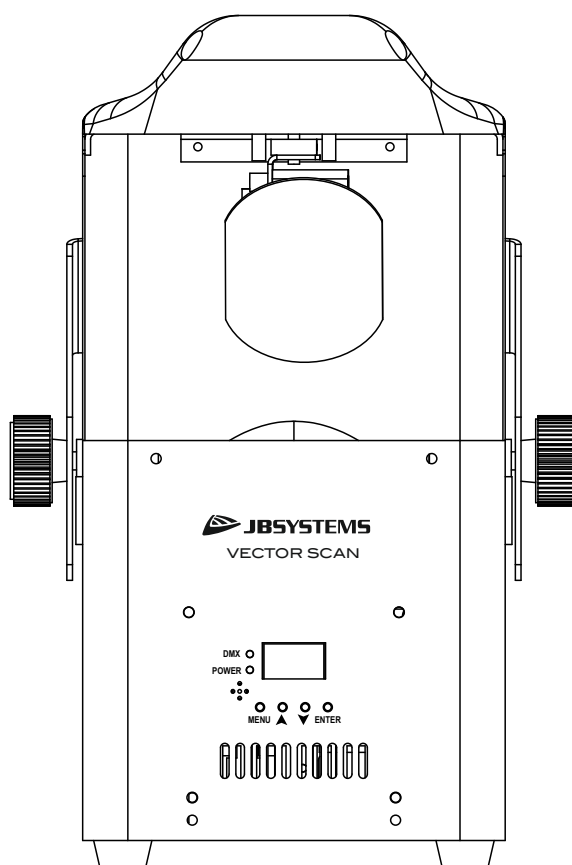


# VECTOR SCAN

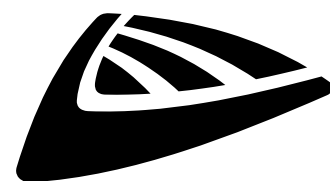


## ENGLISH Operation Manual

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



*Version: 1.0*



**JBSYSTEMS**



### **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 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**

- Scanner with 100W LED
- Excellent for bars, pubs, mobile DJ's, rental,...
- Focus controlled by DMX
- 3 facet prism
- 0-100% dimming and different strobe effects
- Gobo wheel with 7 rotating gobo's + open
- Color wheel with 8 colors + open
- Excellent built-in programs for wonderful, ever changing, light shows.
- Multiple working modes:
  - DMX-control: via 5, 8 or 14 channels
  - Standalone: sound activated with internal mic
  - Master/slave: Wonderful synchronized shows in standalone mode
- Prepared for wireless DMX: just plug-in an optional WTR-DMX DONGLE ! (Briteq® order code: B04645)
- OLED-display for easy menu navigation
- 3p 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:

- VECTOR SCAN unit
- Powercon® 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 to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.



This symbol means: indoor use only



This symbol means: Read instructions

**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 prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- To avoid condensation to be formed inside, allow the unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condense sometimes prevents the unit from working at full performance or may even cause damages.
- This unit is for indoor use only.
- Don't place metal objects or spill liquid inside the unit. Electric shock or malfunction may result. If a foreign object enters the unit, immediately disconnect the mains power.
- Locate the fixture in a well ventilated spot, away from any flammable materials and/or liquids. The fixture must be fixed at least 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, its service agent or similarly qualified persons in order to avoid a hazard.
- Never let the power-cord come into contact with other cables!
- This fixture must be earthed 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.

