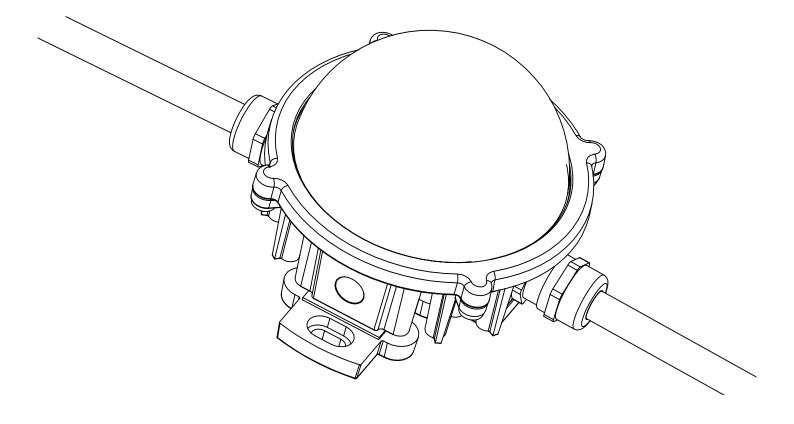
GRAPH-i-CELL

AL2076 AL2086 AL2088



Manuale di istruzioni Instructions manual



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1.0 Introduction

1.1 Safety information

Warning!

This unit is suitable for professional use only, not for domestic use.

1.1.1 Protecting against electric shock



Class 3 device. It uses operating voltages inferior to 50 Volts. It excludes ground connection.

- Disconnect the unit from mains supply before servicing it or performing any other action.
- Before connecting the unit to power supplies, verify that operating voltage and frequency are compatible.
- Do not handle the unit with wet hands or in the presence of water.
- Check regularly that the power supply cable is not damaged or crushed.
- Apply to a qualified technician for any regular maintenance action not described in this manual.

1.1.2 Installation

- Fix the unit with screws, hooks or any other support able to bear the weight of the unit itself.
- If the unit is fixed onto a suspended structure, this structure is supposed to bear at least ten times the weight of all devices to be fixed.
- The unit installation actions must be performed by a qualified staff.

1.1.3 Protection against burns and fire



Suitable to be installed onto normally inflammable surfaces.

• Non installate l'apparecchio in locali in cui la temperatura ambiente supera i 40° (104°F).

1.1.4 Weather protection

The unit is classified as device with an IP65 weather protection rate.

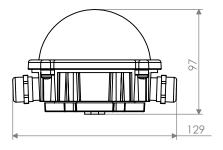
1.2 Compliance

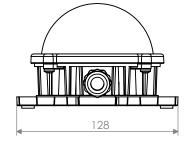


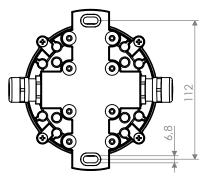


- Product in compliance with EN60598-1 EN60598-2-17.
- Product in compliance with 2002/95/CE (RoHS).

2.0 Size







3.0 Packaging and transport

3.1 Packaging

Check carefully the content of the box and, in case of damage, contact your forwarder immediately. The following items are included in the box of this unit:

- n° 1 **Graph-i-Cell** (AL2076 or AL2086 or AL2088)
- n° 1 owner's manual
- nº 1 connection kit

Warning!

- Griven S.r.I. liability will cease upon consignment of goods to the forwarder: claims for damage due to transport must be addressed directly to the forwarder.
- Griven S.r.l. will accept claims for broken or missing goods only within seven days of receipt of the goods.
- Returns of equipment will not be accepted without prior authorization granted by Griven S.r.l. and if not duly accompanied by relevant shipping documents.

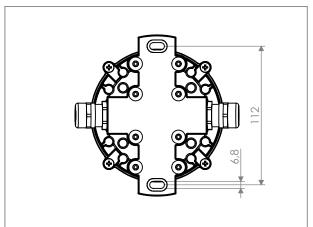
3.2 Transport

It is recommended to transport the unit with the maximum care, by using its original packing, to avoid to damage the unit.

4.0 Installation

4.1 Fixing

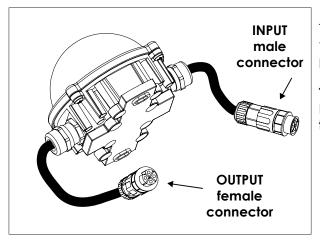
The unit can be used both rested on floor and fixed onto a structure. The unit can operate in any position.



Use the two Ø6.8 holes (0.26") on the box in order to fix the device

Warning! Make sure that the structure can hold up to 10 times its weight.

