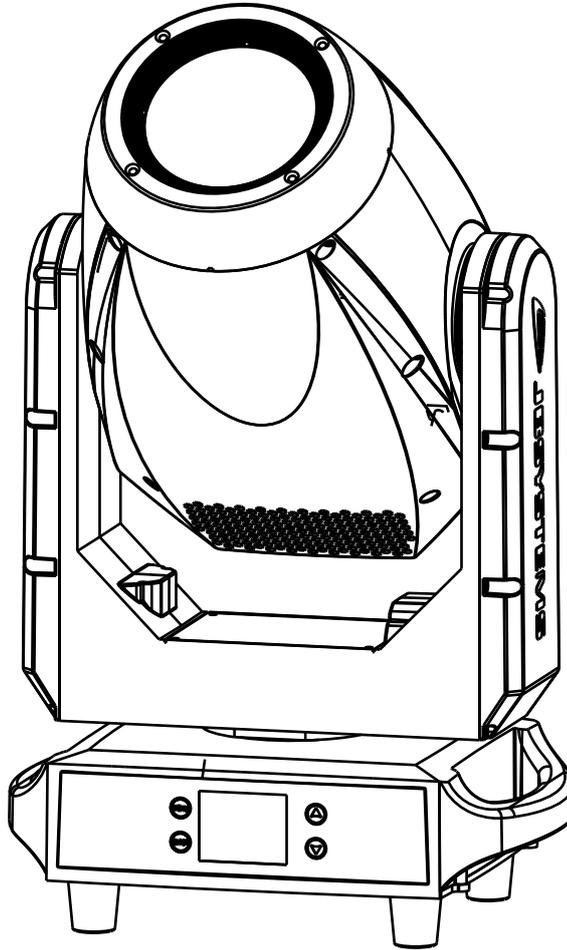


# RIVAL SPOT



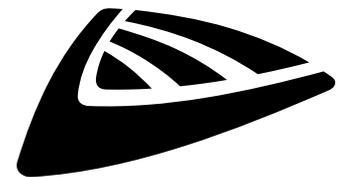
## ENGLISH

### Operation Manual

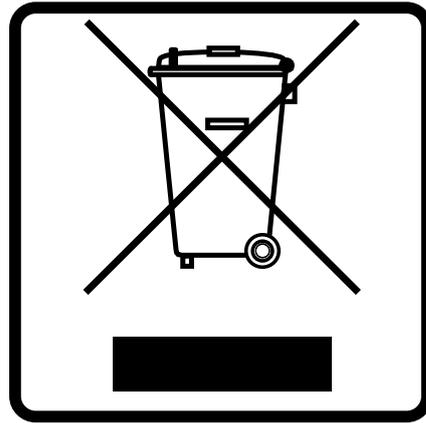
Other languages can be downloaded from:  
[WWW.JB-SYSTEMS.EU](http://WWW.JB-SYSTEMS.EU)



*Version: 1.0*



**JB SYSTEMS**



### **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.

# USER MANUAL

Thank you for buying this JB Systems® 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 is a compact and light weight OUTDOOR VERSION of our extremely successful CHALLENGER BSW.
  - IP65 protection!
  - Upgraded 300W LED Power for increased output!
- Focus controlled by DMX
- Zoom controlled by DMX
- 3 facet rotating prism
- 0-100% dimming and different strobe effects
- Separate gobo wheel with 8 fixed gobos + open
- Separate gobo wheel with 8 rotating gobo's + open (diameter gobo 16mm – pattern max. 10mm)
- Color wheel with 10 colors + open
- Multiple working modes:
  - DMX-control: via 5, 17 or 20 channels
  - Standalone: sound activated with internal mic
  - Master/slave: Wonderful synchronized shows in standalone mode
- Build-in Wireless DMX compatible with WDMX G4
- Color LCD-display for easy menu navigation
- 3p and 5p XLR connectors for DMX in- and output.

## BEFORE USE

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

### Check the contents:

Check that the carton contains the following items:

- RIVAL SPOT unit
- 2 Omega-brackets
- True1 compatible power 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 of 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 Class I appliance must be earthed in order to comply with safety regulations

**IP65**

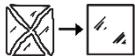
This unit is fully protected against dust ingress and is also protected against water jets from all directions.



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



Visibly damaged lenses/housing parts should be replaced with original spare parts.



**CAUTION:** Do not stare at operating light source, this may be harmful to the eyes.



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

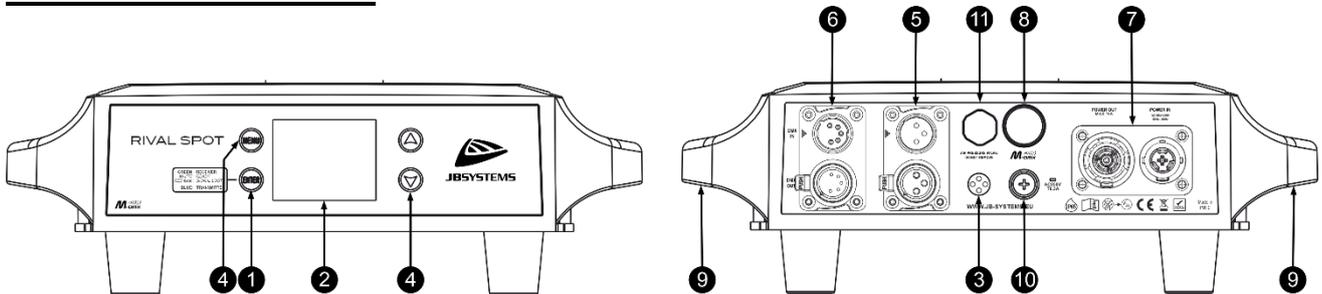
- To protect the environment, please try to recycle the packing material as much as possible.
- To avoid condensation forming inside, allow the unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condensation sometimes prevents the unit from working at full 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. Apart from the 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 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.

