

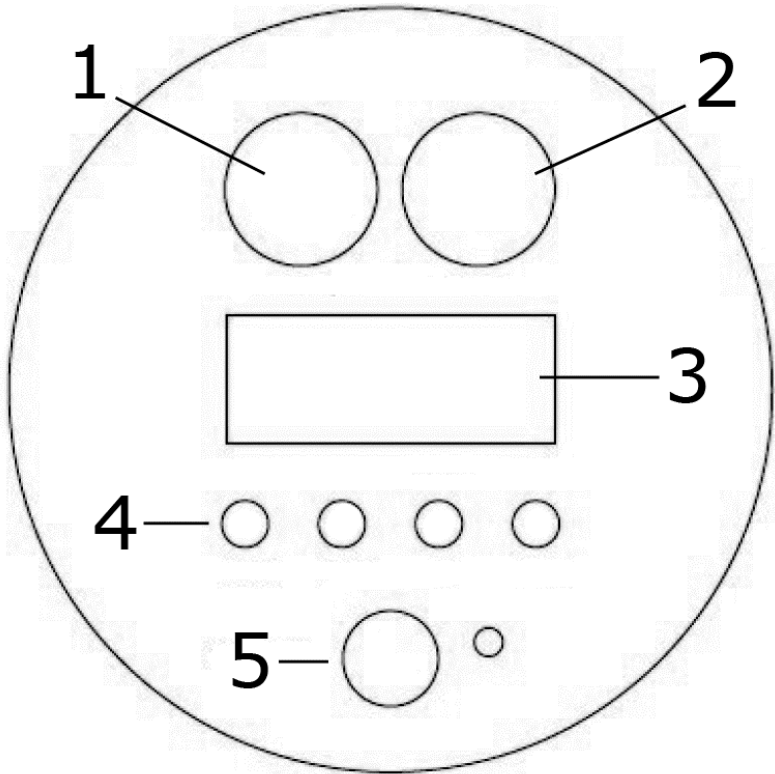
LX163

LUXIBEL COBPAR 100 - RGBWA-UV COB LED



USER MANUAL





USER MANUAL

1. Introduction

To all residents of the European Union

Important environmental information about this product



This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment. Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialized company for recycling. This device should be returned to your distributor or to a local recycling service. Respect the local environmental rules.

If in doubt, contact your local waste disposal authorities.



Thank you for choosing Luxibel®! Please read the manual thoroughly before bringing this device into service. If the device was damaged in transit, do not install or use it and contact your dealer.

2. Safety Instructions

| | |
|--|--|
| | Keep this device away from children and unauthorized users. |
| | This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children shall be supervised to ensure that they do not play with the appliance. |
| | <p>Indoor use only. Keep this device away from rain, moisture, splashing and dripping liquids. Never put objects filled with liquids on top of or close to the device.</p> |
| | <p>Risk of electroshock when opening the cover. Touching live wires can cause life-threatening electroshocks. Do not disassemble or open the housing yourself. Have the device repaired by qualified personnel.</p> <p>Be very careful during the installation: touching live wires can cause life-threatening electroshocks.</p> <p>DO NOT disassemble or open the cover under any circumstances. Touching live wires can cause life-threatening electroshocks.</p> <p>Do not crimp the power cord and protect it against damage.</p> <p>Warning! If the power cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid any hazard.</p> |
| | Always disconnect mains power when the device is not in use or when servicing or performing maintenance activities. Handle the power cord by the plug only. |
| | DO NOT disassemble or open the cover. There are no user-serviceable parts inside the device. Refer to an authorized dealer for service and/or spare parts. |
| | <p>Do not stare directly at the light source, as this may cause</p> <ul style="list-style-type: none"> • epileptic seizure in sensitive people • temporarily loss of sight (flash blindness) • permanent (irreversible) eye damage. |
| | Do not use the device when noticing damage to housing or cables. Do not attempt to service the device yourself but contact an authorised dealer. |
| | This is a Safety Class 1 device. |