4.2 Connection to main power and DMX signal



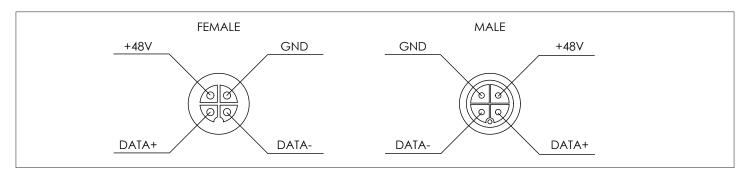
The unit is fitted with IP68 connectors for the connection of the of the main supply and of the DMX signal, as shown in the pictures.

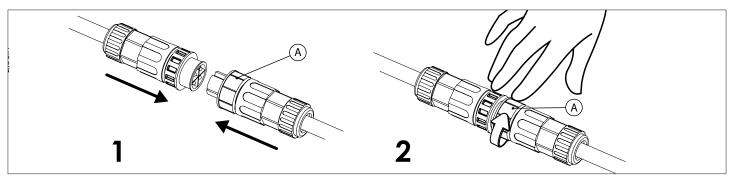
To connect the control signal or the line terminal plug, EXCLUSIVELY GRIVEN cable are to be used, in order to preserve the IP68 weather protection rate.

The unit operate with voltage of 48VDC.

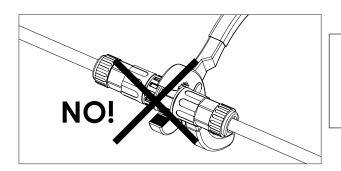
Warning!

- Before connecting the unit, verify that power supplies features are compatible with the unit features.
- It is suggested to use a magnetothermic switch along the power supply line, as prescribed by in force rules.
- The unit must not be powered up through a dimmer power device.
- Wiring and connection actions are to be performed by a qualified staff.



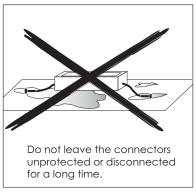


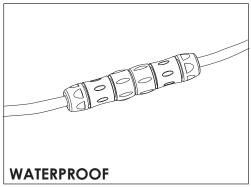
Plug the connectorsby screwing the ring "A" by hand.



Warning!

Do not screw the connectors with pliers or other tools, as they might damage.







Leaving the connectors unprotected or disconnected may cause water infiltrations and consequent product malfunctioning.

Should it not be possible to connect the units during the installation phase, please protect their connectors with suitable caps.

The output connector of the chain last fixture must necessarily and permanently be protected by a suitable cap or end line cap, if required.

Warning! Connect the units only after disconnecting the mains!

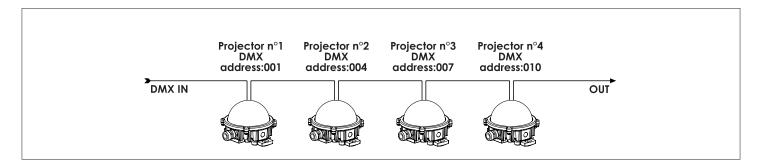
5.0 Use of the unit

The Graph-i-Cell unit has been designed for use "plug and play".

After being connected to power supplies and DMX signal, in fact, the unit is ready to be used and no sort of intervention is necessary.

Each unit uses **3** DMX channels and is fitted with a self-addressing system. By this system, connecting the **Graph-i-Cell** units in series, each unit automatically sets its own initial DMX address, starting from the channel following the one of the previous unit.

The following picture shows a connection example.

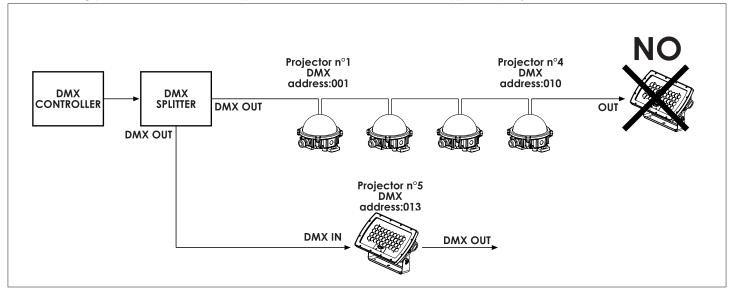


Warning!

