USER MANUAL

eurolite®

EDX-1 MK2 DIMMER PACK

DANGER! Electric shock caused by short-circuit
Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching the wires. Never open the housing. Keep the device away from rain and moisture.

Please read these instructions carefully before using the product. They contain important information for the correct use of the product.

Every person involved with the installation, operation and maintenance of this device has to
- be qualified
- follow the instructions of this manual
- consider this manual to be part of the total product
- keep this manual for the entire service life of the product
- pass this manual on to every further owner or user of the product
- download the latest version of the user manual from the Internet

INTRODUCTION

Thank you for having chosen one of our products. If you follow the instructions given in this manual, we are sure that you will enjoy this device for a long period of time.

Product features

Compact 1-channel DMX dimmer
• Maximum adjustable output 10 A
• Selectable dimmer or switch pack operating mode
• LED display for DMX addressing and menu settings
• 3-pin XLR DMX input and output socket for remote control via DMX512
• Output via 1 safety socket
• Dimmer value adjustable without external control
• Brightness directly adjustable via sliding fader (HTP)
• External sliding fader including supply line
• Wall, ceiling or trussing installation possible

SAFETY INSTRUCTIONS

> ⚠️ **WARNING!**
> Please read the safety warnings carefully and only use the product as describe in this manual to avoid accidental injury or damage.

Intended use
- The EDX-1 MK2 is a compact 1-channel dimmer to control the brightness of connected spotlights on stage or in clubs. It can be controlled via DMX signal from a light console. All menu settings can be made via the built-in control panel with LED display. The housing has threads for fixing the unit to a truss.
- This device is designed for professional use in the field of event technology, e.g. on stage. It is not suitable for household lighting.
- Only use the device according to the instructions given herein. Damages due to failure to follow these operating instructions will void the warranty! We do not assume any liability for any resulting damage.
- We do not assume any liability for material and personal damage caused by improper use or non-compliance with the safety instructions. In such cases, the warranty/guarantee will be null and void.
- Unauthorized rebuilds or modifications of the device are not permitted for reasons of safety and render the warranty invalid.

Danger due to electricity
- The device is suitable for indoor use only. Do not use it outdoors. Never expose it to rain or moisture. Do not store it in rooms exposed to moisture.
- To reduce the risk of electric shock, do not open any part of the device. There are no serviceable parts inside the device.
- Only connect the device to a properly installed mains outlet. The outlet must be protected by residual current breaker (RCD). The voltage and frequency must exactly be the same as stated on the device. If the mains cable is equipped with an earthing contact, then it must be connected to an outlet with a protective ground. Never defeat the protective ground of a mains cable. Failure to do so could result in damage to the device and possibly injure the user.
- The mains outlet must be easily accessible so that you can unplug the device quickly if need be.
- Never touch the mains plug with wet or damp hands. There is the risk of potentially fatal electric shock.
- The mains cable must not be bent or squeezed. Keep it away from hot surfaces or sharp edges.
- Never pull the mains cable to disconnect the mains plug from the mains outlet, always seize the plug.
- Unplug the device during lighting storms, when unused for long periods of time or before cleaning.
- Do not expose the device to any high temperatures, direct sunlight, dripping or splashing water, strong vibrations or heavy mechanical stress.
- Do not place any objects filled with liquids on the device.
- Do not place any open sources of fire, such as burning candles, on or directly next to the device.
- Make sure that objects cannot fall into the device, in particular metal parts.
- Only have repairs to the device or its mains cable carried out by qualified service personnel. Repairs are required when the device or the mains cable is visibly damaged, liquid has been spilled or objects have fallen into the device; when the device has been exposed to rain or moisture, has been dropped or malfunctions occur.
- Cleaning of the device is limited to the surface. Make sure that moisture does not come into contact with any areas of the terminal connections or mains voltage control parts. Only wipe off the product with a soft lint-free and moistened cloth. Never use solvents or aggressive detergents.

