

LX306

Nuxiled 3000 - DMX controlled LED strobe



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, don't install or use it and contact your dealer.



2. Safety Instructions

	<p>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.</p> <p>Children shall be supervised to ensure that they do not play with the appliance. Never let the device run unattended.</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> <p>Make sure that the available voltage does not exceed the voltage stated in the specifications of this manual.</p> <p>This device falls under protection class I. It is therefore essential that the device be earthed. Have a qualified person carry out the electric connection.</p> <p>Be very careful during the installation: touching live wires can cause life-threatening electroshocks.</p> <p>Do not use the device when damage to housing or cables is noticed. Do not attempt to service the device yourself but contact an authorised dealer or service agent.</p>
	<p>Always disconnect mains power when device not in use or when servicing or maintenance activities are performed. Handle the power cord by the plug only.</p>
	<p>Caution: device heats up during use. Do not touch hot surfaces. Let the device cool down sufficiently after switching off before handling.</p>
	<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>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.

- Use an appropriate safety cable to fix the device (e.g. VDLSC7N or VDLSC8N).
- Install the device at a minimal distance of 0.5 m from flammable and explosive objects or substances.
- Respect a minimum distance of 0.5 m between the device's light output and any illuminated surface.
- The maximum ambient temperature is 40 °C. Do not operate the device at higher temperatures.

3. General Guidelines

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

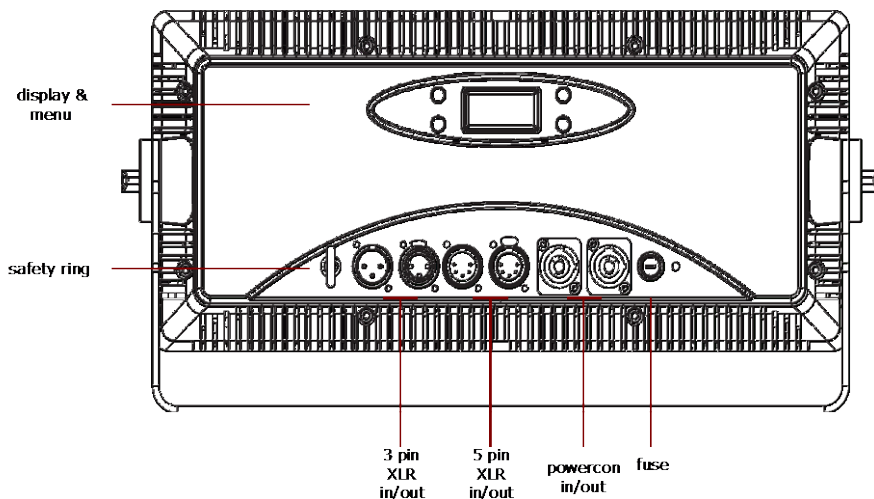
	<p>Keep this device away from dust and extreme temperatures. Make sure the ventilation openings are clear at all times. For sufficient air circulation, leave at least 1" (\pm 2.5 cm) in front of the openings.</p>
	<p>Protect this device from shocks and abuse. Avoid brute force when operating the device.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

- Familiarise yourself with the functions of the device before actually using it. Do not allow operation by unqualified people. Any damage that may occur will most probably be due to unprofessional use of the device.
- All modifications of the device are forbidden for safety reasons. Damage caused by user modifications to the device is not covered by the warranty.
- Only use the device for its intended purpose. All other uses may lead to short circuits, burns, electroshocks, lamp explosion, crash, etc. Using the device in an unauthorised way will void the warranty.
- Damage caused by disregard of certain guidelines in this manual is not covered by the warranty and the dealer will not accept responsibility for any ensuing defects or problems.
- Mechanical wear and LEDs are not covered by warranty.
- A qualified technician shall install and service this device.
- 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.
- This device is designed for professional use on stage, in discos, theatres, etc.
- Lighting effects are not designed for permanent operation: regular operation breaks will prolong their lives.
- There may be some smoke or a particular smell when the device is activated for the first time. This is normal and any smoke or smell will gradually disappear.
- Use the appropriate current and power supply (see Technical Specifications).
- Keep this manual for future reference.

4. Features

- die-cast light housing special for rental companies
- DMX controlled via 1, 5, 6, or 10 channels for simple or advanced controlling
 - 1 channel mode: strobe
 - 5 channel mode: dimmer, strobe, strobe rate, macros, segment control
 - 6 channel mode: strobe for each segment (6)
 - 10 channel mode: strobe for each segment (6), auto program, auto program speed, master dimmer, shutter
- pre-programmed stand-alone effects, built-in programs with speed adjustment, and master/slave mode
- flicker-free (400 Hz)
- clear LCD display for easy menu setting

5. Overview



6. Installation

Choose a suitable mounting spot. Mount the device in the desired angle using the included bracket. Connect the power cord to the mains. Disconnect after use.