## HOW TO SET UP THE UNIT

### FRONT + BACK PANEL:



- ENTER & W-DMX indicator:** Indicate the status and mode of the WDMX module
    - **Green:** Receiver mode
    - **Blue:** Transmitter mode
    - **Red:** Connection lost
    - **White:** Ready to pair
  - DISPLAY:** shows the information on the different modes and functions.
  - MICROPHONE** for sound mode.
  - DISPLAY MODE BUTTONS:**
    - **▼ button :** press this button to go down in the menu or lower a value
    - **▲ button :** press this button to go up in the menu or increase a value
    - **MENU:** press this button to go back to the main menu or to leave submenus.
  - DMX OUT:** 3p and 5p XLR Female connector to connect other projectors or use in Master/slave mode.
  - DMX IN:** 3p and 5p XLR Male connector receive DMX data from a console or use in Master/slave mode.
  - POWER IN/OUT:** used to power the fixture and daisy chain the power to several other fixtures. Always pay attention to the maximum load while adding fixtures!
  - W-DMX ANTENNA**
  - CARRY HANDLE:** Must also be used to connect the safety cable
  - FUSE HOLDER**
  - AIR VALVE**
- Remark: On the head, besides the heatsink, there is a second air valve.*

**SETUP MENU:**

- This is the list of all the functions in the machine.
- To select any of these functions, press the MENU button and use the ▲/▼ buttons to browse the menu.
- Select the desired function with the ENTER button.
- Use ▲/▼ buttons to change the mode or value.
- Once the required mode or value is selected, press the ENTER button to select.

Level 1	Level 2	Level 3
DMX Funtions	DMX Address	1-xxx
	DMX Mode	Mode 1 (5ch)
		Mode 2 (17ch)
		Mode 3 (20ch)
	No DMX	Sound
		Freeze
		BlackOut
	W-DMX	On/Off
		W-DMX Mode
		Create link
Delete link		
View DMX Value		
Show Settings	Show Mode	Floor 180°
		Ceiling hung
		Stage floor
		Stage hung
	Slave Mode	Sync
		Opposite
Sound Trigger	On/Off	
Sound sensitivity	0-100	
Fixture Settings	Pan Inverse	Yes/No
	Tilt Inverse	Yes/No
	P/T Feedback	Yes/No
	Dimmer Curve	Linear
		Square
		Inv SQ
		S Curve
Dimmer Speed	Fast/Smooth	
Display Inverse	Yes/No/Auto	
Display Settings	Backlight Switch	On/Off
	Backlight Intensity	2/10
	Temperature Unit	C/F
	Lock keyboard	Yes/No
	Fixture Test	Auto test
Manual test		
Fixture Information	RDM UID	0x2122100Axxxx
	Fixture Use time	
	Firmware version	
Reset	Pan/Tilt	
	Effect	
	All	
Special function	Factory setting	
	Password	

**DMX Functions**

**DMX Address**

Used to set the desired DMX-address.

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.

- Press the ENTER button: the values can be changed
- Use ▲/▼ buttons to select the desired DMX512 address.
- Once the correct address shows on the display, press the ENTER button to confirm.

### **DMX Channel**

**Used to set the desired channel mode.**

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the values can be changed
- Use ▲/▼ buttons to select the desired mode:
  - **5 CH mode:** PAN/TILT are music controlled while the dimmer, strobe speed, gobos, colors & PAN/TILT –speed can be set using only 5 DMX channels.
  - **17 CH mode:** same as the 20CH mode but without Pan/Tilt/Dim Fine adjustment possibility.
  - **20 CH mode:** Full DMX-control on all functions.
- Once the correct option shows on the display, press the ENTER button to confirm.

### **No DMX**

**Used to set how the projector reacts when the DMX-signal disappears.**

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the values can be changed
- Use ▲/▼ buttons to select the desired mode:
  - **Sound:** the projector starts working in audio mode.
  - **Freeze:** output based on the last valid DMX-signal is kept on the projector.
  - **Blackout:** output turns black while no DMX is detected.
- Once the correct option shows on the display, press the ENTER button to confirm.

**Note:** as soon as the input detects a DMX-signal, blackout, freeze or audio mode will be cancelled.

### **W-DMX**

**Used to configure the W-DMX transceiver**

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the values can be changed
- Use ▲/▼ buttons to select the desired function:
  - **ON/OFF:** Enables or disables the W-DMX module
  - **W-DMX mode:** Configures the W-DMX module as transmitter or receiver
  - **Create/Delete link**
- Once the correct option shows on the display, press the ENTER button to confirm.

### **View DMX Value**

**Shows the value of each function of the fixture on every moment. Used for problem solving.**

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.

## **Show Settings**

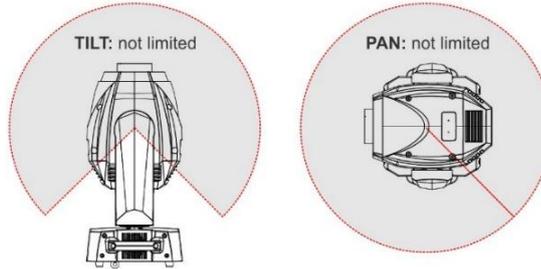
### **Show Chase**

**Used to select the installation position of the projector while used in standalone mode.**

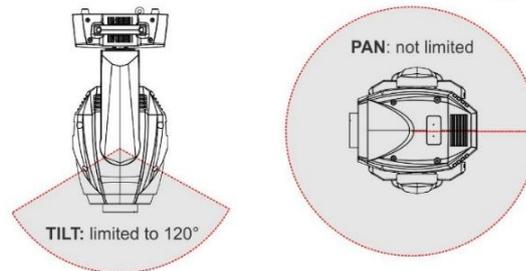
- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button to select the desired show mode.
  - **Floor 180°**
  - **Ceiling hung**
  - **Stage floor**
  - **Stage hung**

