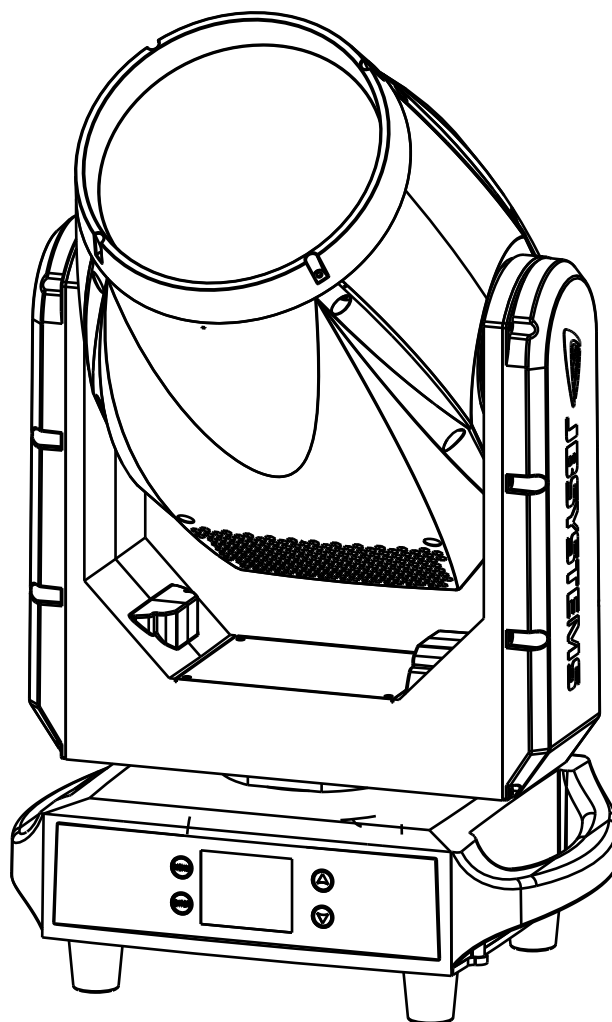


RIVAL BEAM

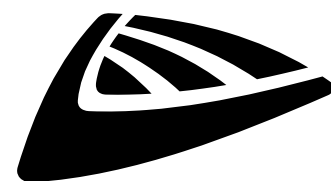


ENGLISH Operation Manual

Other languages can be downloaded from:
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 BEAM.
 - IP65 protection!
 - Upgraded 300W LED Power for increased output!
 - Very narrow 2.5° beam for maximum impact.
- STANDARD Wireless DMX on board, compatible with WDMX G4 !
- 14 colors + MULTI color rainbow effect
- 13 static gobos
- Two rotating and combinable prisms!
- DMX-controlled focus
- 0-100% dimming and different strobe effects
- 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
- Can work in wireless master/slave mode!
- Color LCD-display and lockable touch buttons for easy menu navigation
- 3pin/5pin XLR connectors for DMX in/output.
- PowerCON TRUE1 compatible in/out for easy daisy-chaining

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 BEAM 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

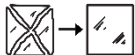
This unit is fully protected against dust ingress and is also protected against water jets from all directions.



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.