Mounting the Device

- Have the device installed by a qualified person, respecting EN 60598-2-17 and all other applicable norms.
- The carrying construction must be able to support 10 times the weight of the device for 1 hour without deforming.
- For truss mounting, use an appropriate clamp (not incl.) and fit an M10 bolt through the centre of the (folded) bracket.
- The installation must always be secured 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.
- 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.
- Make sure there is no flammable material within a 0.5 m radius of the device.
- Have a qualified electrician carry out the electric connection.
- Connect the device to the mains with the power plug. All devices must be powered directly off a grounded switched circuit and cannot be run off a rheostat or dimmer circuit, even if the rheostat or dimmer channel is used solely for 0 % to 100 % switching.
- The device has a power output to supply power to another device. When connecting several devices in a daisy chain via this output, make sure that the total current does not exceed the power line's

nominal current. Use power cables with an adequate section. The installation has to be approved by an expert before the device is taken into service.

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.
- Maximum recommended serial data link distance is 500 meters (1640 ft). Maximum recommended number of devices on a serial data link is 32 devices.
- 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.

7. Operation

The device can be used in the following modes:

- stand-alone mode
- master/slave
- with a DMX512 controller.

7.1 Control Panel Navigation

Access the control panel functions using the four panel buttons located directly underneath the display. From left to right:

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

Menu name	Options		Description
Auto	Auto 0–7	Speed 001–100	8 automatic programs and speed adjustment
Static	Dimmer	000–255	Sets the intensity of the light output
	Strobe		Selects the strobe frequency
BackLite	On		Sets the amount of time the control panel backlight stays on
	10S		
	20S		
	30S		
Info	Auto	Test	Sets product in test mode
	FixHours		Fixture running time: 0-9999H Default: 0H
	Version Vx.x		Shows the installed software version
Address	001–512		Sets product's DMX address
Channel	1 Ch		1-channel: strobe
	5 Ch		5-channel: intensity, duration, rate, effect, macro
	6 Ch		6-channel: Flash 1–6
	10 Ch		10-channel: Flash 1–6, auto programs, auto speed, dimmer, strobe
M&S Mode	Master		Selects Master mode
	Slave		Selects Slave mode
Temp xx° C			Displays product's internal temperature

Power Linking

The LX 306 supports power linking. You can power up to 6 devices at 230 V. Never exceed this number. Power linking cords can be purchased separately.

DMX Linking

You can link the device to any DMX controller with a standard DMX serial connection. If you use another DMX compatible product with the LX306, you can control each device with a single DMX controller.

7.2 Stand-Alone Mode

In stand-alone mode, the device runs one of the built-in programs.

To set the device to stand-alone mode:

1. Unplug any connection from the DMX input of the device.
2. Press MENU until <Auto> is displayed and press ENTER.
3. Use UP and DOWN to select the built-in program and press ENTER.

7.3 Master/Slave Mode

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. The first device in the daisy chain functions as the master device.

To set the devices to master/slave mode:

1. Unplug any connection from the DMX input of the master device (the first device in the chain).
2. Connect the DMX input of the first slave device to the DMX output of the master device.
3. Connect the DMX input of the subsequent slave devices to the DMX output of the previous slave device.

Master

1. Set up the unit as described in the section **Stand-Alone Mode** above.
2. Press MENU until <M&S Mode> is displayed and press ENTER.
3. Use UP and DOWN to select <Master> and press ENTER.

Slave

1. On each slave device, press MENU until <M&S Mode> is displayed and press ENTER.
2. Use UP and DOWN to select <Slave> and press ENTER.

7.4 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.

	Channel mode	First unit	Second unit	Third unit	Highest start address
1	Start address	1	2 (1 + 1)	3 (2 + 1)	512
	Channel	1 - 1	2 - 2	3 - 3	
5	Start address	1	6 (1 + 5)	11 (6 + 5)	508

	Channel mode	First unit	Second unit	Third unit	Highest start address
	Channel	1 - 5	6 - 10	11 - 15	
6	Start address	1	7 (1 + 6)	13 (7 + 6)	507
	Channel	1 - 6	7 - 12	13 - 18	
10	Start address	1	11 (1 + 10)	21 (11 + 10)	503
	Channel	1 - 10	11 - 20	21 - 30	

7.5 DMX Channel Values

1 channel mode

channel	Function	Value	Percent/Setting
1	Flash	000-005 006-249 250-255	Blackout Flash rate, slow to fast Continuous blinder effect