**EXPLANATION ON THE PAN/TILT LIMITATIONS  
USED IN DIFFERENT SITUATIONS (SHOWMODES 1to4)**

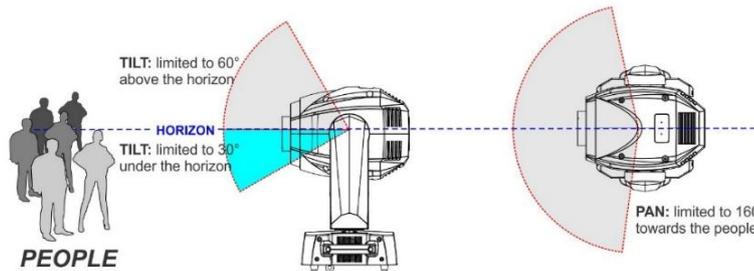
**SHOW1 / Floor 180°** : used when the fixture is placed on the floor.



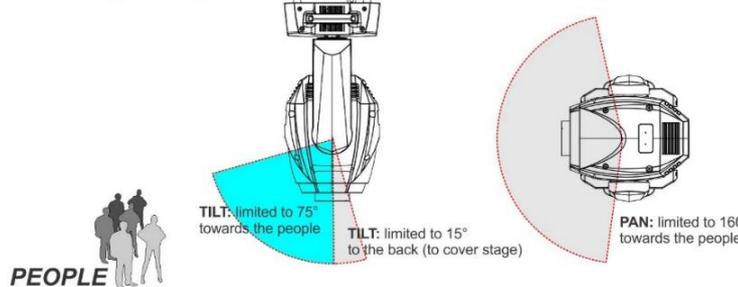
**SHOW2 / CeilingHung** : used when the fixture is fixed under the ceiling.



**SHOW3 / Stage Floor** : used when the fixture is place on a stage, pointing to the people.



**SHOW4 / Stage Hung** : used when the fixture is fixed on stage, under the ceiling.



- Once the right mode is shown on the display, press the ENTER button to confirm.

**Slave Mode**

- Used to make the slave unit work in opposite to the master or to work in complete sync.
- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the values can be changed
- Use ▲/▼ buttons to select the desired mode:
  - **Master sync:** the slave operates in complete sync with the master.
  - **Master Opposite:** the slave operates in the opposite mode as compared with the master.
- Once the correct option shows on the display, press the ENTER button to confirm.

### Sound Trigger

- **Used to make the unit work in audio mode .**
- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the values can be changed
- Use ▲/▼ buttons to select the desired mode.

### Sound Sense

- **Used to adjust the sensitivity of the build in microphone .**
- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the values can be changed
- Use the ▼/▲ buttons to choose a value between “000” (very low sensitivity) and “100” (high sensitivity).
- Press the ENTER button to confirm the desired sensitivity.

## Fixture Settings

### Pan Inverse

**Used to select if the PAN movements are inverted or not.**

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the values can be changed
- Use ▲/▼ buttons to toggle between No and Yes.
- Press the ENTER button to confirm.

### Tilt Inverse

**Used to select if the TILT movements are inverted or not.**

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the values can be changed
- Use ▲/▼ buttons to toggle between No and Yes.
- Press the ENTER button to confirm.

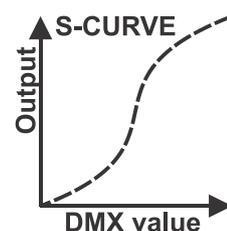
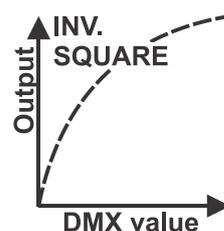
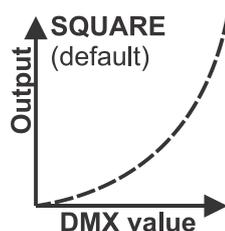
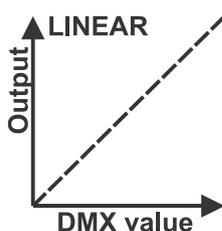
### P/T Feedback

- **This function corrects the PAN/TILT positions automatically if someone bumps onto the machine.**
- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the values can be changed
- Use ▲/▼ buttons to toggle between No and Yes.
- Press the ENTER button to confirm.

### Dimmer Curve

**Used to set the dimmer curve of the master dimmer.**

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the values can be changed
- Use ▲/▼ buttons to selected the desired curve:



- Once you have the desired curve, press the ENTER button to save it.

**Dimmer Speed**

Used to set the dimmer speed of the master dimmer.

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the speed can be changed to Fast or Smooth.
- Use ▲/▼ buttons to selected the desired dimming speed.
- Press the ENTER button to confirm.

**Display Settings****Display Inverse**

Used to control the display orientation.

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the display can be turned by selecting Yes or No.
- Use ▲/▼ buttons to select the desired display position.
- Press the ENTER button to confirm.

**Backlight Switch**

Used to adjust whether the display stays lit or not after the last time it was used.

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the Backlight Switch can be turned On or Off.
- Use ▲/▼ buttons to select On (display backlight will turn off after 30s) or Off (display stays lit).
- Press the ENTER button to confirm.

**Backlight Intensity**

Used to set the brightness of the backlight.

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the brightness of the backlight can be set from 000 to 010.
- Use ▲/▼ buttons to select the desired value.
- Press the ENTER button to confirm.

**Temperature Unit**

Used to set the temperature measurement in °C or °F.

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the temperature can be set in °C or °F.
- Use ▲/▼ buttons to select the desired temperature measurement.
- Press the ENTER button to confirm.