Danger to children and people with restricted abilities
- This product is not a toy. Keep it out of the reach of children and pets. Do not leave packaging material lying around carelessly. Never leave this device running unattended.
- This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Warning – risk of burns and fire
- The admissible ambient temperature range is -5 to +45°C. Do not operate the device outside of this temperature range.
- Do not use the device near highly flammable materials. Always place the device at a location where sufficient air circulation is ensured. Leave 50 cm of free space around the device. Never cover the air vents of the housing.
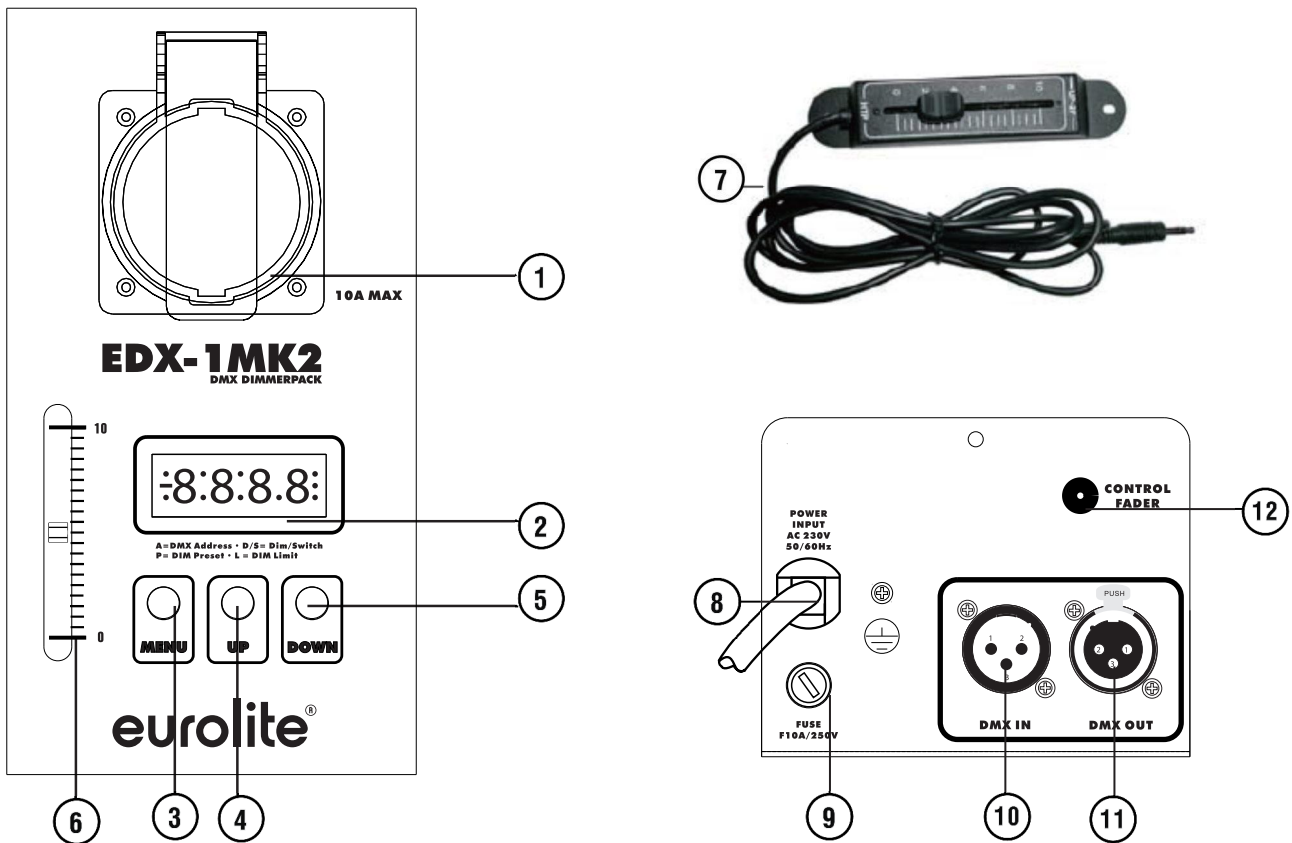
Warning – risk of injuries
- Do not look directly at the light source. Persons with light-sensitive epilepsy may suffer from epileptic seizures or fall unconscious.
- Make sure that the product is set up or installed safely and expertly and prevented from falling down. Comply with the standards and rules that apply in your country, in particular EN 60598-2-17.
- If you lack the qualification, do not attempt the installation yourself, but instead use a professional installer. Improper installation can result in bodily injury and or damage to property.
- The manufacturer cannot be made liable for damages caused by incorrect installations or insufficient safety precautions.
- For overhead use, always secure the device with a secondary safety attachment such as a safety bond or safety net.
- Make sure that the area below the installation place is blocked when rigging, derigging or servicing the device.
- For commercial use the country-specific accident prevention regulations of the government safety organization for electrical facilities must be complied with at all times.