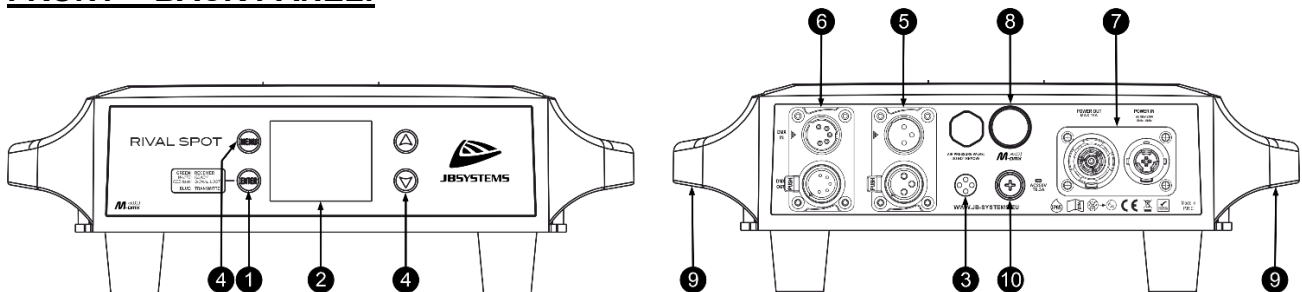
- To protect the environment, please try to recycle the packing material as much as possible.
- To avoid condensation forming inside, allow the unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condensation sometimes prevents the unit from working at full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

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 Invers	Yes/No
	Tilt Inverse	Yes/No
	P/T Feedback	Yes/No
	Dimmer Curve	Liner
		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	0x2122100Bxxxx
	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

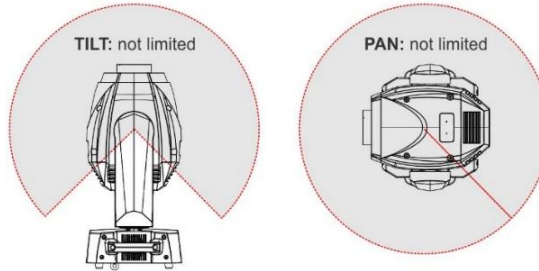
Show Chase

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

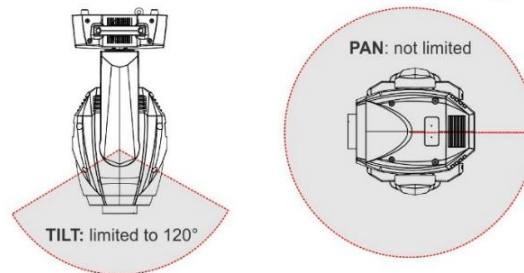
- Press the MENU button to access the different functions in the menu.
- Press the ▲/▼ buttons until the desired function is showing on the display.
- Press the ENTER button to select the desired show mode.
 - **Floor 180°**
 - **Ceiling hung**
 - **Stage floor**
 - **Stage hung**

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

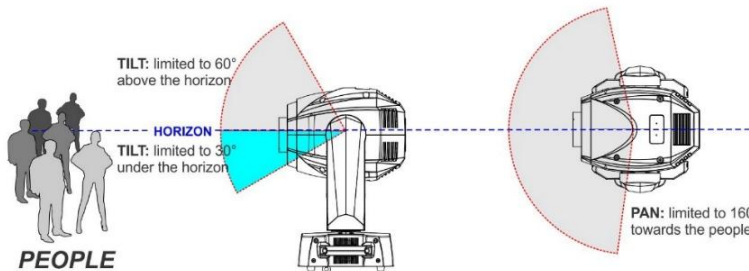
SHOW1 / Floor 180° : used when the fixture is placed on the floor.



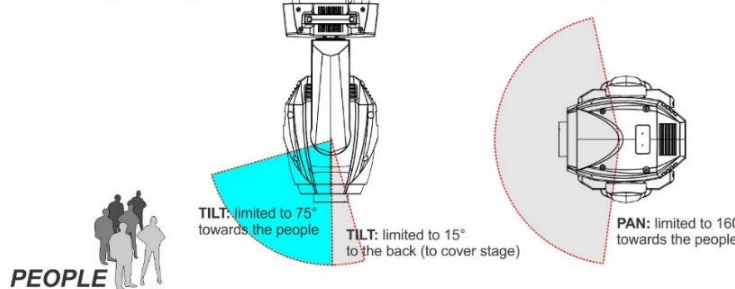
SHOW2 / CeilingHung : used when the fixture is fixed under the ceiling.



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.