**Fixture Test****Auto Test**

Used to start the automatic test function: all functions will be tested.

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the projector starts an automatic AUTOTEST program until you stop it.
- Press the MENU button to stop the program.

**Manual Test**

Used to test all functions one by one manually.

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button. A list with all the functions will appear.
- Press the ▲/▼ buttons to select the function you want to test.

- Press the ENTER button to confirm.
- Press the ▲/▼ buttons to change the value for testing.
- Press the MENU button to stop the program.

## Fixture Information

### RDM UID

Used to show the number of hours the fixture has been used.

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the display will show the used time.
- Press the MENU button to stop the program.

### Fixture use time

Used to show the number of hours the fixture has been used.

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the display will show the used time.
- Press the MENU button to stop the program.

### Firmware Version

Shows the current firmware version in the projector.

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the display shows the firmware versions of the different processors in the projector:  
A-Vxx, B-Vxx, C-3xx

**Note:** The firmware of this unit can be upgraded using the Firmware Updater (order code : B04319) from Briteq with Windows® software.

## Reset

### Pan/Tilt

Used to reset the Pan and Tilt functions of the projector.

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the display shows Pan/Tilt
- Press the ENTER button again to start resetting Pan/Tilt functions.

### Effect

Used to reset the effect functions of the projector.

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the display shows Effect
- Press the ENTER button again to start resetting the effect functions.

### All

Used to reset all the functions of the projector.

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the display shows ALL
- Press the ENTER button again to start resetting ALL functions.

### Special Function > Factory Setting

Used to reset the functions of the projector to the factory settings.

- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button: the display shows Special Function>Factory Setting.

- Press the ENTER button again to select No or Yes.

### **Special Function > Password**

Used to reset the fixture use timer.

## **MOTOR OFFSET MENU**

This is a hidden menu where you can fine-tune the offset of several functions. To access this menu do as follows: press the ENTER button for about 2 seconds while you are in the MAIN Menu (any option, not important). Now the Motor Offset menu shows up:

The home position from the following functions can be adjusted (between -128 and 127) :

- Pan
  - Tilt
  - Color
  - Gobo1
  - Gobo2
  - RGobo2
  - Prism
  - RPrism
  - Frost
  - Focus
  - Zoom
- Press the ▲/▼ buttons until the desired function is showing on the display.
  - Press the ENTER button to select the desired function to adjust.
  - Press the ▲/▼ buttons until the desired function is showing on the display.
  - Press the ENTER button to confirm the value.

## **OVERHEAD RIGGING**

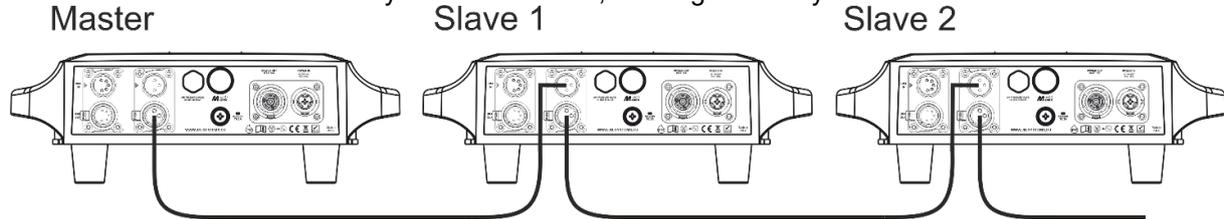
- **Important:** The installation must be carried out by qualified service personnel only. Improper installation can result in serious injuries and/or damage to property. Overhead rigging requires extensive experience! Working load limits should be respected, certified installation materials should be 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 10 times 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 such a way that whichever part of the installation can drop no more than 20cm, if the main attachment should fail.
- The device should be well attached; a free-swing mounting is dangerous and must not be considered!
- Don't cover any ventilation openings as this may result in overheating.
- The operator has to make sure that the safety-related 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 professional to be sure that safety is still optimal.

# ELECTRICAL INSTALLATION + ADDRESSING

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

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

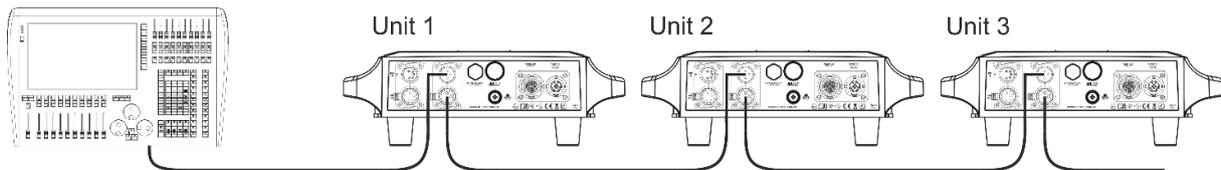
In this mode the units will show a synchronized show, working to the rhythm of the beat.



- Connect 2 to maximum 16 units together using good quality cables. Put the first unit in the chain in master mode (see Setup menu) and the other units as slaves (see Setup menu).
- Make sure that all units are connected to the mains.
- Done!

## Electrical installation 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.
- Make sure that all units are connected to the mains.
- Each light effect 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.