Caution – material damage
- If the device has been exposed to drastic temperature fluctuation, do not switch it on immediately. The resulting condensation may destroy the device. Allow the device to reach room temperature before connecting it. Wait until the condensation has evaporated.
- Please use the original packaging to protect the device against vibration, dust and moisture during transportation or storage.
- If a serial number label is affixed to the device, do not remove the label as this would make the guarantee void.

OPERATING ELEMENTS AND CONNECTIONS

No.	Element	Function
1	Safety socket	To connect the load (max. 10 A)
2	Display	Indicates the current value or setting: A = DMX address, P = Dimmer preset (brightness), L = Dimmer limit, d or S = Dimmer / Switch function, S-off = Switch function off, S-on = Switch function on or at 50% via sliding fader
3	Button MENU	To switch between the different menu items
4	Button UP	To increase values
5	Button DOWN	To decrease values
6	HTP fader	To directly adjust the brightness; disabled when remote control (7) is plugged in (HTP = Highest takes precedence)
7	Remote control	External sliding fader with the same functions as the HTP fader (6)
8	Power cord	To connect the device to 230 V power outlet
9	Fuse housing	Houses a 10 A, 250 V, 5 x 20 mm fuse
10	DMX input	3-pin XLR male socket, used to receive DMX data
11	DMX output	3-pin XLR female socket, used to send DMX data
12	3.5 mm jack	To connect the external fader (7)

INSTALLATION

⚠ **WARNING! Risk of injury caused by falling objects**
Devices in overhead installations may cause severe injuries when crashing down. Make sure that the device is installed securely and cannot fall down. The installation must be carried out by a specialist who is familiar with the hazards and the relevant regulations.

The device may be placed on the floor or fastened to a truss or similar rigging structure. The device must never be fixed swinging freely in the room.

1   The rigging structure must support at least 10 times the weight of all fixtures to be installed on it.

2   Block access below the work area and work from a stable platform when installing the device.

3   Use rigging hardware that is compatible with the structure and capable of bearing the weight of the device. Please refer to the "Accessories" section for a list of suitable rigging hardware.

4   Secure the device with a safety bond or other secondary attachment. This secondary safety attachment must be sufficiently dimensioned in accordance with the latest industrial safety regulations and constructed in a way that no part of the installation can fall down if the main attachment fails. Pull the safety bond through the hole in the bracket and fasten it in such a way that, in the event of a fall, the maximum drop distance of the device will not exceed 20 cm.

5   After installation, the device requires inspections periodically to prevent the possibility of rot, deformation and looseness.

CONNECTIONS

Spotlights

⚡ **DANGER TO LIFE!**
A dangerous mains voltage may be present at the sockets. Prior to connecting spotlights, disconnect the unit in any case from the mains!

Connect your loads to the safety socket. It is possible to connect all types of dimmable light sources which work with an operating voltage of AC 230 V. The maximum load is 2300 W (10 A).