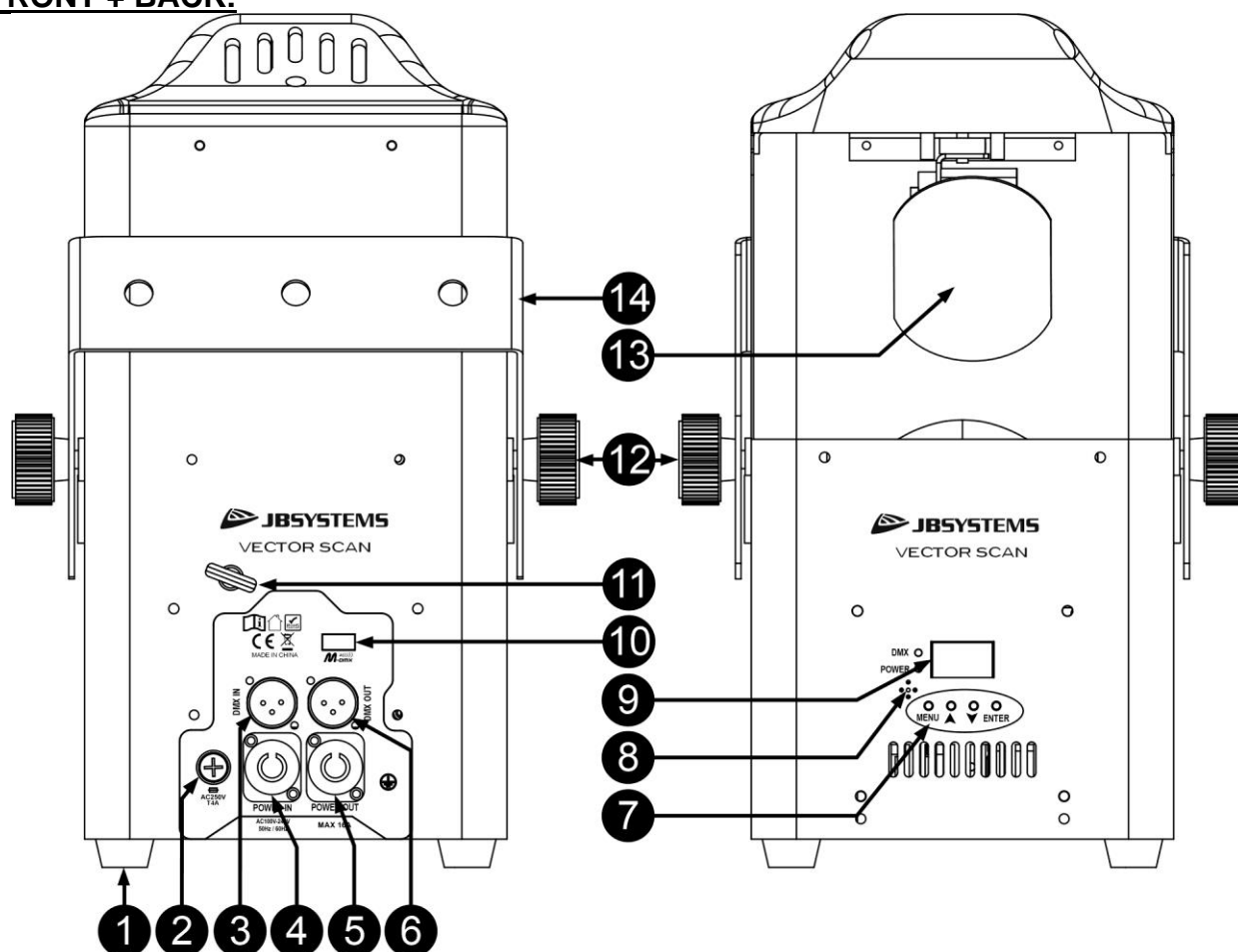
**Important:** Never look directly into the light source! Don't use the effect in the presence of persons suffering from epilepsy.

## OVERHEAD RIGGING

- **Important:** The installation must be carried out by qualified service personal only. Improper installation can result in serious injuries and/or damage to property. Overhead rigging requires extensive experience! Working load limits should be respected, certified installation materials should be used, the installed device should be inspected regularly for safety.
- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- Locate the fixture in a well ventilated spot, far away from any flammable materials and/or liquids. The fixture must be fixed **at least 50cm** from surrounding walls.
- The device should be installed out of reach of people and outside areas where persons may walk by or be seated.
- Before rigging make sure that the installation area can hold a minimum point load of 10times the device's weight.
- Always use a certified safety cable that can hold 12 times the weight of the device when installing the unit. This secondary safety attachment should be installed in a way that no part of the installation can drop more than 20cm if the main attachment fails.
- The device should be well fixed; a free-swinging mounting is dangerous and may not be considered!
- Don't cover any ventilation openings as this may result in overheating.
- The operator 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.