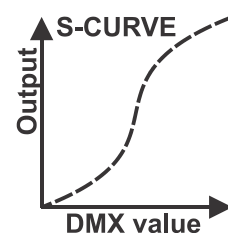
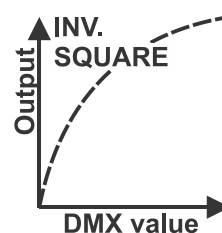
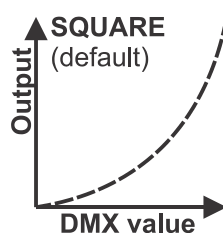
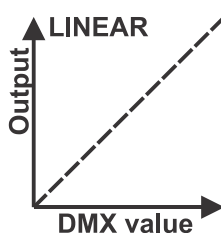
P/T Feedback

- **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

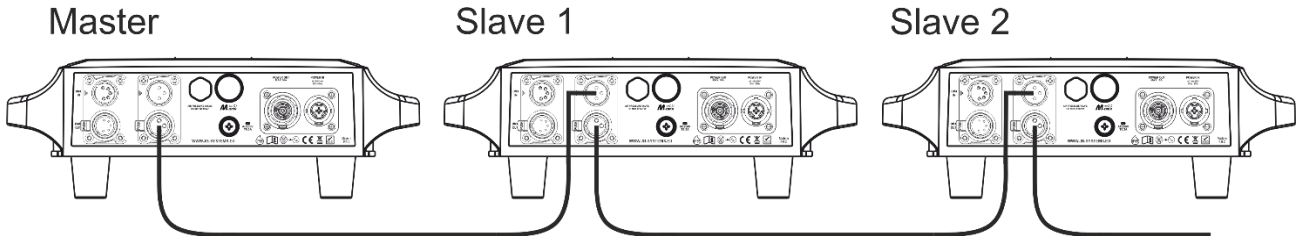
- **Important:** The installation must be carried out by qualified service personnel only. Improper installation can result in serious injuries and/or damage to property. Overhead rigging requires extensive experience! Working load limits should be respected, certified installation materials should be 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:

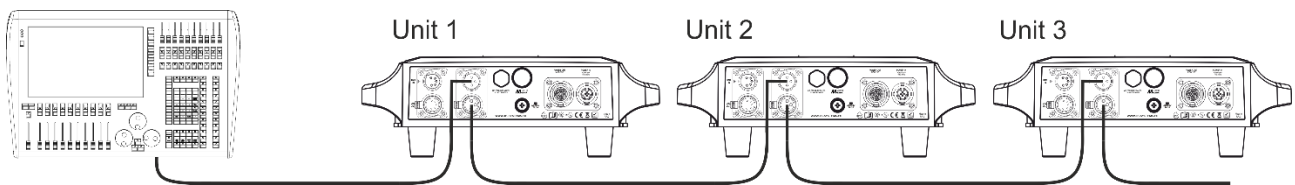
In this mode the units will show a synchronized show, working to the rhythm of the beat.



- 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.



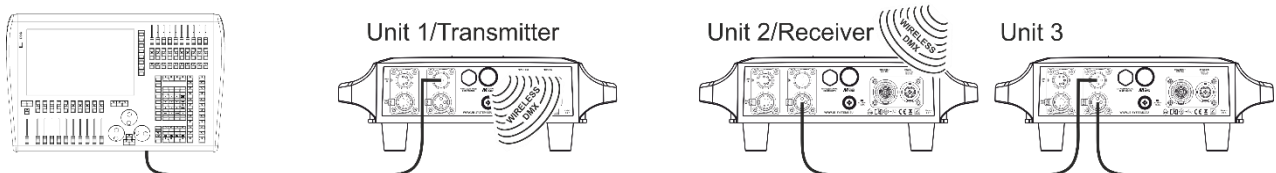
Electrical installation with W-DMX:

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 BEAM:

5CH	21CH	17CH	Function	Values	Remarks
1	-	-	Dimmer	000-255	
2	-	-	Shutter	000-007	Open
				008-037	Random strobe
				038-067	Sound strobe
				068-255	Strobe
3	-	-	Color	000-014	Open
				015-029	Color 1
				030-404	Color 2
				045-059	Color 3
				060-074	Color 4
				075-089	Color 5
				090-104	Color 6
				105-119	Color 7
				120-134	Color 8
				135-149	Color 9
				150-164	Color 10
				165-179	Color 11
				180-194	Color 12
				195-209	Color 13
210-229	Color 14				
4	-	-	Gobo	000-009	Open
				010-024	Gobo 1
				025-039	Gobo 2
				040-054	Gobo 3
				055-069	Gobo 4
				070-084	Gobo 5
				085-099	Gobo 6
				100-114	Gobo 7
				115-129	Gobo 8
				130-149	Gobo 9
				150-164	Gobo 10
				165-179	Gobo 11
				180-194	Gobo 12
				195-209	Gobo 13
210-255	Random gobo				
5	-	-	Pan/Tilt	000-007	Pan/Tilt hold (freeze)
				008-255	Pan/Tilt sound control
-	1	1	Pan	000-255	
-	2	-	Pan fine	000-255	
-	3	2	tilt	000-255	
-	4	-	Tilt fine	000-255	
-	5	3	P/T speed	000-255	<i>Fast->slow</i>
-	6	4	Show	000-015	No function
				016-063	Show 1
				064-127	Show 2
				128-191	Show 3
				192-255	Show 4

-	7	5	P/T macro	000-007	No function	
				08-015	Macro 1	
				016-023	Macro 2	
				024-255	Macros 3-31	
-	8	6	P/T macro speed	000-255		<i>Fast-> slow</i>
-	9	7	Color	000-009	Open	
				10-14	Open/Color1	
				15-19	Color1	
				20-24	Color1/Color2	
				25-29	Color2	
				30-34	Color2/Color3	
				35-39	Color3	
				40-44	Color3/Color4	
				45-49	Color4	
				50-54	Color4/Color5	
				55-59	Color5	
				60-64	Color5/Color6	
				65-69	Color6	
				70-74	Color6/Color7	
				75-79	Color7	
				80-84	Color7/Color8	
				85-89	Color8	
				90-94	Color8/Color9	
				95-99	Color9	
				100-104	Color9/Color10	
				105-109	Color10	
				110-114	Color10/Color11	
				115-119	Color11	
				120-124	Color11/Color12	
				125-129	Color12	
				130-134	Color12/Color13	
				135-139	Color13	
140-144	Color13/Color14					
145-149	Color14					
150-154	Color14/White					
155-198	Spin CW fast-slow					
199-202	Stop					
203-255	Spin CCW Slow-fast					
-	10	8	Static gobo	0-9	Open	
				10-14	Gobo 1	
				15-19	Gobo 2	
				20-24	Gobo 3	
				25-29	Gobo 4	
				30-34	Gobo 5	
				35-39	Gobo 6	
				40-44	Gobo 7	
				45-49	Gobo 8	
				50-54	Gobo 9	
				55-59	Gobo 10	
				60-64	Gobo 11	
				65-69	Gobo 12	
				70-74	Gobo 13	
				75-79	Shake gobo 1	
				80-84	Shake gobo 2	
				85-89	Shake gobo 3	
90-94	Shake gobo 4					
95-99	Shake gobo 5					
100-104	Shake gobo 6					
105-109	Shake gobo 7					