DMX512 control

A DMX512 data link is required in order to control the device via DMX. The device provides 3-pin XLR connectors for DMX connection.

1   Connect the output of your DMX controller to the DMX input DMX IN of the light set with a DMX cable.

2   Connect the DMX output DMX OUT of the light set to the DMX input of the next unit in the chain. Always connect one output to the input of the next unit until all units are connected.

3   At the last unit, the DMX cable has to be terminated. Plug the terminator with a 120 Ω resistor between Signal (–) and Signal (+) in the DMX output of the last unit.

4   If the cable length exceeds 300 m or the number of DMX devices is greater than 32, it is recommended to insert a DMX level amplifier to ensure proper data transmission.

XLR connection:

DMX-output
XLR mounting-socket:

1: Ground
2: Signal (–)
3: Signal (+)
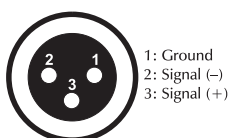
DMX-input
XLR mounting-plug:

1: Ground
2: Signal (–)
3: Signal (+)

OPERATION

Plug the mains cable into an appropriate 230 V power outlet. When powered on the display indicates the last set DMX address setting. If the power frequency is not stable, the display indicates "AC-0" until the power supply is more stable. The operating modes can be selected by means of the display and the control buttons. All settings remain stored even if the device is disconnected from the mains. The unit can be controlled via DMX signal from a light console. To switch off the unit, pull the power plug.

DMX addressing
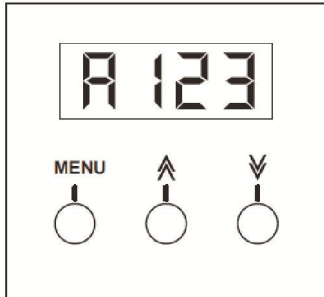
1. Press the **MENU** button so many times until the display indicates mode "A" for DMX addressing. If the last set DMX address was 123, the display indicates "A 123".
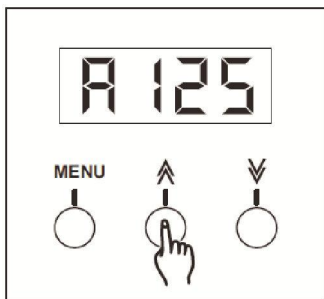
2. Use the **UP** and **DOWN** buttons to set the DMX address. Keep **UP** or **DOWN** pressed to scroll through the values faster.

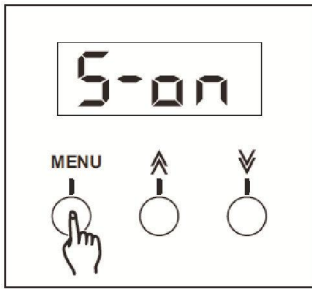**NOTE:** Channel output is disabled during DMX address settings.
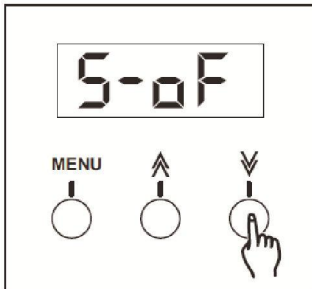
Switch pack mode
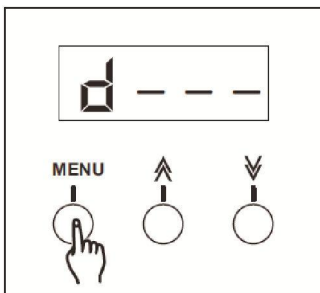
1. The dimmer pack can be switched from a linear dimming curve to the Switch Pack mode. Press the **MENU** button so many times until "d" for dimming function appears on the left hand side of the display.
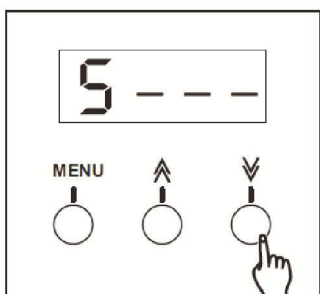
2. Press the **DOWN** button. The display indicates "**S**".