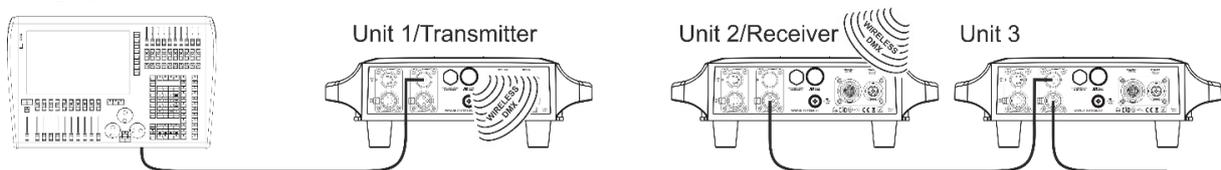
## Electrical installation with W-DMX:

To use the RIVAL SPOT with W-DMX you can use any Wireless Solutions WDMX G3 compatible transmitter. The fixture can also be used as an (alternative) DMX transmitter:

- Connect the fixture to a controller using a DMX-cable.
- In the setup menu: enable the W-DMX module and put the fixture in transmitter mode. The fixture is ready to send W-DMX.
- When all the receivers are set-up, press “create links” to pair the receiving fixtures to the transmitter

The fixture can also be used as an (alternative) W-DMX receiver:

- In the setup menu: enable the W-DMX module and put the fixture in receiver mode.
- In the W-DMX menu, press **Create link**. The fixture is ready to receive W-DMX
- DMX is automatically presented on the XLR connectors for easy daisy-chaining of fixtures that do not have W-DMX



# OPERATING INSTRUCTIONS

- Connect all units together. Refer to the chapter “Electrical installation for two or more units in DMX-mode” to learn how to do this.
- Connect all units to the mains and turn on the DMX controller.
- Since each unit has its own DMX-address, you can control them individually. Remember that each unit can use a different number DMX-channels, depending on the DMX-mode you have selected in the menu. See the different DMX charts:

DMX-CHART OF THE RIVAL SPOT:

5CH	17CH	20CH	VALUES	FUNCTION	REMARKS
1	-	-	000-255	Dimmer (0 - 100%)	
2	-	-	000-007	Open	
			008-037	Random strobe	
			038-067	Sound strobe	
			068-255	Strobe	<i>Strobe (slow -&gt; fast)</i>
3	-	-	0-10	Open	
			11-20	Color 1	
			21-30	Color 2	
			31-40	Color 3	
			41-50	Color 4	
			51-60	Color 5	
			61-70	Color 6	
			71-80	Color 7	
			81-90	Color 8	
			91-100	Color 9	
			101-110	Color 10	
4	-	-	111-255	Random color sound	
			000-007	No gobo	
			008-037	Gobo 1	
			038-067	Gobo 2	
			068-097	Gobo 3	
			098-127	Gobo 4	
			128-157	Gobo 5	
			158-187	Gobo 6	
			188-217	Gobo 7	
			218-247	Gobo 8	
5	-	-	248-255	Original gobos	
			000-007	Pan/Tilt hold (freeze)	
-	1	1	008-255	Pan/Tilt sound control	<i>Higher value = higher speed</i>
-	-	2	000-255	Pan	
-	-	3	000-255	Pan fine	
-	2	3	000-255	Tilt	
-	-	4	000-255	Tilt fine	
-	3	5	000-255	Pan/Tilt Speed	<i>Fast → slow</i>
-	4	6	000-015	No function	
			016-063	Show 1 / Floor 180°	
			064-127	Show 2 / Ceiling hung	
			128-191	Show 3 / Stage Floor	
-	-	-	192-255	Show 4 / Stage Hung	
-	5	7	0-7	No function	<i>PAN/TILT Macro's</i>
			8-15	Macro 1	
			16-23	Macro 2	
			24-31	Macro 3	
			32-39	Macro 4	
			40-47	Macro 5	
			48-55	Macro 6	
			56-63	Macro 7	
			64-71	Macro 8	
			72-79	Macro 9	
			80-87	Macro 10	
			88-95	Macro 11	
			96-103	Macro 12	
			104-111	Macro 13	
			112-119	Macro 14	
			120-127	Macro 15	
			128-135	Macro 16	
136-143	Macro 17				

			144-151	<b>Macro 18</b>	
			152-159	<b>Macro 19</b>	
			160-167	<b>Macro 20</b>	
			168-175	<b>Macro 21</b>	
			176-183	<b>Macro 22</b>	
			184-191	<b>Macro 23</b>	
			192-199	<b>Macro 24</b>	
			200-207	<b>Macro 25</b>	
			208-215	<b>Macro 26</b>	
			216-223	<b>Macro 27</b>	
			224-231	<b>Macro 28</b>	
			232-239	<b>Macro 29</b>	
			240-247	<b>Macro 30</b>	
			248-255	<b>Macro 31</b>	
-	6	8	000-255	<b>Speed Pan/Tilt Macro</b>	<i>Fast → slow</i>
			0-10	<b>Open</b>	
			11-15	<b>Color 1</b>	
			16-20	<b>Color 2</b>	
			21-25	<b>Color 3</b>	
			26-30	<b>Color 4</b>	
			31-35	<b>Color 5</b>	
			36-40	<b>Color 6</b>	
			41-45	<b>Color 7</b>	
			46-50	<b>Color 8</b>	
			51-55	<b>Color 9</b>	
			56-60	<b>Color 10</b>	
			61-127	<b>Color index</b>	
			128-189	<b>Spin CCW</b>	<i>Fast → slow</i>
			190-193	<b>Stop</b>	
			194-255	<b>Spin CW</b>	<i>Slow → fast</i>
			0-10	<b>Open</b>	
			11-15	<b>FIXED Gobo 1</b>	
			16-20	<b>FIXED Gobo 2</b>	
			21-25	<b>FIXED Gobo 3</b>	
			26-30	<b>FIXED Gobo 4</b>	
			31-35	<b>FIXED Gobo 5</b>	
			36-40	<b>FIXED Gobo 6</b>	
			41-45	<b>FIXED Gobo 7</b>	
			46-50	<b>FIXED Gobo 8</b>	
			51-60	<b>Shake FIXED Gobo 1</b>	
			61-70	<b>Shake FIXED Gobo 2</b>	
			71-80	<b>Shake FIXED Gobo 3</b>	
			81-90	<b>Shake FIXED Gobo 4</b>	
			91-100	<b>Shake FIXED Gobo 5</b>	
			101-110	<b>Shake FIXED Gobo 6</b>	
			111-120	<b>Shake FIXED Gobo 7</b>	
			121-127	<b>Shake FIXED Gobo 8</b>	
			128-190	<b>FIXED Gobo wheel rotation CCW</b>	<i>Fast → slow</i>
			191-192	<b>FIXED Gobo wheel rotation STOP</b>	
			193-255	<b>FIXED Gobo wheel rotation CW</b>	<i>Slow → fast</i>
			0-10	<b>Open</b>	
			11-15	<b>ROTATING Gobo 1</b>	
			16-20	<b>ROTATING Gobo 2</b>	
			21-25	<b>ROTATING Gobo 3</b>	
			26-30	<b>ROTATING Gobo 4</b>	
			31-35	<b>ROTATING Gobo 5</b>	
			36-40	<b>ROTATING Gobo 6</b>	
			41-45	<b>ROTATING Gobo 7</b>	
			46-50	<b>ROTATING Gobo 8</b>	

