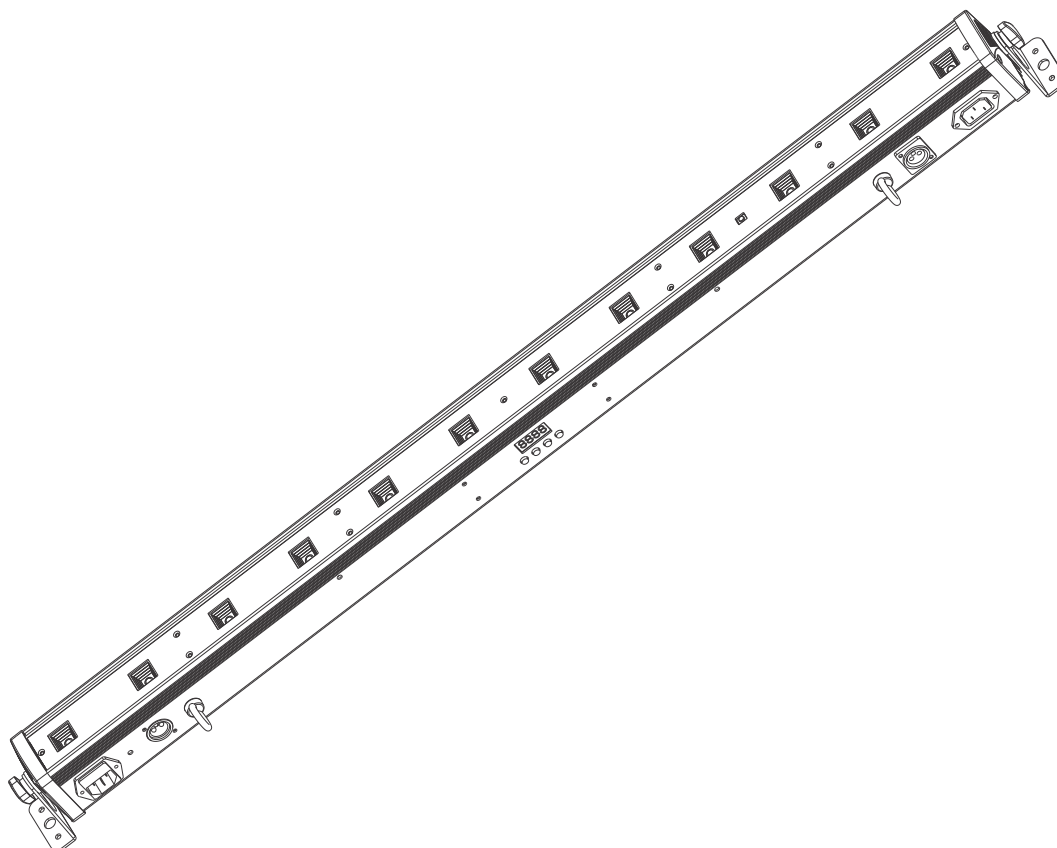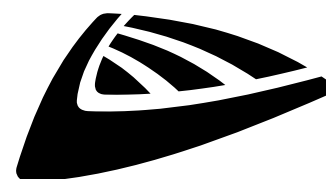# Led UV-Bar

ENGLISH
Operation Manual

Other languages can be downloaded from:
WWW.JB-SYSTEMS.EU

CE

Version: 1.0

JBSYSTEMS

RECYCLE

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 pais.

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

- A reliable LED-based black light with many advantages compared to a traditional UV lamp !
- DMX control via 1, 2 or 3 channels
- IR-remote control included for easy operation!
- Instant reaction. Can even be dimmed from 0% to 100%
- Sound activated mode with internal mic.
- Variable Strobe
- Master/slave mode for bigger venues
- No fragile, easy breakable lamps !

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.