## HOW TO SET UP THE UNIT

### FRONT + BACK:



1. Rubber foot
2. Fuse holder

3. **DMX IN:** 3p XLR Male connector receives DMX data from a console or use in Master/slave mode
4. **POWER IN:** Connect the mains input cable here.
5. **POWER OUT:** used to daisy chain the power to several other fixtures. Always pay attention to the maximum load while adding fixtures! Special combi cables (power + DMX XLR-cables) are available: see our website!
6. **DMX OUT:** 3p XLR Female connector to connect other projectors or for the use in Master/slave mode.
7. **DISPLAY MODE BUTTONS:**
  - ▼ button : press this button to go down in the menu
  - ▲ button : press this button to go up in the menu
  - **ENTER:** press this button to confirm the selected function in the menu
  - **MENU:** press this button to go back to the main menu or to leave submenus.
8. Microphone for sound mode.
9. **DISPLAY:** shows the information on the different modes and functions.
10. **M-DMX INPUT:** Please note that this USB-connector is NOT used for updates or to connect the unit to a PC! Instead this USB-connector makes it very easy to add wireless DMX to the unit! Just add the (optional) WTR-DMX DONGLE from BRITEQ® and you will get wireless DMX! Moreover you will be able to connect other DMX-controlled equipment to the DMX-output so you can share the wireless DMX function with all connected units! No extra settings to be made in the setup menu, just follow the procedure in the user manual supplied with the WTR-DMX DONGLE from BRITEQ®. *The separate WTR-DMX DONGLE is available from WWW.BRITEQ-LIGHTING.COM (order code: B04645)*
11. Safety eye
12. Knob to fix the hanging bracket
13. Mirror
14. Hanging bracket with M12 holes

## SETUP MENU:

- This is the list of all the functions in the fixture.
- 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
<b>DMX Functions</b>	DMX Address	001 - 512
	DMX Channel	5CH
		8CH
		14CH
	No DMX	Sound
		Freeze
		Blackout
<b>Show Settings</b>	Show Mode	show 1
		show 2
		show 3
		show 4
	Slave Mode	Slave 1
		Slave 2
	Sound Trigger	on
		off
	Sound Sense	000-100
<b>Fixture Settings</b>	Pan Inverse	No
		Yes
	Tilt Inverse	No
		Yes

	Focus	000-255
Display Settings	Display Inverse	No
		Yes
	Backlight Switch	Off
		On
	Temperature Unit	°C
		°F
Fixture Information	Fixture use time	xxx hrs
	Software version	Vx.xx
Reset	Pan/Tilt	No
		Yes
	Effect	No
		Yes
	All	No
		Yes
Special Function	Factory Setting	No
		Yes
	Calibration	Password:000-255
		All To Origin
		Pan
		Tilt
		Spot Color
		Gobo
		Focus
		Prism

### 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 Functions > 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:** Control on Pan/Tilt, Color, Gobo, Strobe and dimmer
  - **8 CH mode:** Control on Pan/Tilt, Strobe, dimmer, focus and auto modes
  - **14 CH mode:** Full DMX-control on all functions.
- Once the correct option shows on the display, press the ENTER button to confirm.

### DMX Functions > 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.

### Show Settings > Show Mode

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.
  - show 1
  - show 2
  - show 3
  - show 4
- Once the right mode is shown on the display, press the ENTER button to confirm.

### Show Settings > 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:
  - **Slave 1:** the slave operates in complete sync with the master.
  - **Slave 2:** the slave operates in the opposite mode (Pan/Tilt) as compared with the master
- Once the correct option shows on the display, press the ENTER button to confirm.

### Show Settings > 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:

### Show Settings > 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.

### Fixture Settings > 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.



**Fixture Settings > Focus**

**Used to set the focus for a fixed distance. (works only in Show 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: you can select 5m, 10 or 25m distance.
- Use ▲/▼ buttons to selected the desired dimming speed.
- Press the ENTER button to confirm.

**Display Settings > Display Inverse**

**Used to turn the display over 180°. Yes = display is upside-down.**

- 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.

**Display Settings > 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.

**Display Settings > 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 Info > 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.

**Fixture Info > Software 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 version in the projector: V1.19

**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 and select "Yes" to start resetting Pan/Tilt functions.

**Reset > 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 and select "Yes" to start resetting the effect functions.

### **Reset > 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 and select "Yes" 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 > Calibration**

Used to set the offset of different functions in the scanner.