				110-114	Shake gobo 8	
				115-119	Shake gobo 9	
				120-124	Shake gobo 10	
				125-129	Shake gobo 11	
				130-134	Shake gobo 12	
				135-139	Shake gobo 13	
				140-198	Spin CW fast-slow	
				199-202	Stop	
				203-255	Spin CCW Slow-fast	
-	11	9	Frost	0-63	Open	
				64-127	Frost	
				128-255	Multi-color	
-	12	10	Prism 1	0-7	Open	
				8-255	Prism 1	
-	13	11	Prism 1 rotation	0-127	Index	
				128-189	CW rotation Fast-slow	
				190-193	stop	
				194-255	CCW rotation slow-fast	
-	14	12	Prism 2	0-7	Open	
				8-255	Prism 2	
-	15	13	Prism 2 rotation	0-127	Index	
				128-189	CW rotation Fast-slow	
				190-193	stop	
				194-255	CCW rotation slow-fast	
-	16	14	Focus	0-255		
-	17	-	Focus fine	0-255		
-	18	15	shutter	0-7	Closed	
				8-15	Open	
				16-131	Strobe	
				132-139	Open	
				140-181	Close pulse	
				182-189	Open	
				190--231	Open pulse	
				232-239	open	
				240-247	random strobe	
				248-255	Open	
-	19	16	Dimmer	0-255		
-	20	-	Dimmer fine	0-255		
-	21	17	Control	000-069	No function	Special functions
				070-079	Pan/Tilt	Blackout enabled
				080-089	Pan/Tilt	Blackout disabled
				090-099	Color changing	Blackout enabled
				100-109	Color changing	Blackout disabled
				110-119	Gobo changing	Blackout enabled
				120-129	Gobo changing	Blackout disabled
				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	Blackout enabled
				220-229	Pan/Tilt/Color/Gobo	Blackout disabled
				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-beam>

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-beam>

FRANCAIS

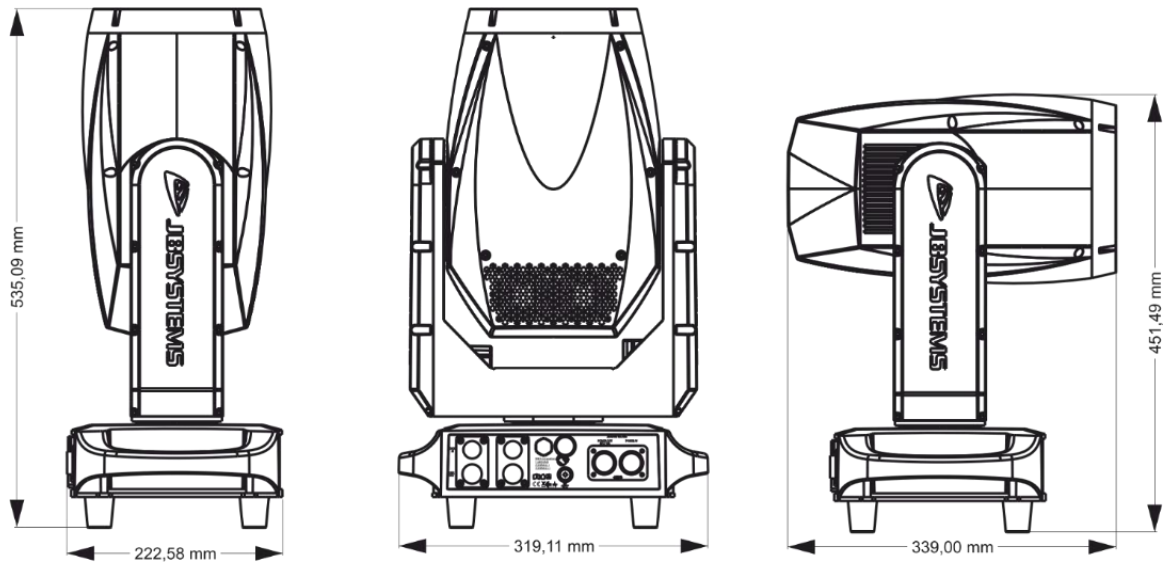
JB Systems®, déclare par la présente que l'équipement décrit dans ce manuel est conforme à la directive RED 2014/53/UE. Le texte complet de la déclaration de conformité UE, ainsi que la dernière version du manuel et les spécifications techniques sont disponibles à l'adresse Internet suivante (sous Manuel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