3. General Guidelines

Refer to the **Velleman® Service and Quality Warranty** on the last pages of this manual.

| | |
|---|---|
|  | <p>Keep this device away from dust and extreme temperatures. Make sure the ventilation openings are clear at all times. For sufficient air circulation, leave at least 1" (\pm 2.5 cm) in front of the openings.</p> |
|  | <p>Protect this device from shocks and abuse. Avoid brute force when operating the device.</p> |

- Familiarise yourself with the functions of the device before actually using it.
- Do not modify the device for safety reasons. The warranty does not cover damage caused by user modifications to the device.
- Only use the device for its intended purpose. Using the device in an unauthorised way will void the warranty.
- Only use the device for its intended purpose. All other uses may lead to short circuits, burns, electroshocks, crash, etc. Using the device in an unauthorized way will void the warranty.
- The warranty does not cover damage caused by disregard of certain guidelines in this manual and the dealer will not accept responsibility for any ensuing defects or problems.
- Nor Velleman nv nor its dealers can be held responsible for any damage (extraordinary, incidental or indirect) – of any nature (financial, physical...) arising from the possession, use or failure of this product.
- Do not switch the device on immediately after it has been exposed to changes in temperature. Protect the device against damage by leaving it switched off until it has reached room temperature.
- Keep this manual for future reference.

4. Features

The high-output COB (chip-on-board) from the COBPAR 100 RGBWA-UV produces a large wash of coloured light. The LX163 is designed for washing and other special effects on podiums and theatre stages.

- variable electronic dimmer (0-100 %) with 4 dimmer options available via DMX
- electronic shutter
- built-in programme with speed adjustment
- 16-bit dimmer effect and white balance
- temperature sensor via software to control fan speed against overheating
- DMX-controlled via 13 channels
 - 3-channel mode: RGB
 - 4-channel mode: dimmer, RGB
 - 6-channel mode: RGBWA-UV
 - 7-channel mode: dimmer, RGBWA-UV
 - 8-channel mode: dimmer, RGBWA-UV, shutter
 - 13-channel mode: dimmer, RGBWA-UV, colour range, shutter, macros, macro speed, dimmer macros, ID selection
- clear LED display for menu setting

5. Overview

Refer to the illustrations on page 2 of this manual.

| | |
|----------|------------|
| 1 | DMX input |
| 2 | DMX output |
| 3 | display |

| | |
|----------|-----------------|
| 4 | setting buttons |
| 5 | power cable |

6. Mounting

Safety

- Before mounting the product, read and follow the safety recommendations indicated in the **Safety Instructions**.

Rigging

- Overhead mounting requires extensive experience: calculating workload limits, determining the installation material to be used... Have the material and the device itself checked regularly. Do not attempt to install the device yourself if you lack these qualifications as improper installation may result in injuries.
- The carrying construction must be able to support 10 times the weight of the device for 1 hour without deforming.
- Always secure the installation with a secondary attachment such as a safety cable (e.g. VDLSC7N or VDLSC8N). The secondary attachment shall be designed and mounted in such a way that no part of the device can fall if the primary attachment fails.
- Make sure that the safety cables can carry 10 times the weight of the device. Make sure that the maximum height of drop is limited so that no injuries can occur. If the safety cables are long, wrap them around the truss multiple times to reduce the height of drop to a safe level.
- Never stand directly below the device when it is being mounted, removed or serviced. Have a qualified technician check the device once a year and once before you bring it into service.
- Install the device in a location with few passers-by that is inaccessible to unauthorised persons.
- Make sure there is no flammable material within a 0.5 m radius of the device.

7. Connection

Power

Connect the device to the mains with the power plug.

Power all devices directly off a grounded switched circuit.

Do not connect the device to a rheostat or dimmer circuit, even when using the rheostat or dimmer channel solely for 0 % to 100 % switching.