- 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>Calibration
- Put in the password "018" to access the hidden offset menu by using the ▲/▼ buttons.
- Press the ENTER button to select the menu.
- In the menu these parameters can be modified from -128 to +127 :
  - DEFAULT
  - PAN
  - TILT
  - COLOR
  - GOBO
  - FOCUS
  - PRISM

## **ELECTRICAL INSTALLATION + ADDRESSING**



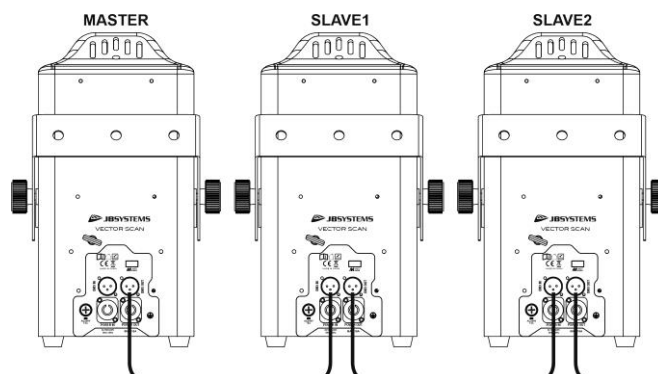
**Important:** The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.

### **Electrical installation for 1 standalone unit:**

- Just insert the mains cable. The unit starts working immediately in stand-alone mode.

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

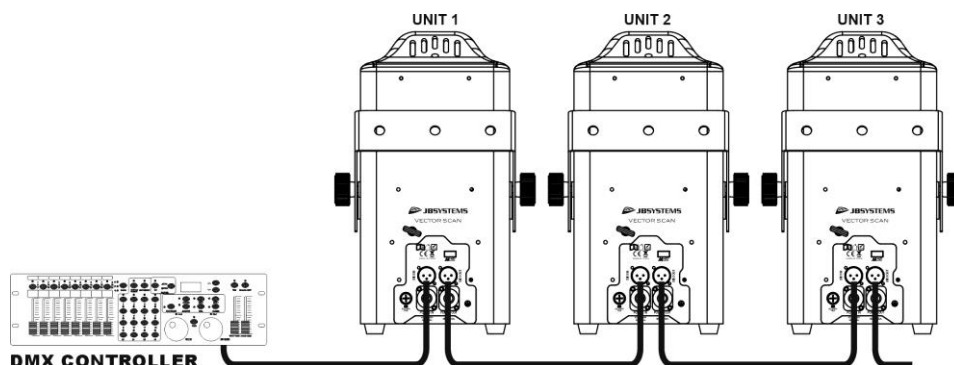
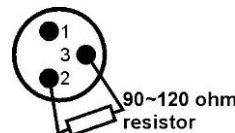
In this mode the units will show a synchronized show, working to the rhythm of the beat.



- Connect 2 to maximum 16 units together using good quality DMX cables. Put the first unit in the chain in show or sound 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 DMX cable.
- Both XLR-3pin and XLR-5pin connectors are used, however XLR-3pin is more popular because these cables are compatible with balanced audio cables.  
Pin layout XLR-3pin: Pin1 = GND ~ Pin2 = Negative signal (-) ~ Pin3 = Positive signal (+)
- To prevent strange behavior of the light effects, due to interferences, you must use a 90Ω to 120Ω terminator at the end of the chain. Never use Y-splitter cables, this simply won't work!
- Make sure that all units are connected to the mains.
- Each 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.



### HOW TO SET THE RIGHT STARTING ADDRESS:

Refer to the setup menu to learn how to set the starting address on this unit. The starting address of each unit is very important. Unfortunately it is impossible to tell you in this user manual which starting addresses you have to set because this completely depends on the controller you will use, the number of fixtures and their number of DMX channel they use.