<u>Check the contents:</u>
Check that the packing contains the following items:
- Operating instructions
- LED UV-BAR
- 2 installation brackets with 2 rings and 2 knobs. (install the rings between the bracket and the unit)
- Mains cable
- Wireless remote control

SAFETY INSTRUCTIONS:

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 use or the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

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

This symbol means: indoor use only

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 0.1 meter

The device is not suitable for direct mounting on normally flammable surfaces. (suitable only for mounting on non-combustible surfaces)
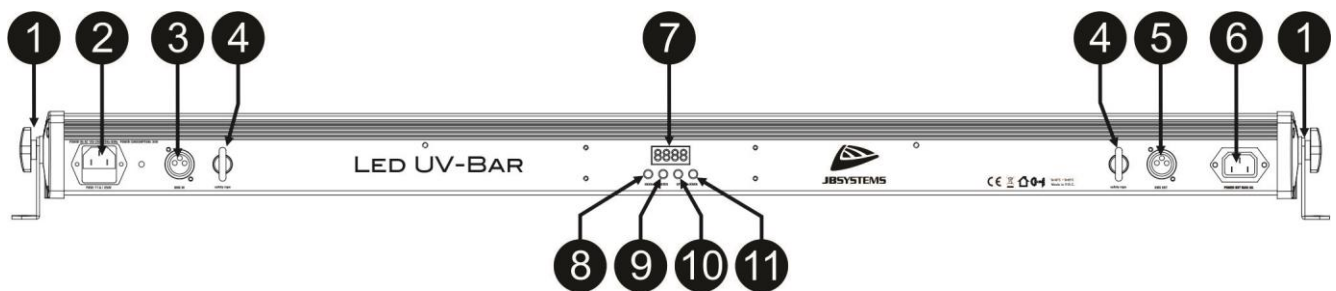
RISK GROUP 2
CAUTION:
Do not stare at operating lamp

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.

DESCRIPTION:

1. **BRACKET:** with knobs on both sides to fasten the unit and a mounting hole to fix a mounting hook.
2. **MAINS INPUT + FUSE HOLDER:** with IEC socket and integrated fuse holder, connect the supplied mains cable here.
3. **DMX INPUT:** 3pin male XLR-connector used to connect the projector with the DMX controller or with the previous unit in the DMX chain.
4. **SAFETY EYE:** used to attach a safety cable when the unit is rigged, see paragraph "overhead rigging"
5. **DMX OUTPUT:** 3pin female XLR-connector used to connect the projector with the next unit in the DMX chain.
6. **MAINS OUTPUT:** with IEC socket: you can use a special Male/Female IEC power cable to connect this output with the mains input of the next unit in the DMX chain (for easier linking up to 10A). you can also use our [JB Systems Combi Cable] to link power and dmx signal with one cable
7. **DISPLAY** shows the various menus and the selected functions.
8. **MODE button:** used to browse the different functions in the menu
9. **ENTER button:** used to confirm your choice or to enter the setup mode of a function
10. **UP button:** to increase the values shown on the display.
11. **DOWN button:** to lower the values shown on the display.

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.
- The device should be installed out of reach of people and outside areas where persons may walk by or be seated.
- Before rigging make sure that the installation area can hold a minimum point load of 10times the device's weight.
- Always use a certified safety cable that can hold 12times the weight of the device when installing the unit. This secondary safety attachment should be installed in a way that no part of the installation can drop more than 20cm if the main attachment fails.
- The device should be well fixed; a free-swinging mounting is dangerous and may not be considered!
- Don't cover any ventilation openings as this may result in overheating.
- The operator has to make sure that the safety-relating and machine-technical installations are approved by an expert before using them for the first time. The installations should be inspected every year by a skilled person to be sure that safety is still optimal.

ELECTRICAL INSTALLATION

⚠ **Important:** The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.
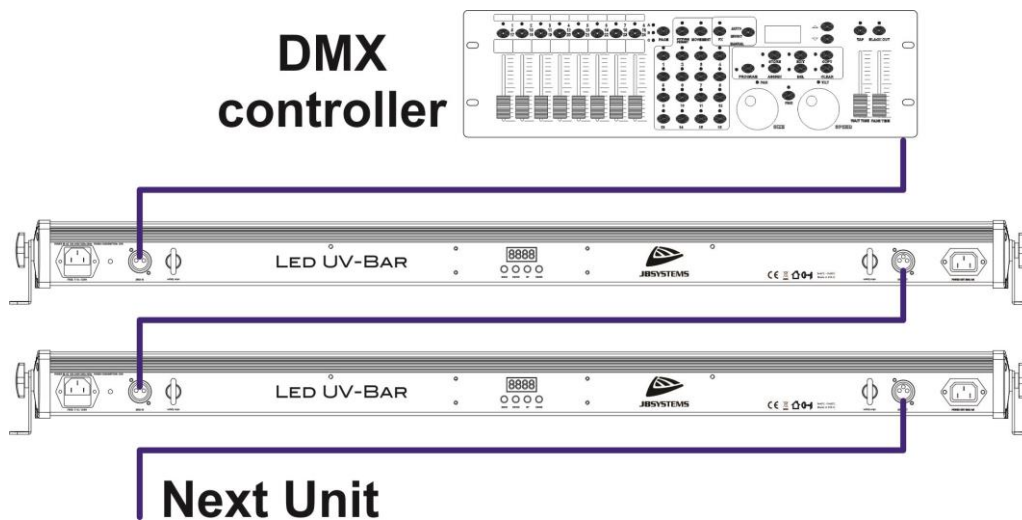
Electrical installation for 1 standalone unit:
- Insert the mains cable. The unit starts working immediately in the last selected mode.
- Refer to chapter HOW TO SETUP to learn how to switch between the different working modes.