DEUTSCH

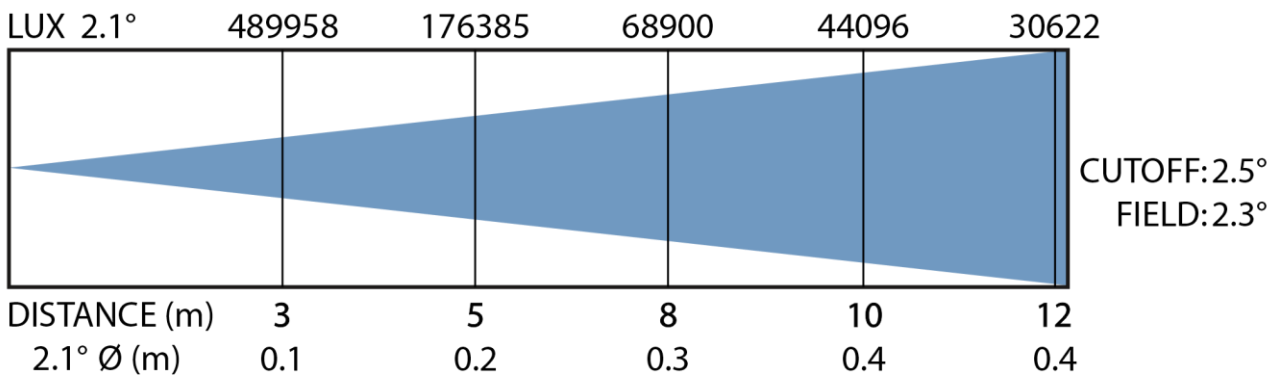
Hiermit erklärt JB Systems®, dass die in dieser Anleitung beschriebene Ausrüstung der RED Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung sowie die neuesten Versionen der Anleitung und der technischen Spezifikationen sind unter folgender Internetadresse verfügbar (unter Anleitung und Downloads): <https://jb-systems.eu/de/rival-beam>

Power Supply:	AC 100 - 240V, 50/60Hz
Fuse:	250V 6.3A slow blow (20mm glass)
Power connections:	Seetronic IP65 True1 compatible connector
Power link:	Max. 16A
Carrier Frequency Range:	2403.14 → 2482.08 MHz
RF transmission power:	3.49 dBm (2.23 mW)
Power consumption:	320 Watt
Sound Control:	Internal microphone
DMX connections:	3pin & 5pin XLR male / female
DMX channels used:	5, 17 & 21 channels
Lamp:	300W White LED engine
Color wheel:	14 colors + open
Gobo wheel:	13 fixed gobos + open
IP-Rating:	IP65
Pan movement:	540°
Tilt movement:	270°
Operating temperature (T_a):	0°C to 40°C
Size:	53.5 x 22.2 x 31.9cm
Weight:	15.7kg