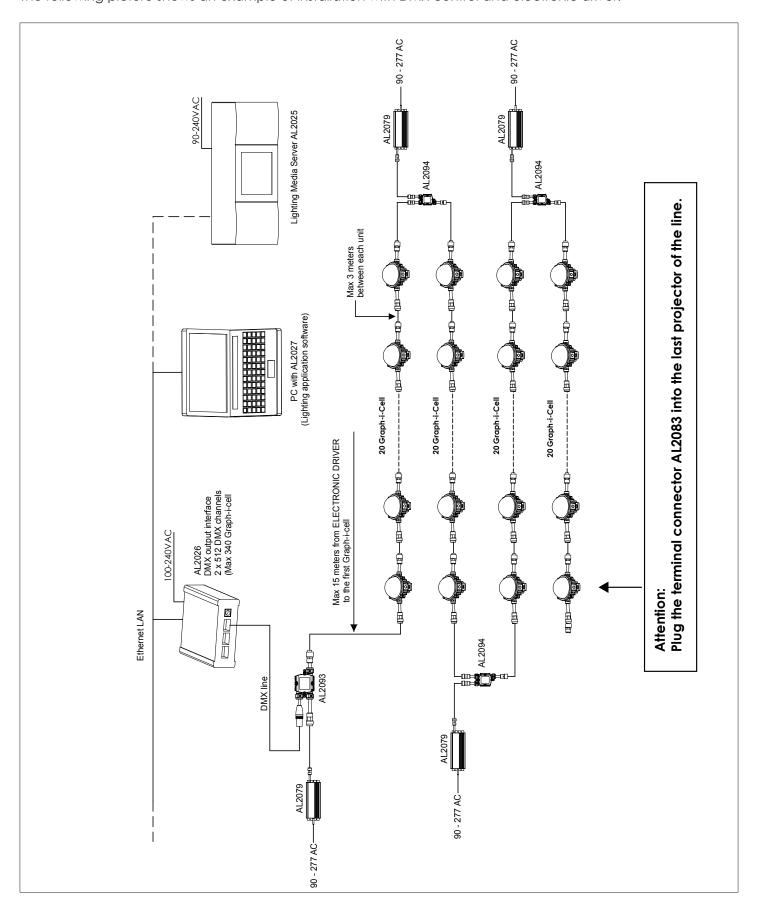
The Graph-i-Cell output DMX signal cannot be used to control different models of projectors!!

If different projectors are in the same DMX universe, they must be put in the output DMX line of the controller and set by considering the channels used by the Graph-i-Cell units.

The following picture shows an example of installation with different types of projectors.



The following picture shows an example of installation with DMX control and electronic driver.



Warning!

The maximum cable length between the electronic driver AL2079 and the first unit is 15 mt.

The maximum cable length between one unit and the next one is 3 mt.

5.1 DMX functions AL2076

| Channel | Function | Value | Description |
|---------|----------|-------|--|
| 1 | Red | 0-255 | Proportional control 0-100% of the Red color |
| 2 | Green | 0-255 | Proportional control 0-100% of the Green color |
| 3 | Blue | 0-255 | Proportional control 0-100% of the Blue color |

5.1 DMX functions AL2086/AL2088

| Channel | Function | Value | Description |
|---------|----------|-------|-----------------------------|
| 1 | White | 0-255 | Proportional control 0-100% |

6.0 Spare parts

All the components of the unit are available as spare parts at **Griven's** dealers. The exploded views, the wiring diagram, the electronic layout and the advertising brochure are available on request.

To make aftersale assistance easier, remember to specify the serial number and the model of the fixture which the spare parts are requested for.

7.0 Disposal

The European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE), requires that old lighting fixtures must not be disposed of the normal unsorted municipal waste stream. Old appliances must be collected separately in order to optimise the recovery and recycling of the materials they contain and reduce the impact on human health and the environment.



The crossed out "wheeled bin" symbol on the product reminds you of your obligation, that when you dispose of the appliance it the must be separately collected.

Consumer should contact their local authority or retailer for information concerning the correct disposal of their old appliance.

8.0 Technical specifications

| Mechanical features AL2076 AL2086 AL2088 |
|---|
| Height |
| Length |
| Width128mm (5.08") |
| Weight |
| Mechanical features AL2011 |
| Height |
| Lenght |
| Width90mm (3.54") |
| Weight |
| Thermal features |
| Maximum ambient temperature20°C (-4°F) |
| Maximum ambient temperature |
| Maximum surface temperature |
| Electrical features |
| Power supply voltage |
| Maximum power |
| Light output source |
| Type of light output source |
| Optics |
| Optical system |
| Control AL2076 |
| Protocol |
| Control channel |
| Control AL2086/AL2088 |
| Protocol |
| Control channel |
| Housing |
| Unit bodyAluminium and opaline polymer body |
| Treatment |
| Weather protection rate |



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User's manual release 2.30