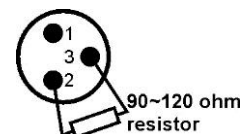**Electrical installation for two or more units in master/slave:**
- Connect the units together using good quality balanced microphone cables. The unit that has no cable connected to its DMX-input is the "master", the others are the slave units.
- Make sure that all units are connected to the mains.
- Refer to chapter HOW TO SETUP for more information.

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

- The DMX-protocol is a widely used high speed signal to control intelligent light equipment. You need to "daisy chain" your DMX controller and all the connected units with a good quality balanced cable.
- 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 start address so it knows which commands from the controller it has to decode. In the section HOW TO SETUP you will learn how to set the DMX addresses. Remember that each projector uses 2 channels, a possible address setup could be: unit1 = 001 ~ unit2 = 003 ~ unit3 = 005 ~ unit4 = 007 ~ etc.

HOW TO SETUP:

MAIN MENU:
- To select any of the menu options, press the [MENU] button up to when the required option is shown on the display.
- Use the [DOWN] and [UP] buttons to change the parameters of the mode.
- Use the [ENTER] button to confirm your setting

DMX512 Address + DMX mode + DMX fail mode Settings
Used to set the start address + the DMX mode in a DMX setup.
You can also set how the projector should react in case there would be a DMX signal failure.
- Press the [MENU] button until **Axxx** (A followed by 3 numbers) is shown on the display.
- Use the [DOWN] and [UP] buttons to change the DMX512 address.
- Press the [ENTER] button to confirm your setting
- Use the [DOWN] and [UP] buttons to select the desired DMX mode (1ch, 2ch or 3ch mode).
- Press the [ENTER] button to confirm your setting
- Use the [DOWN] and [UP] buttons to select the desired DMX fail mode:
  - o **[bLC]**: when the signal is lost, the projector will go in Blackout mode (no light output)
  - o **[HOLd]**: when the signal is lost, the projector will keep on working according to its last received command.
  - o **[Soun]**: when the signal is lost, the projector will go in Sound mode.
- Press the [ENTER] button to confirm your setting

SLAVE MODE
When you have one projector working in standalone mode (without DMX controller), you can connect other UV projectors to this unit and put them in SLAVE mode so they will do exactly the same things as the first (master) projector.
- To put a projector in SLAVE mode, just press the [MENU] button until **SLAU** is shown on the display.
- Press the [ENTER] button to confirm your setting

STANDALONE MODE:
You can use the projector without DMX controller and set the desired parameters manually.
  1. **FIXED DIMMER LEVEL AND STROBE SPEED**
- Press the [MENU] button until **[C-xxx]** (C followed by 2 numbers) is shown on the display.
- Use the [DOWN] and [UP] buttons to set the intensity of the light output (00=blackout, 99=max. output).
- Press the [ENTER] button to confirm your setting
- **[CFxx]** (CF followed by 2numbers) will appear on the display.
- Use the [DOWN] and [UP] buttons to set the strobe speed (00=no strobe, 99=high speed).
- Press the [ENTER] button to confirm your setting

  2. **SOUND MODE**
Used to set the automatic Sound Controlled Mode.
- Press the [MENU] button until **[SUxx]** (SU followed by 2 numbers) is shown on the display.
- Use the [DOWN] and [UP] buttons to set the sensitivity of the build-in microphone (00=low sensitivity, 99=high sensitivity).

  3. **INFRA RED REMOTE CONTROL**
Used to turn the infra-red remote control receiver on or off.
- Press the [MENU] button until **[Iron]** (infra-red remote control on) or **[IroF]** (infra-red remote control off) is shown on the display.
- Use the [DOWN] and [UP] buttons to change the setting if needed
- Press the [ENTER] button to confirm your setting

OPERATING INSTRUCTIONS

A. **Standalone 1unit:**
- Just connect the projector to the mains.
- Select the desired STANDALONE MODE
- Refer to chapter HOW TO SETUP to learn how to make the settings.