3. Press **MENU** to enter switch pack mode.

4. Switch the load on and off with the buttons **UP** and **DOWN**. The button **UP** switches the load on, regardless of the DMX signal. (Display indicates **S-on**.) This mode does not allow for remote control via DMX.

DOWN switches the load on when DMX control exceeds 50% and switches it off when DMX control is below 50 %. (Display indicates **S-oF**.)
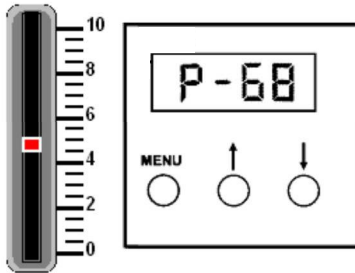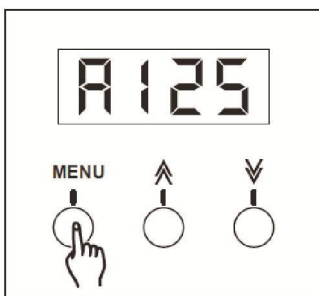
5. Switching the load on/off via fader

If a value exceeding 50% is set via the sliding fader, the load is switched on. You can also use the external fader to switch the load on/off. When the external fader is plugged in, the internal fader is disabled.

Here too, the highest value of the different control elements (fader or DMX) takes precedence.

Dimmer pack mode

1. If the EDX-1 MK2 is not to be controlled via an external DMX controller but dim the load directly, switch to dimmer pack mode. Press **MENU** so many times until the display indicates "**d**" for dimmer function.
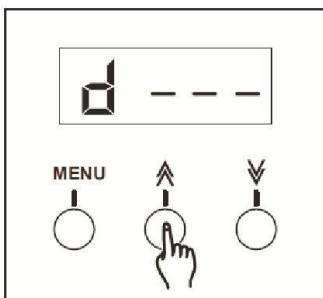
2. If Switch Pack mode is active, the display indicates "**S**". Then press **UP** once. Now the display indicates "**d**".
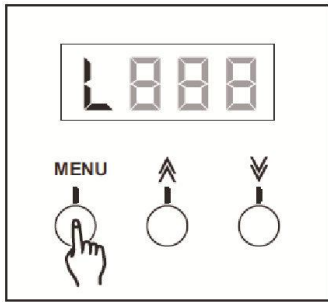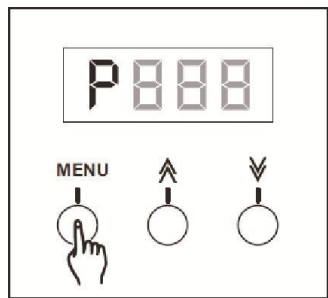
3. Press **MENU** to enter Dimmer Limit mode. In this mode, you can limit the output of the EDX-1 MK2.
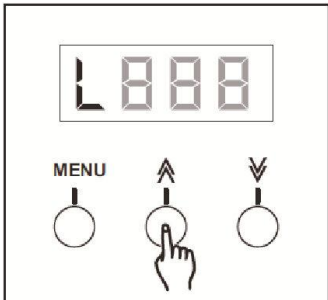
4. Use **UP** and **DOWN** to increase or decrease the output limit from 10-100%. Keep **UP** or **DOWN** pressed to scroll through the values faster.

After a certain period of inactivity, the display goes back to DMX address settings.

5. Press **MENU** to enter dimmer preset mode. In this mode, you can adjust the brightness.
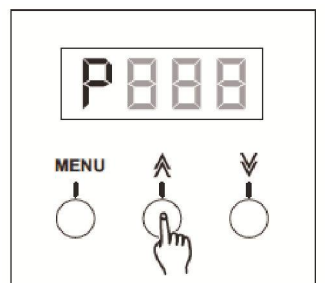
6. Use **UP** and **DOWN** to continuously dim the load between 0-100%. Keep **UP** or **DOWN** pressed to scroll through the values faster.