- Have a qualified electrician carry out the electric connection.

DMX-512 Connection

- When applicable, connect an XLR cable to the female XLR output of a controller (not incl.) and the other side to the male XLR input of the device. Multiple devices can be linked through serial linking. The linking cable shall be a dual core, screened cable with XLR input and output connectors.
- A DMX terminator is recommended for installations where the DMX cable has to run a long distance or is in an electrically noisy environment (e.g. discos). The terminator prevents corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor between pins 2 and 3, which is then plugged into the XLR output socket of the last device in the chain.

8. Operation

8.1 Control Panel

Access the control panel functions using the four buttons below the display.

| button | function |
|--------|--|
| MENU | to access the menu, quit the current function without saving the setting, or quit the menu |
| UP | to scroll upward in a list of functions or options, or increase a value |
| DOWN | to scroll downward in a list of functions or options, or decrease a value |
| ENTER | to confirm and save a selected option or value |

8.2 Menu

| menu | options | function |
|-------|----------------|--|
| STAT | R.000 | red setting from 0-255 |
| | G.000 | green setting from 0-255 |
| | b.000 | blue setting from 0-255 |
| | Y.000 | amber setting from 0-255 |
| | W.000 | white setting from 0-255 |
| | U.000 | UV setting from 0-255 |
| AUTO | ST.00 | strobe setting from 0-20 |
| | AT.01-AT.10 | auto mode selection |
| SOUd | PR.01-PR.10 | programme selection |
| | MOD1 | sound control with colour change |
| RUN | MOD2 | sound control with colour strobe |
| | dMX | DMX mode |
| PERS | SLAV | slave mode |
| | 001-512 | DMX value setting |
| | STRG | static mode (13 channels with DMX protocol) |
| | ARC.1 | 3-channel mode |
| | AR1.d | 4-channel mode |
| | ARC.2 | 6-channel mode |
| | AR2.d | 7-channel mode |
| AR2.5 | 8-channel mode | |
| Id | HSV. | hue, saturation and value setting (0-255) |
| TEMP | CURR | ID setting from ID01-ID66 |
| EdIT | PR.01-PR.10 | current running temperature of the device |
| | SC.01-SC.30 | 10 programmes |
| | R.000 | 30 scenes |
| | G.000 | setting red from 0-255 |
| | b.000 | setting green from 0-255 |
| | Y.000 | setting blue from 0-255 |
| | W.000 | setting amber from 0-255 |
| | U.000 | setting white from 0-255 |
| | ST.00 | setting UV from 0-255 |
| | T.000 | setting strobe from 0-20 |
| SET | F.000 | setting auto mode total running time |
| | UPLd | setting auto mode fade time 0-255 |
| | REST. | data transfer to next device with custom-made built-in programme |
| | Id | reset function |
| | RGBw. | on/off |
| | POW. | CAL2 on/off |
| CAL1 | dIM | power consumption selection (high: 100 %, norm: 33 %) |
| | WT.01-WT.11 | off/DIM1/DIM2/DIM3/DIM4 |
| CAL2 | | white balance from 0-255 |
| | | setting RGBWA from 25-255 |

8.3 Stand-Alone Mode

The device starts running in stand-alone mode after connection to the mains. This mode allows you to use the device without controller.

1. Connect the device to the mains to switch it on
2. Press MENU to enter the menu.
3. Navigate to <AUTO> or <SOUd> with UP or DOWN and press ENTER to confirm.
4. Select an option with UP or DOWN and press ENTER to confirm.

8.4 Master/Slave Mode

Notes

- The master/slave mode allows for connecting several devices to a single master device in a daisy chain.
- All slave devices will then work synchronously with the master device.
- Configure all slave units before connecting the master unit to the daisy chain.
- The maximum number of slave units you can connect to a master unit is 18.