			51-60	Shake ROTATING Gobo 1	
			61-70	Shake ROTATING Gobo 2	
			71-80	Shake ROTATING Gobo 3	
			81-90	Shake ROTATING Gobo 4	
			91-100	Shake ROTATING Gobo 5	
			101-110	Shake ROTATING Gobo 6	
			111-120	Shake ROTATING Gobo 7	
			121-127	Shake ROTATING Gobo 8	
			128-190	ROT. Gobo wheel rotation CCW	<i>Fast → slow</i>
			191-192	ROT. Gobo wheel rotation STOP	
			193-255	ROT. Gobo wheel rotation CW	<i>Slow → fast</i>
-	10	12	0-127	ROT. Gobo rotation INDEX	<i>Indexing</i>
			128-190	ROT. Gobo rotation CCW	<i>Fast → slow</i>
			191-192	ROT. Gobo rotation STOP	
			193-255	ROT. Gobo rotation CW	<i>Slow → fast</i>
-	11	13	000	Zoom: Narrow	
			1-254	Zoom: Narrow-Wide	
			255	Zoom: Wide	
-	12	14	0-64	No function	
			65-127	Prism	
			128-255	Frost	
-	13	15	0-127	Prism rotation INDEX	<i>Indexing</i>
			128-190	Prism rotation CCW	<i>Fast → slow</i>
			191-192	Prism rotation STOP	
			193-255	Prism rotation CW	<i>Slow → fast</i>
-	14	16	0-255	Focus	
-	15	17	0-7	Shutter/strobe OFF	<i>no output</i>
			8-15	Open	<i>no strobe</i>
			16-131	Strobe	<i>Slow → fast</i>
			132-139	Open	<i>no strobe</i>
			140-181	Open/close	<i>Slow → fast</i>
			182-189	Open	<i>no strobe</i>
			190-231	Close/open	<i>Slow → fast</i>
			232-239	Open	<i>no strobe</i>
			240-247	Random strobe	
			248-255	Open	<i>no strobe</i>
-	16	18	0-255	Dimmer (0-100%)	
-	-	19	0-255	Dimmer fine	
-	17	20	0-69	No function	<i>Special functions</i>
			70-79	Pan/Tilt	<i>Blackout enabled</i>
			80-89	Pan/Tilt	<i>Blackout disabled</i>
			90-99	Color changing	<i>Blackout enabled</i>
			100-109	Color changing	<i>Blackout disabled</i>
			110-119	Gobo changing	<i>Blackout enabled</i>
			120-129	Gobo changing	<i>Blackout disabled</i>
			130-139	No function	
			140-149	Pan/Tilt RESET	
			150-159	Effect RESET	
			160-199	No function	
			200-209	RESET all functions	
			210-219	Pan/Tilt/Color/Gobo	<i>Blackout enabled</i>
			220-229	Pan/Tilt/Color/Gobo	<i>Blackout disabled</i>
			230-255	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 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.
- Housing, 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 keep the device from overheating, 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 conventional glass cleaning products.
  - Always dry the parts carefully.

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

## TESTING WATERPROOFNESS

Whenever a waterproof outdoor fixture is opened for internal cleaning, repair, or replacement of gobos, it is important to ensure that the fixture is still waterproof after closing.

After closing the fixture:

- Visually check the rubber seals for any damage and/or interruptions.
- Make sure seals are well placed in the designated recesses.
- All bolts must be tightened evenly across the entire surface.
- Bolts must be tightened firmly but not excessively to avoid damaging the rubber seals.

For absolute certainty, it is strongly recommended to perform an additional air leak pressure test using our BTI-IPTEST (order code: B09904):

- To do this, carefully follow the instructions in the BTI-IPTEST manual.
- This fixture is IP65 rated and should be tested following the IPX5 setting of 3-5kPa.

***Remark:*** to correctly test the fixture, you should be 100% sure that no more than 1 air valve was installed: check this before testing! If the product has more than 1 air valve, the other air valve(s) must be replaced by a "dummy" valve before starting the test. After the test, the dummy valve(s) must be replaced again.

