
    - Make sure Power is switched ON
    - Select “delete Link” and press “ENTER” to confirm.
    - Any existing link on the receiver is now deleted: the receiver is ready to be linked!
  - **LINK the transmitter to the receivers** → follow these steps on the Master (automatically set as transmitter):
    - Select the option WIRELESS in the setup menu.
    - Make sure Power is switched ON
    - Select “Create Links”
    - The transmitter pairs with all free (unlinked) receivers in range!
- Note1:** while the pairing process, the G3 icon on the display blinks fast. The icon stops blinking when the connection is made and a valid DMX signal is received.
- Note2:** when linked to the “master”, the slave display changes from “Slave (unlinked)” to “Slave (linked)”

## WIRELESS OPERATION WITH WDMX G4 TRANSCEIVER

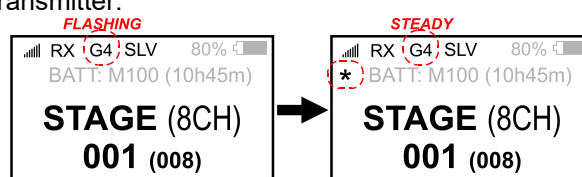
As explained in the previous chapter, each unit has an on-board wireless DMX transceiver that is compatible with the worldfamous Wireless Solution® W-DMX G3, G4, G4S protocols. So, you can pair the projectors with any transceiver that supports one of these protocols, both as transmitter or receiver. Examples of such products are:

- WTR-DMX TRANSCEIVER IP Mk2 from Briteq (order code: B05041)
- WTR-DMX DONGLE from Briteq (order code: B04645)
- M-DMX TRANSCEIVER II from JBS (order code: B05026)
- EZ-CON 24W from JBS (order code: B05023)
- W-DMX transceivers from other brands, if they support the Wireless Solution® W-DMX protocol.

The working method is very similar to that of the “WIRELESS OPERATION BETWEEN PROJECTORS”.

- Set the projector(s) to work in SLV/DMX-mode (see previous chapter)
- Choose the desired DMX-mode and set the DMX-address.
- Make sure that the projector is NOT paired to another transmitter! (unlink if needed)
- Start the pairing procedure on any compatible W-DMX transmitter.

→ On the projector(s) G3, G4 or G4S icon starts flashing rapidly. When the connection is established, the G3, G4 or G4S icon stops blinking and an asterisk (\*) flashes at normal speed on the left of the display to indicate that a valid signal is received.





## OPERATING INSTRUCTIONS

### A. Standalone 1unit:

- In the setup menu: select MAS/SLAV and choose Master.
- In the setup menu: select one of the available working modes:
  - COL.MANUAL: make your own color
  - COL.PRESET: choose a CCT or color preset
  - COL. CHASE: choose a color transition and select fade/jump and speed.

**Note:** Refer to chapter *SETUP MENU* for more information.

### B. Two or more units in wireless master/slave setup:

- On **all slave(s)**: select MAS/SLAV and choose Slave/DMX.
  - Select the option WIRELESS and choose: Power = on
  - Select "delete Link" and press "ENTER" to confirm.
    - Any existing link on the receiver is now deleted: the receiver is ready to be linked!
- Choose 1 projector to be the **master** and select one of the available working modes: see point A
  - Select "Create Links"
    - The transmitter pairs with all free (unlinked) receivers in range!

**Note:** Refer to chapter *SETUP MENU* for more information.

### C. Controlled by universal DMX-controller:

- Connect all units together. Refer to the chapter "Electrical installation for two or more units in DMX-mode" to learn how to do this (don't forget to address all units properly!)
- Turn on the DMX controller.

**Note:** since each unit has its own DMX-address, you can control them individually. Refer to the different DMX channel modes to find the most appropriate.

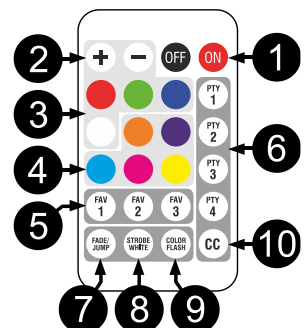
### D. Connect an optional JBS LEDCON-02 Mk2 or LEDCON-XL controller for more control:

- Connect all units together. Refer to the chapter "Electrical installation for two or more units in DMX-mode" to learn how to do this.
- To control the projectors with the **JBS LEDCON-02 Mk2**:
  - Select on all projectors: DMX MODE = LEDCON(4CH)
  - Check the user manual of the controller to learn how to set the DMX-addresses of the projectors for 4CH or 8CH chase modes.
- To control the projectors with the **JBS LEDCON-XL**:
  - Select on all projectors: DMX MODE = 4COLOR(4CH)
  - Check the user manual of the controller to learn how to setup the controller patch (choose patch12) and which DMX-addresses should be used.