B. **Two or more units in master/slave setup:**
- Connect several units together. Refer to the chapter "electrical installation" to learn how to do this.
- Select one of the STANDALONE MODES on the master (the first UV projector in the DMX chain)
- Set all the other projectors in SLAVE mode.
- The projectors will now follow the program of the master projector so they all work synchronously.

C. **Controlled by universal DMX-controller:**
- Connect all units together. Refer to the chapter "Electrical installation for two or more units in DMX-mode" to learn how to do this (don't forget to address all units properly!)
- 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 uses 1, 2 or 3 DMX-channels, depending on the DMX-mode you have selected in the menu. See the different DMX charts below:

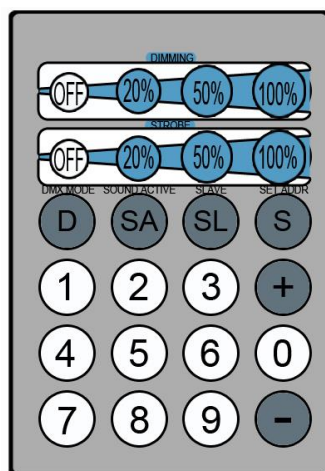**DMX Chart for the 1 channel DMX-Mode**

Channel	Value	Function
CH 1	000-255	Dimmer 0-100%

DMX Chart for the 2 channel DMX-Mode

Channel	Value	Function
CH 1	000-255	Dimmer 0-100%
CH 2	000-255	Strobe speed (increasing from slow to fast)

DMX Chart for the 3 channel DMX-Mode

Channel	Value	Function
CH 1	000-255	Dimmer 0-100%
CH 2	000-255	Strobe speed (increasing from slow to fast)
CH 3	000-127	NO sound control
	128-255	Sound control

WIRELESS REMOTE CONTROLLER

- **DIMMING:** You can set the light output at 20%, 50% or 100%. OFF = Blackout.
- **STROBE:** You can set the strobe speed at 20%, 50% or 100%. OFF = No strobe effect.
- **D:** not used.
- **SA:** Used to start the sound activation. You can use the **+** and **–** buttons to set the sound sensitivity.
- **SL:** Used to set the projector in SLAVE mode.
- **S:** not used.

MAINTENANCE

- Make sure the area below the installation place is free from unwanted persons during servicing.
- Switch off the unit, unplug the mains cable and wait until the unit has been cooled down.

<u>**During inspection the following points should be checked:**</u>

- 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.

<u>**Attention:**</u> **We strongly recommend internal cleaning to be carried out by qualified personnel!**
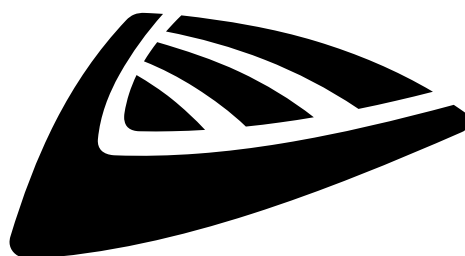
SPECIFICATIONS

This unit is radio-interference suppressed. This product meets the requirements of the current European and national guidelines. Conformity has been established and the relevant statements and documents have been deposited by the manufacturer.

This device was designed to produce decorative effect lighting and is used in light show systems.

Mains Input:	110-240Vac, 50/60Hz
Power consumption:	40 Watt
Fuse:	250V 1A slow blow (20mm glass)
Sound Control:	Internal microphone
DMX connections:	XLR 3pin
DMX modes:	1/2/3 channels
LEDs:	12x 3W UV
Beam angle:	100°
Dimensions:	1050x93x88mm
Weight:	2,72 kg

All the 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

JBSYSTEMS

MAILING LIST

EN: Subscribe today to our mailing list for the latest product news!
FR: Inscrivez-vous à notre liste de distribution si vous souhaitez suivre l'actualité de nos produits!
NL: Abonneer je vandaag nog op onze mailinglijst en ontvang ons laatste product nieuws!
DE: Abonnieren Sie unseren Newsletter und erhalten Sie aktuelle Produktinformationen!
ES: Suscríbete hoy a nuestra lista de correo para recibir las últimas noticias!

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