# SPECIFICATIONS

## ENGLISH

JB Systems®, hereby declares that the equipment described in this manual complies with RED Directive 2014/53/EU. 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://jb-systems.eu/rival-spot>

## NEDERLANDS

Hierbij verklaart JB Systems®, dat de apparatuur beschreven in deze handleiding voldoet aan de richtlijn RED 2014/53/EU. 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://jb-systems.eu/nl/rival-spot>

## FRANCAIS

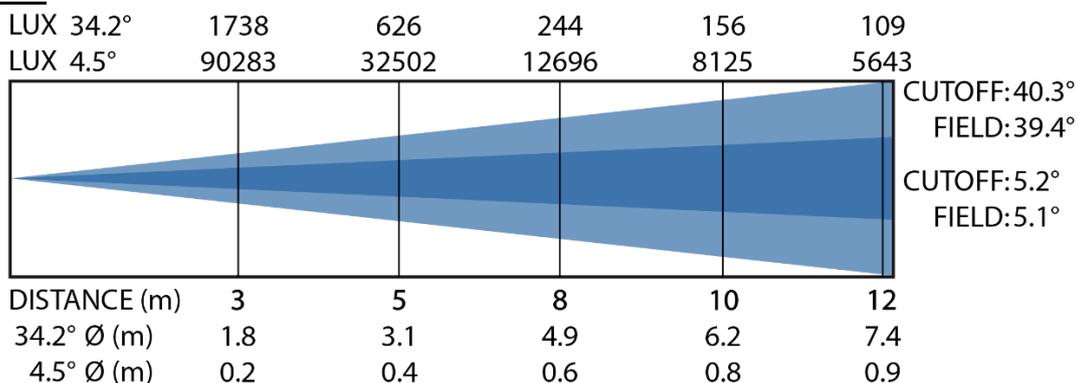
JB Systems®, déclare par la présente que l'équipement décrit dans ce manuel est conforme à la directive RED 2014/53/UE. Le texte complet de la déclaration de conformité UE, ainsi que la dernière version du manuel et les spécifications techniques sont disponibles à l'adresse Internet suivante (sous Manuel et téléchargements) : <https://jb-systems.eu/fr/rival-spot>

## DEUTSCH

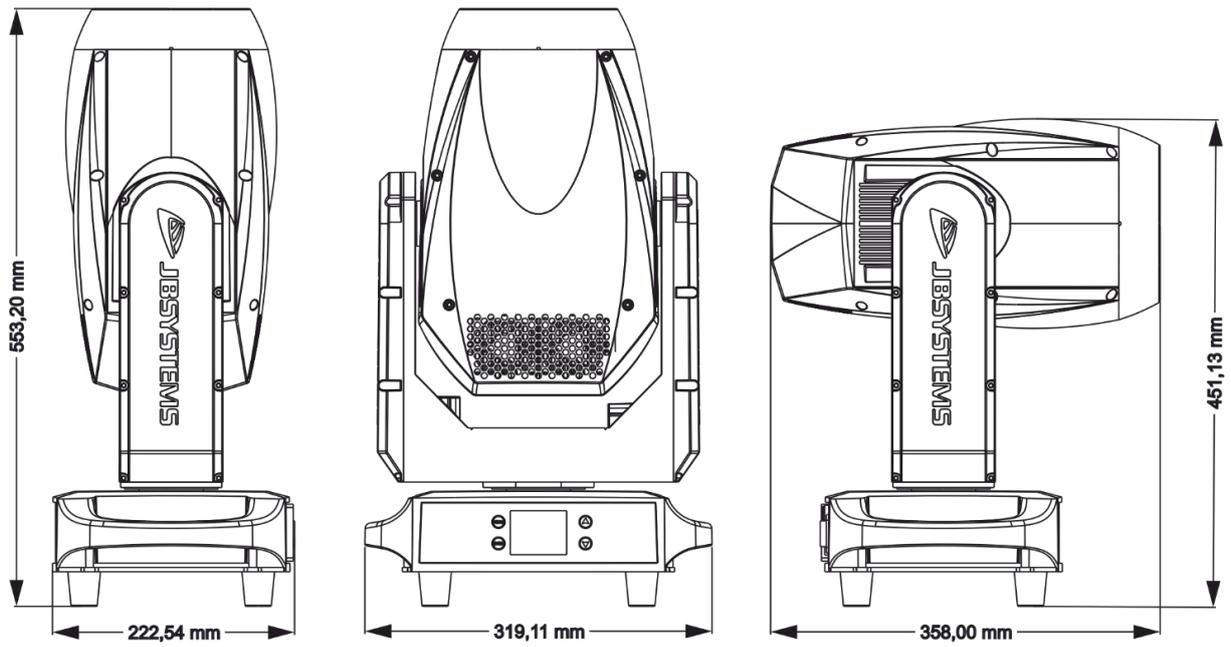
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<b>Power Supply:</b>	AC 100 - 240V, 50/60Hz
<b>Fuse:</b>	250V 6.3A slow blow (20mm glass)
<b>Power connections:</b>	Seetronic IP65 True1 compatible connector
<b>Power link:</b>	Max. 16A
<b>Carrier Frequency Range:</b>	2403.14 → 2482.08 MHz
<b>RF transmission power:</b>	3.49 dBm (2.23 mW)
<b>Power consumption:</b>	320 Watt
<b>Sound Control:</b>	Internal microphone
<b>DMX connections:</b>	3pin & 5pin XLR male / female
<b>DMX channels used:</b>	5, 17 & 20 channels
<b>Lamp:</b>	300W White LED engine
<b>Color wheel:</b>	10 colors + open
<b>Gobo wheel:</b>	8 fixed gobos + open
<b>Rotating Gobo wheel:</b>	8 rotating gobos + open
<b>IP-Rating:</b>	IP65
<b>Pan movement:</b>	540°
<b>Tilt movement:</b>	270°
<b>Operating temperature (T<sub>a</sub>):</b>	0°C to 40°C
<b>Size:</b>	55.3 x 22.2 x 31.9cm
<b>Weight:</b>	15.kg