### DMX-CONFIGURATION OF THE VECTOR SCAN IN 5, 8 AND 14CH MODE:

#### 5 CHANNEL MODE :

DMX Channel	DMX-value	function	remarks
1	000-255	Dimmer (0 - 100%)	
2	000-007	Open	
	008-037	Random strobe	
	038-067	Sound strobe	
	068-255	Strobe	Strobe (slow -> fast)
3	000-004	Open(White)	
	005-012	White/Color1	
	013-020	Color1	
	021-028	Color1/Color2	
	029-036	Color2	
	037-044	Color2/Color3	
	045-052	Color3	
	053-060	Color3/Color4	
	061-068	Color4	
	069-076	Color4/Color5	
	077-084	Color5	
	085-092	Color5/Color6	

	093-100	Color6	
	101-108	Color6/Color7	
	109-116	Color7	
	117-124	Color7/Color8	
	125-132	Color8	
	133-139	Open(White)	
	140-195	Forward rainbow effect from fast to slow	
	196-199	Rotation stop	
	200-255	Backward rainbow effect from slow to fast	
4	000-007	Open(White)	
	008-019	Gobo1	
	020-031	Gobo2	
	032-043	Gobo3	
	044-055	Gobo4	
	056-067	Gobo5	
	068-071	Gobo6	
	072-079	Gobo7	
	080-088	Gobo1 Shaking	
	089-097	Gobo2 Shaking	
	098-106	Gobo3 Shaking	
	107-115	Gobo4 Shaking	
	116-124	Gobo5 Shaking	
	125-129	Gobo6 Shaking	
	130-133	Gobo7 Shaking	
	134-194	Forward rainbow effect from fast to slow	
	195-255	Backward rainbow effect from slow to fast	
5	000-007	HOLD (Freeze)	
	008-255	Pan/Tilt sound control	

8 - 14 CHANNEL MODE :

8CH	14CH	DMX Value	Function
1	1	000-255	Pan
	2	000-255	Pan fine
2	3	000-255	Tilt
	4	000-255	Tilt fine
3	5	000-255	P/T Speed
4	6	000-255	Dimmer
5	7	000-004	Strobe open
		005-250	Strobe from slow to fast

		251-255	Strobe open
		000-004	Open(White)
		005-012	White/Color1
		013-020	Color1
		021-028	Color1/Color2
		029-036	Color2
		037-044	Color2/Color3
		045-052	Color3
		053-060	Color3/Color4
		061-068	Color4
		069-076	Color4/Color5
	8	077-084	Color5
		085-092	Color5/Color6
		093-100	Color6
		101-108	Color6/Color7
		109-116	Color7
		117-124	Color7/Color8
		125-132	Color8
		133-139	Open(White)
		140-195	Forward rainbow effect from fast to slow
		196-199	Rotation stop
		200-255	Backward rainbow effect from slow to fast
		000-007	Open(White)
		008-019	Gobo1
		020-031	Gobo2
		032-043	Gobo3
		044-055	Gobo4
		056-067	Gobo5
		068-071	Gobo6
		072-079	Gobo7
	9	080-088	Gobo1 Shaking
		089-097	Gobo2 Shaking
		098-106	Gobo3 Shaking
		107-115	Gobo4 Shaking
		116-124	Gobo5 Shaking
		125-129	Gobo6 Shaking
		130-133	Gobo7 Shaking
		134-194	Forward rainbow effect from fast to slow
		195-255	Backward rainbow effect from slow to fast
		000-009	Stop
	10	010-129	Forward Gobo Rotation from fast to slow
		130-134	Stop
		135-255	Backward Gobo Rotation from slow to fast
6	11	000-255	Focus
	12	000-007	Prism Off

		008-255	Prism On
7	13	000-010	No Function
		011-020	Auto Play 1
		021-040	Auto Play 2
		041-050	Auto Play 3
		051-070	Auto Play 4
		071-080	Auto Play 5
		081-100	Auto Play 6
		101-110	Auto Play 7
		111-130	Auto Play 8
		131-150	Auto Play 9
		151-160	Auto Play 10
		161-170	Auto Play 11
		171-180	Auto Play 12
		181-255	Auto Play to Sound
8	14	000-020	No Function
		021-030	X/Y auto run 1
		031-040	X/Y auto run 2
		041-050	X/Y auto run 3
		051-060	X/Y auto run 4
		061-070	X/Y auto run 5
		071-080	X/Y auto run 6
		081-090	X/Y auto run 7
		091-230	X/Y Sound Control
		231-240	RESET(10S)
		241-255	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 is cooled down.