5 channel mode

channel	Function	Value	Percent/Setting
1	Flash intensity	000-005 006-255	Black out Minimum to maximum
2	Flash duration	000-255	Flash duration 15 – 990 ms
3	Flash rate	000-005 006-255	No flash 1Hz – 30 Hz
4	Special effects	000-005 006-042 043-085 086-128 129-171 172-214 215-255	No effect Ramp up Ramp down Ramp up-down Random Lightning Spikes
5	Pixel control macros	000-005 006-042 043-085 086-128 129-171 172-214 215-255	No effect Macro 1 (slow to fast) Macro 2 (slow to fast) Macro 3 (slow to fast) Macro 4 (slow to fast) Macro 5 (slow to fast) Macro 6 (slow to fast) Channels 1, 2, 3 and 4 are available in 5 channel mode.

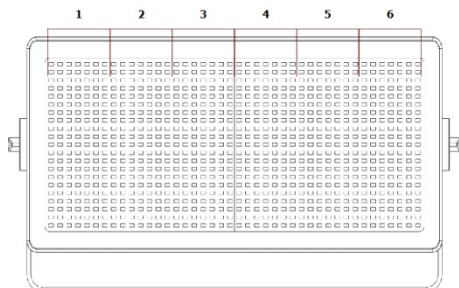
6 channel mode

channel	Function	Value	Percent/Setting
1	Segment 1	000-005 006-249 250-255	Blackout Flash rate, slow to fast Continuous blinder effect
2	Segment 2	000-005 006-249 250-255	Blackout Flash rate, slow to fast Continuous blinder effect
3	Segment 3	000-005 006-249	Blackout Flash rate, slow to fast

LX306

		250-255	Continuous blinder effect
4	Segment 4	000-005	Blackout
		006-249	Flash rate, slow to fast
		250-255	Continuous blinder effect
5	Segment 5	000-005	Blackout
		006-249	Flash rate, slow to fast
		250-255	Continuous blinder effect
6	Segment 6	000-005	Blackout
		006-249	Flash rate, slow to fast
		250-255	Continuous blinder effect

The LEDs can be controlled in 6 segments:



10 channel mode

channel	Function	Value	Percent/Setting
1	Segment 1	000-005	Blackout
		006-249	Flash rate, slow to fast
		250-255	Continuous blinder effect
2	Segment 2	000-005	Blackout
		006-249	Flash rate, slow to fast
		250-255	Continuous blinder effect
3	Segment 3	000-005	Blackout
		006-249	Flash rate, slow to fast
		250-255	Continuous blinder effect
4	Segment 4	000-005	Blackout
		006-249	Flash rate, slow to fast
		250-255	Continuous blinder effect
5	Segment 5	000-005	Blackout
		006-249	Flash rate, slow to fast
		250-255	Continuous blinder effect
6	Segment 6	000-005	Blackout
		006-249	Flash rate, slow to fast
		250-255	Continuous blinder effect
7	Auto Programs	000-010	No Function
		011-040	Auto 0
		041-070	Auto 1
		071-100	Auto 2
		101-130	Auto 3
		131-160	Auto 4
		161-190	Auto 5
		191-220	Auto 6
		221-255	Auto 7
8	Auto speed	000-255	Auto speed slow to fast
	Dimmer	000-255	0 - 100%

10	Strobe	000-005 006-255	No Function Strobe Slow to Fast
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8. Cleaning and Maintenance

Before starting any cleaning or maintenance activities:

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

Cleaning

- Clean the external optics with a soft cloth.
- Always be sure to dry all parts completely before plugging the unit back in.
- Cleaning frequency depends on the environment in which the unit operates (i.e. smoke, fog residue, dust, dew).
- Do not immerse the device in any liquid.

Maintenance

- All screws should be tightened and free of corrosion.
- The housing, the lenses, the 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...
- Mechanically moving parts must not show any signs of wear and tear.
- The electric power supply cables must not show any damage. Have a qualified technician maintain the device.
- There are no user-serviceable parts, apart from the fuse.
- Refer to an authorized dealer for service and/or spare parts.

Replacing the fuse

Only replace the fuse by a fuse of the same type and rating.

1. Unplug the device's power cord from the outlet.
2. Use a flat-head screwdriver to remove the fuse holder.
3. Remove the damaged fuse and replace with the same type of fuse.
4. Insert the fuse holder back in its place and reconnect power.

9. Technical Specifications

power supply	100-240 VAC 50/60 Hz (powerCON in and out)
power consumption	460 W
LED source	882 x 0.5 W SMD 6500 K
colour temperature	6500 K
beam angle	120°
DMX in- and output	3- and 5-pin XLR
dimensions	455 x 221 x 103 mm
weight	4.5 kg
Fuse	T5A / 250 V

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).