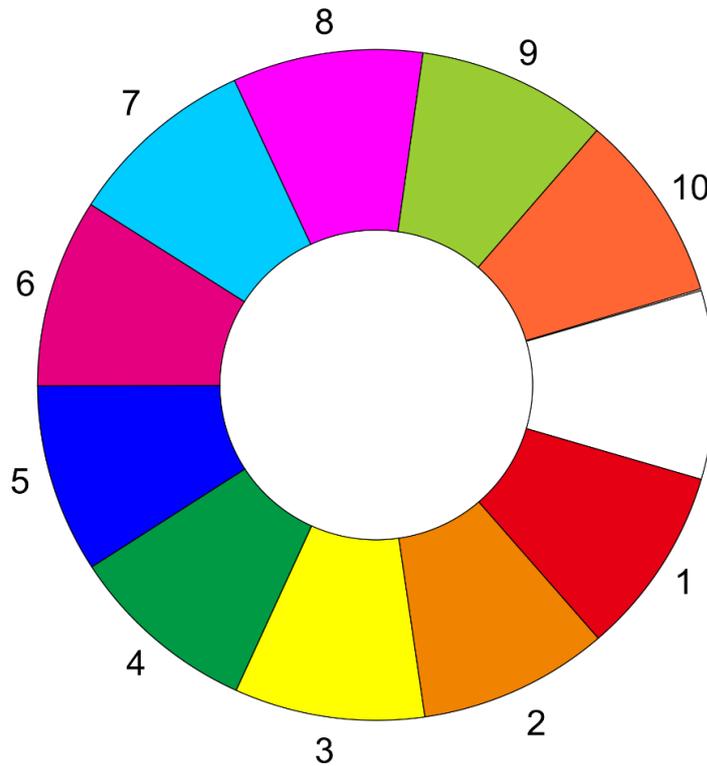
## LUX CHART



DIMENSIONS

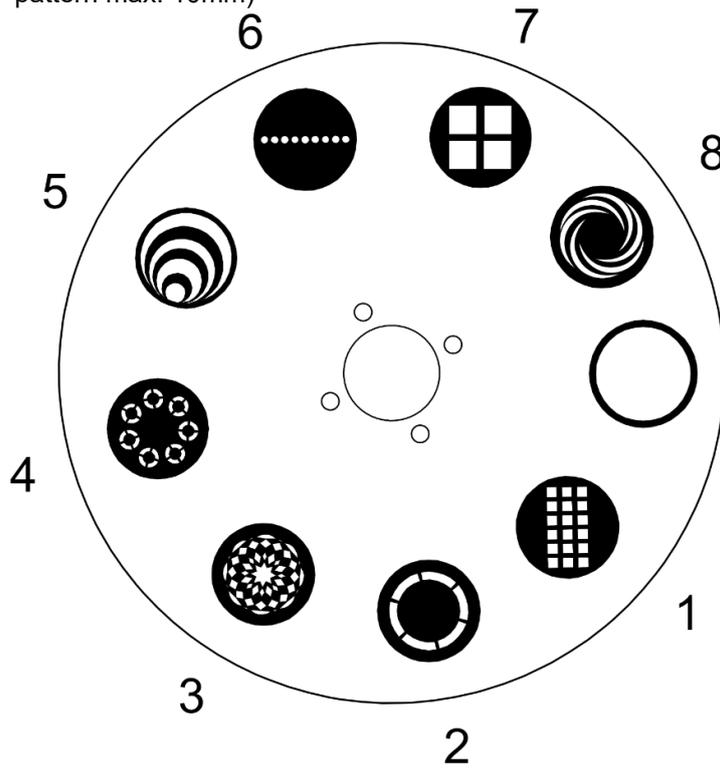


COLOR WHEEL

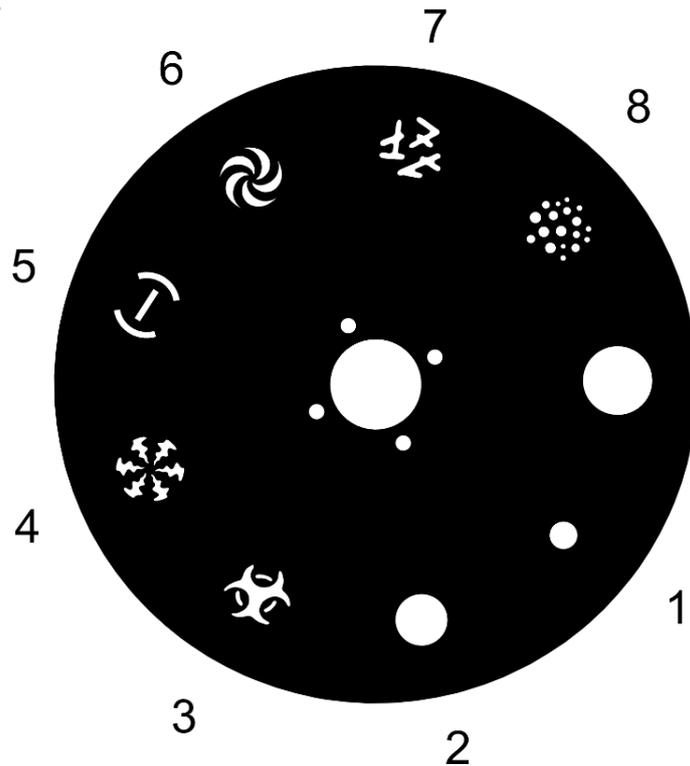


**ROTATING GOBO WHEEL**

(diameter gobo 16mm – pattern max. 10mm)



**STATIC GOBO WHEEL**

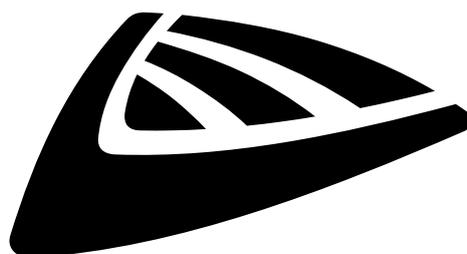


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**JB SYSTEMS**

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