Slave units:

1. Connect the DMX input from your slave device to the DMX output of the previous device in the chain.
2. Connect the slave device to the mains to switch it on.
3. Press MENU to enter the menu.
4. Navigate to <RUN> with UP or DOWN and press ENTER to confirm.
5. Select <SLAV> with UP or DOWN and press ENTER to confirm.
6. Repeat these steps for all slave units.

Master unit

1. Connect the master device to the mains to switch it on.
2. Set the master unit to work in one of the running modes.
3. Connect the master unit as the first unit in the chain by connecting the DMX output of the master device to the DMX input of the first slave unit.

8.5 DMX Mode

The DMX mode allows you to control the device with any universal DMX controller.

- All DMX-controlled devices need a digital start address so that the correct device responds to the signals. This digital start address is the channel number from which the device starts to "listen" to the DMX controller. The same starting address can be used for a whole group of devices or an individual address can be set for every device.
- When all devices have the same address, all the units will "listen" to the control signal on one particular channel. In other words: changing the settings of one channel will affect all devices simultaneously. If you set individual addresses, each device will "listen" to a separate channel number. Changing the settings of one channel will only affect the device in question.

To set the device to work with a DMX controller:

1. Press MENU until <Channel> is displayed and press ENTER.
2. Use UP and DOWN to select a channel and press ENTER.
3. Press MENU until <Address> is displayed and press ENTER.
4. Use <UP> and <DOWN> to set the DMX start address and press ENTER.

Start addresses

Use the table below to define the correct address. The table shows the settings for units 1 to 3. Apply the same principle for the other units. Example:

| Channel mode | 1 st unit | 2 nd unit | 3 rd unit | Highest start address | |
|--------------|----------------------|----------------------|----------------------|-----------------------|-----|
| 13 | start address | 1 | 14 (1 + 13) | 26 (14 + 13) | 500 |
| | channel | 1 - 13 | 14 - 25 | 26 - 38 | |

DMX Channel Values

3-Channel Mode (ARC.1)

| channel | from | to | function | description |
|---------|------|-----|----------|--------------------|
| 1 | 0 | 255 | red | red from 0-100 % |
| 2 | 0 | 255 | green | green from 0-100 % |
| 3 | 0 | 255 | blue | blue from 0-100 % |

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3-Channel Mode (HSV)

| channel | from | to | function | description |
|---------|------|-----|------------|-------------------------|
| 1 | 0 | 255 | hue | hue from 0-100 % |
| 2 | 0 | 255 | saturation | saturation from 0-100 % |
| 3 | 0 | 255 | value | value from 0-100 % |

4-Channel Mode (AR1.d)

| channel | from | to | function | description |
|---------|------|-----|----------|---------------------|
| 1 | 0 | 255 | dimmer | dimmer from 0-100 % |
| 2 | 0 | 255 | red | red from 0-100 % |
| 3 | 0 | 255 | green | green from 0-100 % |
| 4 | 0 | 255 | blue | blue from 0-100 % |

6-Channel Mode (ARC.2)

| channel | from | to | function | description |
|---------|------|-----|------------|-------------------------|
| 1 | 0 | 255 | red | red from 0-100 % |
| 2 | 0 | 255 | green | green from 0-100 % |
| 3 | 0 | 255 | blue | blue from 0-100 % |
| 4 | 0 | 255 | warm white | warm white from 0-100 % |
| 5 | 0 | 255 | cold white | cold white from 0-100 % |
| 6 | 0 | 255 | UV | UV from 0-100 % |

7-Channel Mode (AR2.d)

| channel | from | to | function | description |
|---------|------|-----|------------|-------------------------|
| 1 | 0 | 255 | dimmer | dimmer from 0-100 % |
| 2 | 0 | 255 | red | red from 0-100 % |
| 3 | 0 | 255 | green | green from 0-100 % |
| 4 | 0 | 255 | blue | blue from 0-100 % |
| 5 | 0 | 255 | warm white | warm white from 0-100 % |
| 6 | 0 | 255 | cold white | cold white from 0-100 % |
| 7 | 0 | 255 | UV | UV from 0-100 % |