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

- All screws used for installing the device and any of its parts should be tightly fastened and may not be corroded.
- Housings, fixations and installations spots (ceiling, truss, suspensions) should be totally free from any deformation.
- When an optical lens is visibly damaged due to cracks or deep scratches, it must be replaced.
- The mains cables must be in impeccable condition and should be replaced immediately when even a small problem is detected.
- In order to protect the device from overheat the cooling fans (if any) and ventilation openings should be cleaned monthly.
- The interior of the device should be cleaned annually using a vacuum cleaner or air-jet.
- The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics.
  - Clean with a soft cloth using normal glass cleaning products.
  - Always dry the parts carefully.
  - Clean the external optics at least once every 30 days.
  - Clean the internal optics at least every 90 days.

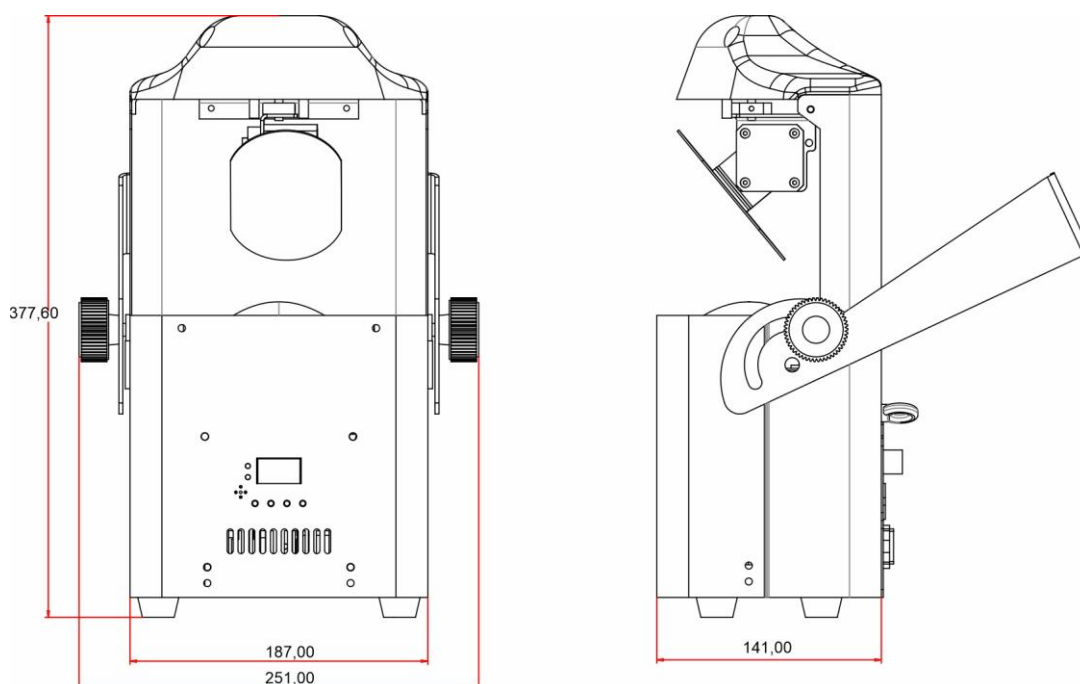
**Attention: We strongly recommend internal cleaning to be carried out by qualified personnel!**

## 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>	AC 100 - 240V, 50/60Hz
<b>Power consumption:</b>	130 Watt (Max.)
<b>Fuse:</b>	250V 4A Slow (20mm glass)
<b>Power connections:</b>	ProCon - 10A
<b>DMX connections:</b>	3pin-XLR male / female
<b>DMX channels used:</b>	5ch, 8ch, 14ch
<b>Lamp:</b>	100W LED
<b>Color wheel:</b>	8 colors + open
<b>Rotating Gobo wheel:</b>	7 rotating gobos + open
<b>IP-Rating:</b>	IP20
<b>Pan movement:</b>	160°
<b>Tilt movement:</b>	50°
<b>Beam Angle:</b>	18°
<b>Operating temperature (T<sub>a</sub>):</b>	0°C to 40°C
<b>Size:</b>	25,1x14,1x37,8cm
<b>Weight:</b>	5,5 kg

## DIMENSIONS



Every information is subject to change without prior notice

You can download the latest version of this user manual on our website: [www.jb-systems.eu](http://www.jb-systems.eu)



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