### E. Controlled by IR remote-controller:

The IR-remote can only be used while the projector is switched as MASTER. While running in master/slave mode, the IR remote will control the master but the slaves are also synchronized.

1. **ON/OFF:** Schakelt de projector aan/uit.
2. **+ / - :** used to increase/decrease the values of various functions. Short press for small steps, long press = large x10 steps.
3. **MANUAL COLORS:** the primary colors red, green, blue and lime can be selected and controlled with the +/- buttons (2) to make the desired color.
4. **COLOR PRESETS:** direct acces for 5 color presets.
5. **FAV1→3:** 3 different color combinations made with the 4 primary colors (3) can be stored under these 3 "FAVorite" keys:
  - **Save a favorite:** press one of the 3 FAV-keys during 3seconds.
  - **Recall a favorite:** press one of the 3 FAV-keys shortly.
- Note:** use the +/--buttons to change the dimmer level.
6. **PTY1→4:** shortcut to the first 4 color chases: RGB, CMY, RGBCMY, RGBL
7. **FADE/JUMP:** choose between JUMP and FADE for the PTY-chases (6). The speed can be changed with the +/- buttons (2).
8. **WHITE STROBE:** Strobe effect in white color. The speed can be changed with the +/- buttons (2).
9. **COLOR STROBE:** Strobe effect in color. The speed can be changed with the +/- buttons (2).



10. **CC-button:** shortcut to the different color and CCT-presets. The dimmer level can be changed with the +/- buttons (2).

## DMX CHARTS

### HSV (3CH)

CHANNEL	VALUES	FUNCTION	REMARKS
1	000 - 255	HUE	
2	000 - 255	SATURATION	
3	000 - 255	VALUE	

### 4COLORS (4CH)

CHANNEL	VALUES	FUNCTION	REMARKS
1	000 - 255	RED (0-100%)	
2	000 - 255	GREEN (0-100%)	
3	000 - 255	BLUE (0-100%)	
4	000 - 255	LIME (0-100%)	

### LEDCON (4CH)

CHANNEL	VALUES	FUNCTION	REMARKS
1	000 - 255	RED (0-100%)	
2	000 - 255	GREEN (0-100%)	
3	000 - 255	BLUE (0-100%)	
4	000 - 190	Master dimmer	
	191 - 200	Sound control (7 colors)	No sound mode available in this projector.
	201 - 247	Strobe	Increasing speed: 201=slow ~ 247=fast
	248 - 255	Master dimmer @ 100%	

### STAGE (8CH)

CHANNEL	VALUES	FUNCTION	REMARKS
1	000 - 255	RED (0-100%)	
2	000 - 255	GREEN (0-100%)	
3	000 - 255	BLUE (0-100%)	
4	000 - 255	LIME (0-100%)	
5	000 - 045	CH1 → CH4 active	No presets → CH1 to CH4 for color control
	046 - 060	2500K	
	061 - 075	2800K	
	076 - 090	3200K	
	091 - 105	4000K	
	106 - 120	5600K	
	121 - 135	6000K	
	136 - 150	YELLOW	
	151 - 165	ORANGE	
	166 - 180	RED	
	181 - 195	MAGENTA	
	196 - 210	CYAN	
	211 - 225	BLUE	
	226 - 240	GREEN	
	241 - 255	GREEN 2	
6	000 - 255	DIMMER (0-100%)	General dimmer 0-100%
7	000 - 005	NO STROBE (OPEN)	output is ON
	006 - 126	RANDOM STROBE (slow →fast)	
	127 - 134	NO STROBE (OPEN)	output is ON
	135 - 255	NORMAL STROBE (slow →fast)	
8		DIMMER SPEED	sets the reaction time (behavior) of the dimmer
	000 - 005	DIM SPEED AS IN SETUP MENU	Dimmer speed preset as set in setup menu
	006 - 255	DIM SPEED (fast → slow)	006 = no delay (LED) → 255 = slow reaction time

## RDM FUNCTIONS / REMOTE SETUP

RDM means “Remote Device Management” (control the unit from a distance). This projector works with a brief set of RDM-functions which means that it can setup a bi-directional communication with an RDM-compatible DMX-controller. Some of these functions are briefly explained below, others will be added in the future.

- The DMX-controller sends out a “discovery command”, all RDM devices respond and send their unique device ID.
- The DMX-controller asks each RDM device for some basic data so it knows which devices are connected. The projector will respond:
  - **Device name:** BTI-AKKUBEAMER
  - **Manufacturer:** Briteq®
  - **Category:** LED Dimmer
  - **Firmware:** Vx.x (firmware version of the projector)
  - **DMX address:** xxx (current DMX start address of the projector)
  - **DMX footprint:** xx (number of DMX-channels used by the projector)
  - **Personality:** xx (current personality or DMX-working mode used by the projectors)
  - **Temperature:** xx°C (current LED temperature)
- The DMX-controller can send certain commands to each RDM device which allow remote setup of the units. Thanks to this the projectors can be setup remotely.