8-Channel Mode (AR2.5)

| channel | from | to | function | description |
|---------|------|-----|------------|------------------------------|
| 1 | 0 | 255 | dimmer | dimmer from 0-100 % |
| 2 | 0 | 255 | red | red from 0-100 % |
| 3 | 0 | 255 | green | green from 0-100 % |
| 4 | 0 | 255 | blue | blue from 0-100 % |
| 5 | 0 | 255 | warm white | warm white from 0-100 % |
| 6 | 0 | 255 | cold white | cold white from 0-100 % |
| 7 | 0 | 255 | UV | UV from 0-100 % |
| 8 | 0 | 10 | strobe | no function |
| | 11 | 255 | | strobe with increasing speed |

13-Channel Mode (STRG)

| channel | from | to | function | description |
|---------|------|-----|------------|-------------------------|
| 1 | 0 | 255 | dimmer | dimmer from 0-100 % |
| 2 | 0 | 255 | red | red from 0-100 % |
| 3 | 0 | 255 | green | green from 0-100 % |
| 4 | 0 | 255 | blue | blue from 0-100 % |
| 5 | 0 | 255 | warm white | warm white from 0-100 % |
| 6 | 0 | 255 | cold white | cold white from 0-100 % |
| 7 | 0 | 255 | UV | UV from 0-100 % |

| | | | | |
|-----|-----|------------------------------|--|---|
| 8 | 0 | 30 | colour change | no function |
| | 31 | 50 | | R 100 % / G 0-100 % / B 0 % / W 0 % / Y 0 % / U 0 % |
| | 51 | 70 | | R 100-0 % / G 100 % / B 0 % / W 0 % / Y 0 % / U 0 % |
| | 71 | 90 | | R 0 % / G 100 % / B 0-100 % / W 0 % / Y 0 % / U 0 % |
| | 91 | 110 | | R 0 % / G 100-0 % / B 100 % / W 0 % / Y 0 % / U 0 % |
| | 111 | 130 | | R 0-100 % / G 0 % / B 100 % / W 0 % / Y 0 % / U 0 % |
| | 131 | 150 | | R 100 % / G 0 % / B 100-0 % / W 0 % / Y 0 % / U 0 % |
| | 151 | 170 | | R 100 % / G 0-100 % / B 100 % / W 0 % / Y 0 % / U 0 % |
| | 171 | 190 | | R 100 % / G 100-0 % / B 100 % / W 0 % / Y 0 % / U 0 % |
| | 191 | 200 | | R 100 % / G 100 % / B 100 % / W 100 % / Y 0 % / U 0 % |
| | 201 | 255 | | different white colour |
| 9 | 0 | 10 | strobe | no function |
| | 11 | 255 | | strobe with increasing speed |
| 10 | 0 | 20 | built-in programme | no function |
| | 21 | 30 | | fixed programme AT01 |
| | 31 | 120 | | fixed programme AT02-AT10 |
| | 121 | 130 | | built-in programme PR01 |
| | 131 | 220 | | built-in programme PR02-PR10 |
| | 221 | 240 | | colour change through sound control |
| 241 | 255 | strobe through sound control | | |
| 11 | 0 | 255 | speed setting for built-in programme | speed from slow to fast |
| 12 | 0 | 9 | dimmer options (to be used with channel 1) | dimmer speed |
| | 10 | 29 | | dimmer delay off |
| | 30 | 69 | | dimmer 1 |
| | 70 | 129 | | dimmer 2 |
| | 130 | 189 | | dimmer 3 |
| 190 | 255 | dimmer 4 | | |
| 13 | 0 | 9 | ID selection | no function |
| | 135 | 255 | | ID selection form ID01-ID66 |

9. Cleaning and Maintenance

Before starting any cleaning or maintenance activities:

1. Unplug the device's power cord from the mains.
2. Let the device cool down.

Cleaning

- Clean the external optics and the housing with a slightly moist, soft cloth. Do not immerse the device in any liquid.
- Always be sure to dry all parts completely before plugging the unit back in.