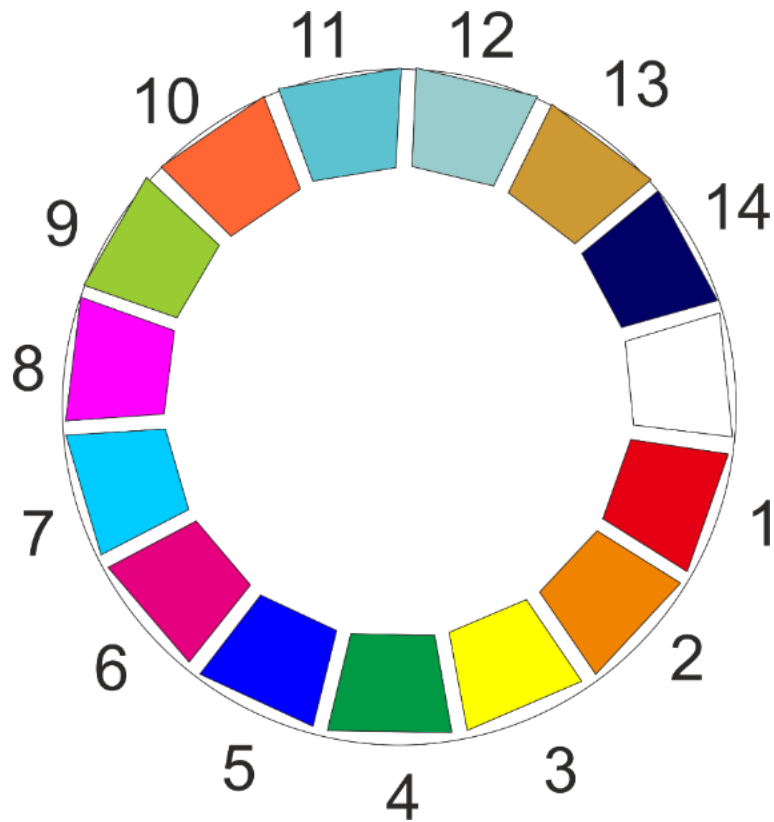
DIMENSIONS



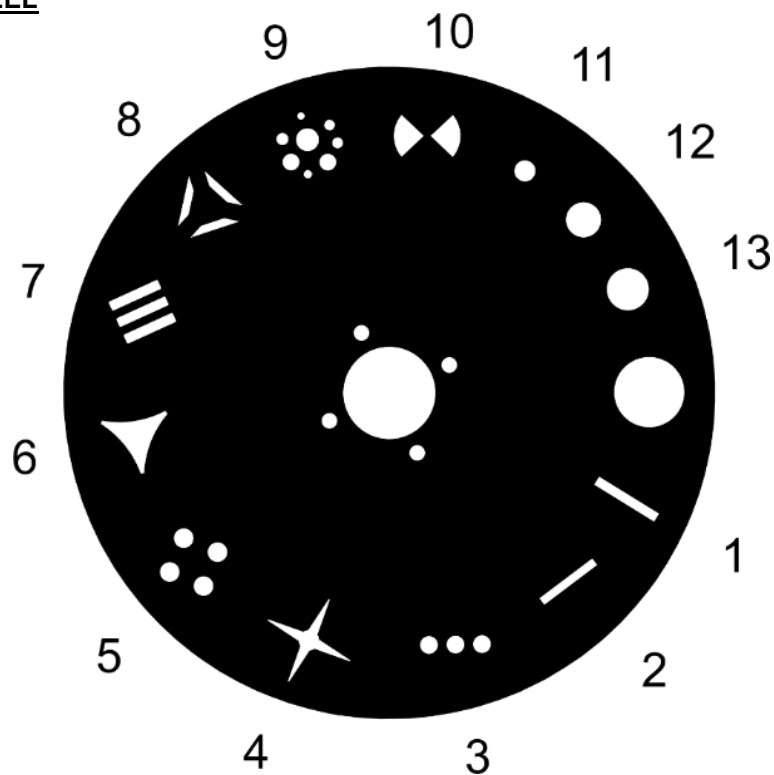
LUX CHART



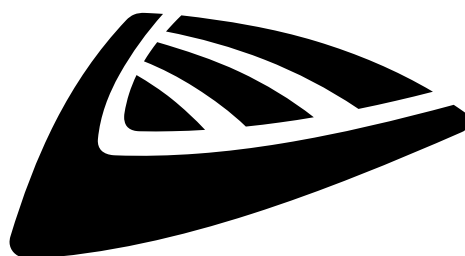
COLOR WHEEL



STATIC GOBO WHEEL



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JB SYSTEMS

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