**Remark:** RDM is not available via wireless DMX.

### The following functions can be managed remotely:

No longer need to take a ladder and set all units one by one!

- **DMX START ADDRESS:** The start address can be set remotely from 001 to xxx.
- **PERSONALITY:** The DMX working mode (DMX-chart) can be set remotely.
- **LABEL:** The fixture can be given a custom label for easy management

These functions make it possible to prepare a complete DMX-patch of all projectors on the DMX-controller and send these data to all projectors at once. More functions will be added later.

## MAINTENANCE

- Switch off the unit and unplug the mains cable.

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

- 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.
- **BATTERY maintenance:** We strongly advice to follow the maintenance requirements imposed by the battery reseller. On top of that you should at least every 6 months:
  - Do a visual check of the battery: cleanness, terminal damage, any damage of the housing, ...
  - Check the if the poles of the battery are still well tightened to the wires.
  - ...

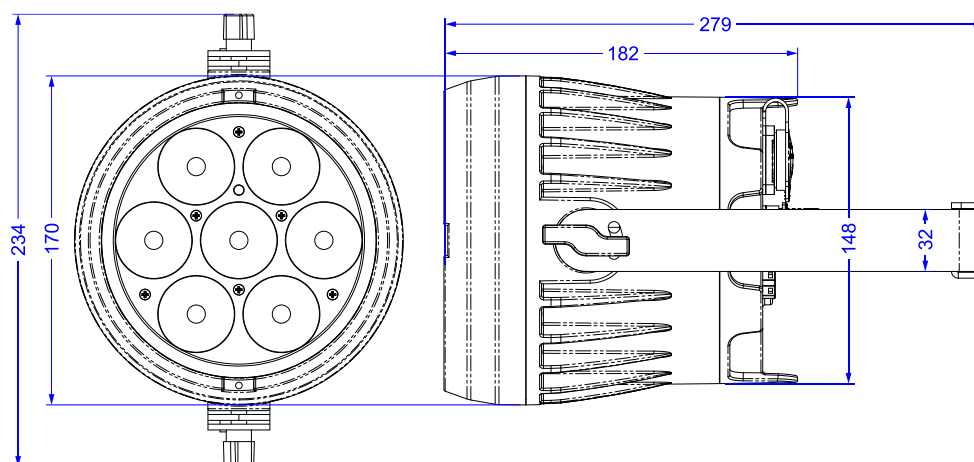
**Attention:** We strongly recommend internal cleaning to be carried out by qualified personnel!

**RECYCLING OF USED BATTERIES:** used Li-ion batteries should be considered and handled as dangerous waste: NEVER dispose of these batteries in the regular garbage. If crushed or burned, these batteries can catch fire and even explode. Each country has its own regulations for the recycling of used rechargeable batteries: check the local regulations in your country or ask your battery vendor for more information on recycling of the used rechargeable batteries!

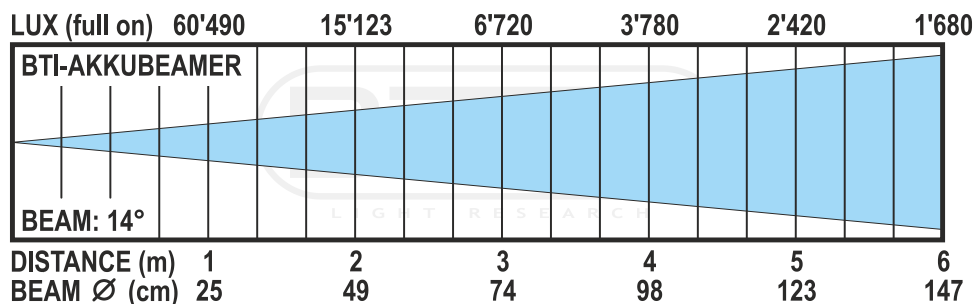
## SPECIFICATIONS

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.

<b>Mains Input:</b>	100-240V, 50/60HZ
<b>Power consumption:</b>	75 Watt (max)
<b>Rechargeable battery:</b>	25,9Vdc / 7800 mAh / 202 Wh (Li-ion)
<b>Sound Control:</b>	no
<b>IP-Rating:</b>	IP65
<b>DMX connections:</b>	XLR 5pin Male-Female (can be converted to XLR 3pin)
<b>LEDs:</b>	7 LEDs 4IN1 RGBL 10W
<b>Beam angle:</b>	10° (optional: 15° or 19° beam shaper)
<b>IP Rating:</b>	IP65
<b>Size:</b>	170 x 234 x 182 (279)mm (see drawing for more information)
<b>Weight:</b>	5,3 kg (incl. mains cable)



### LUXCHART:



Every information is subject to change without prior notice

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