After a certain period of inactivity, the display goes back to DMX address settings.
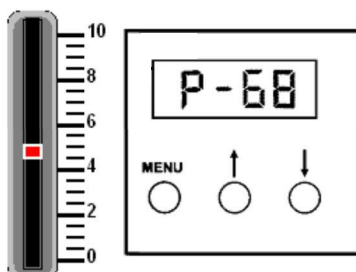
7. Dimming via fader

The brightness can be adjusted via the internal or external fader at any time. When the external fader is plugged in, the internal fader is disabled.

Here too, the highest value of the different control elements (fader or DMX) takes precedence.

CLEANING AND MAINTENANCE

The outside of the device should be cleaned periodically to remove contaminants such as dust etc.

1   Disconnect the device from power and allow it to cool before cleaning.
2   Clean the surface with a soft lint-free and moistened cloth. Never use alcohol or solvents as these may damage the surface. Make sure that no liquids can enter the device.
3   The device must be dry before reapplying power.

There are no serviceable parts inside. Do not open the housing. Do not try to repair the device by yourself as this may result in damage. Maintenance and service operations are only to be carried out by authorized dealers. Should you need any spare parts, please use genuine parts. Should you have further questions, please contact your dealer.

Replacing the fuse

If the fine-wire fuse of the device blows, only replace the fuse by a fuse of same type and rating.

1   Disconnect the device from power and allow it to cool.
2   Open the fuse holder of the mains connection with a fitting screwdriver.
3   Remove the old fuse from the fuse holder and replace it with a new fuse.
4   Carefully push the fuse holder back into its position before reapplying power.

PROTECTING THE ENVIRONMENT

Disposal of old equipment
When to be definitively put out of operation, take the product to a local recycling plant for a disposal which is not harmful to the environment. Devices marked with this symbol must not be disposed of as household waste. Contact your retailer or local authorities for more information. Remove any inserted batteries and dispose of them separately from the product.

You as the end user are required by law (Battery Ordinance) to return all used batteries/ rechargeable batteries. Disposing of them in the household waste is prohibited. You may return your used batteries free of charge to collection points in your municipality and anywhere where batteries/rechargeable batteries are sold. By disposing of used devices and batteries correctly, you contribute to the protection of the environment.

TECHNICAL SPECIFICATIONS

Power supply:	230 V AC, 50 Hz
Max. power output:	2300 W
Max. total current:	10 A
Fuse:	F 10 A, 250 V, 5 x 20 mm
Number of channels:	1
Output socket:	1 safety outlet
DMX output:	3-pin XLR female
DMX input:	3-pin XLR male
Dimensions:	182 x 92 x 65 mm
Weight:	1.1 kg

All information is subject to change without prior notice. © 03.05.2018

Occupation of the XLR connection:

DMX Output   **DMX Input**

1: Ground
2: Signal (–)
3: Signal (+)
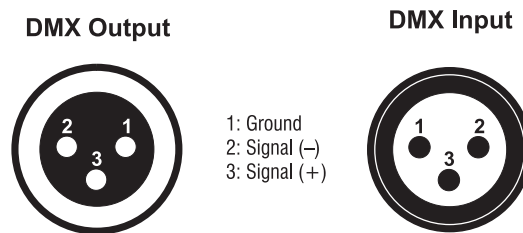
Accessories

EUROLITE TPC-10 Coupler, silver	No. 59006856
EUROLITE Safety Bond A 3x600mm up to 5kg, silver	No. 58010310
EUROLITE DMX Cable XLR 3pin 3m, bk	No. 3022785H
EUROLITE TPC-10 Coupler, bk	No. 59006858
ACCESSORY Eye Bolt M8	No. 30001165