Maintenance

- All screws should be tightened and free of corrosion.
- The housing, visible parts, mounting supports and the installation location (e.g. ceiling, suspension, trussing) should not be deformed, modified or tampered with e.g. do not drill extra holes in mounting supports, do not change the location of the connections.
- Wipe the device regularly with a slightly moist, lint-free cloth. Do not use alcohol or solvents.
- There are no user-serviceable parts.
- Contact an authorized dealer for spare parts if necessary.

10. Technical Specifications

| | |
|-------------------|----------------------------|
| power supply | 110-240 V~, 50-60 Hz |
| power consumption | 120 W |
| light source | RGBWA-UV COB 100 W EPISTAR |
| beam angle | 60° |
| luminous flux | 2330 lm @ 1 m |
| dimensions | 370 x 250 x 250 mm |
| weight | 3.8 kg |

Use this device with original accessories only. Velleman nv cannot be held responsible in the event of damage or injury resulting from (incorrect) use of this device. For more info concerning this product and the latest version of this manual, please visit our website www.luxibel.com. The information in this manual is subject to change without prior notice.

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Velleman® Service and Quality Warranty

Since its foundation in 1972, Velleman® acquired extensive experience in the electronics world and currently distributes its products in over 85 countries.

All our products fulfil strict quality requirements and legal stipulations in the EU. In order to ensure the quality, our products regularly go through an extra quality check, both by an internal quality department and by specialized external organisations. If, all precautionary measures notwithstanding, problems should occur, please make appeal to our warranty (see guarantee conditions).

General Warranty Conditions Concerning Consumer Products (for EU):

- All consumer products are subject to a 24-month warranty on production flaws and defective material as from the original date of purchase.
- Velleman® can decide to replace an article with an equivalent article, or to refund the retail value totally or partially when the complaint is valid and a free repair or replacement of the article is impossible, or if the expenses are out of proportion.

You will be delivered a replacing article or a refund at the value of 100% of the purchase price in case of a flaw occurred in the first year after the date of purchase and delivery, or a replacing article at 50% of the purchase price or a refund at the value of 50% of the retail value in case of a flaw occurred in the second year after the date of purchase and delivery.

• Not covered by warranty:

- all direct or indirect damage caused after delivery to the article (e.g. by oxidation, shocks, falls, dust, dirt, humidity...), and by the article, as well as its contents (e.g. data loss), compensation for loss of profits;
- consumable goods, parts or accessories that are subject to an aging process during normal use, such as batteries (rechargeable, non-rechargeable, built-in or replaceable), lamps, rubber parts, drive belts... (unlimited list);
- flaws resulting from fire, water damage, lightning, accident, natural disaster, etc....;
- flaws caused deliberately, negligently or resulting from improper handling, negligent maintenance, abusive use or use contrary to the manufacturer's instructions;
- damage caused by a commercial, professional or collective use of the article (the warranty validity will be reduced to six (6) months when the article is used professionally);
- damage resulting from an inappropriate packing and shipping of the article;
- all damage caused by modification, repair or alteration performed by a third party without written permission by Velleman®.
- Articles to be repaired must be delivered to your Velleman® dealer, solidly packed (preferably in the original packaging), and be completed with the original receipt of purchase and a clear flaw description.
- Hint: In order to save on cost and time, please reread the manual and check if the flaw is caused by obvious causes prior to presenting the article for repair. Note that returning a non-defective article can also involve handling costs.
- Repairs occurring after warranty expiration are subject to shipping costs.
- The above conditions are without prejudice to all commercial warranties.

The above enumeration is subject to modification according to the article (see article's manual).
