

LX150

LUXIBEL - PIXDRIVE KLING-NET/ART-NET



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



	Be very careful during the installation: touching live wires can cause life-threatening electroshocks.
	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.
	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.
	Keep this device away from children and unauthorized users.
	Caution: device heats up during use.
	Do not stare directly at the light source , as this may cause <ul style="list-style-type: none"> • epileptic seizure in sensitive people • temporarily loss of sight (flash blindness) • permanent (irreversible) eye damage.
	There are no user-serviceable parts inside the device. Refer to an authorized dealer for service and/or spare parts.

- Only connect this product to a grounded and protected circuit.
- Do not connect this product to a dimmer or rheostat.

- Make sure that the available voltage does not exceed the voltage stated in the specifications of this manual.
- Do not crimp the power cord and protect it against damage. Have an authorised dealer replace it if necessary.
- 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.
- 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 should 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. The device should only be used indoors with the current as stated in the technical specifications.

- This device is designed for professional use on stage, in discos, theatres, etc. The device should only be used indoors.
- Use the original packaging if the device is to be transported.
- Keep this manual for future reference.

4. Features

- Kling-Net/Art-Net supported power/data
- for use with: LX151: PIXSTRIP (up to 16 pcs)
- works with any Kling-Net/Art-Net control program for pixel mapping
- ideally works with ARKAOS video mapper control program
- video replay when with ARKAOS
- 640 DMX channels, RDM ready
- 8 x 2 digit LCD display for menu settings
- Cat 5 cable for data connection, max. 10 m between the controller and the 4 strips
- equipped with Neutrik powerCON in/out

5. Overview



6. Protocols

Kling-Net

- ArKaos has designed the Kling-Net protocol to allow the distribution of real-time video data to remote display devices, such as LEDs or LED panels, over Ethernet.
- Kling-Net allows auto configuration of display devices using an etherCON® RJ 45 Ethernet connection.
- The device works best with the Arkaos Mediamaster™ Pro software and its Video Mapper extension (Mac and Windows).
- Refer to the ArKaos MediaMaster software manual for detailed instructions on programming this product (www.arkaospro.com).

Art-Net

- Art-Net is a communication system that allows DMX512 to be sent over Ethernet.
- The Art-Net protocol was developed by the company Artistic Licence Engineering and has now been published into the public domain.
- The protocol description is available on the following link:
www.artisticlicence.com/WebSiteMaster/User%20Guides/art-net.pdf
- Various commercial and open source programs support the Art-Net protocol.

7. Mounting and installation

Read the user manual thoroughly before installing through the device. The steps are:

1. Carefully remove all items from the package and place on a secure foundation.
2. Mount the device.
3. Install a power cable and connect to power.
4. Connect the device to your computer/controller via router.
5. Connect a Luxibel pixstrip (LX151). See section Connections below for details and a connection diagram.

7.2 Mounting Instructions

Mounting hardware is not included with the product.

Using mounting clamps:

1. Attach the clamp to the mounting bracket.
2. Attach a safety cable to the product's safety loop.
3. Attach the clamp to the desired structure or surface.
4. Attach a safety cable through the mounting points.

Using mounting points:

1. Screw product in the mounting points securely into a mounting surface.

8. Operation

General

- LX150 hosts the processing and power supply for the LX151. It controls up to 16 LX151 (or 4 LX152) using Arkaos Kling-Net™ or Art-Net.

Connection to computer and router

- It is recommended to use a router to connect your computer to the LX150.

Power Linking

The LX 150 supports power linking (power linking cord not included). You can power link up to 11 devices at 230 VAC.

Connecting devices to the LX150

- The LX150 uses an RJ45 data connection to link all data ports. You can connect either 4 Luxibel pixstrips (LX 151) or 1 pixbar (LX152) per output.
- Port 1 is for Universe or Channel 1, port 2 for Universe or Channel 2, and so on.

Menu options

Main menu	Options	Description
Input Mode	Kling-Net/Art-Net	Selects the input protocol
IP Mode	Manual	Manually set the IP address
	Static	Static IP address
	DHCP	Receives the IP address from the DHCP
Net	000 - 127	Sets the Net address
Subnet	00 - 15	Sets the subnet address
Universe #1	00 - 15	Sets the universe #1 address
Universe #2	00 - 15	Sets the universe #2 address
Universe #3	00 - 15	Sets the universe #3 address
Universe #4	00 - 15	Sets the universe #4 address
Channel #1	001 - 393	Sets the channel #1 address
Channel #2	001 - 393	Sets the channel #2 address
Channel #3	001 - 393	Sets the channel #3 address
Channel #4	001 - 393	Sets the channel #4 address
IP Address	Shows IP address	
Device ID	Shows the device ID	

Main menu	Options	Description
Output Test	Red	Illuminates all red, green, blue, and white LEDs
	Green	
	Blue	
	White	
	Colour Scroll	Scrolls through different colours
	Colour Change	Blends through all different colours

9. 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

1. Disconnect the device from power.
2. Unscrew the fuse holder cap from the housing.
3. Remove the blown fuse and replace with a good fuse of the same type and rating.
4. Screw the fuse holder cap back into place and reconnect the power.

10. Technical Specifications

power supply	230 Vac 50 Hz
power consumption	300 W

LX150

refresh rate	400 Hz
dimensions	210 x 210 x 80 mm
weight	4.5 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).

Made in PRC
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