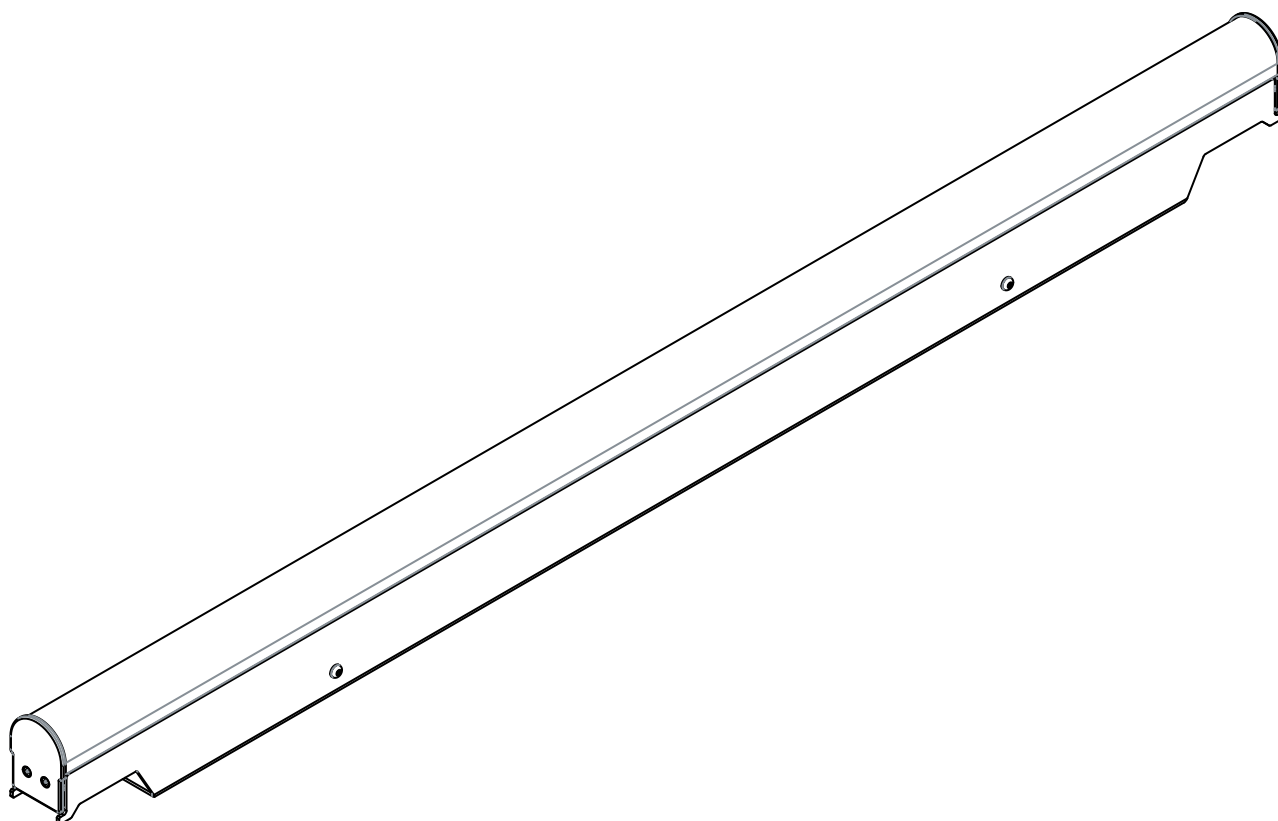


Graph-i-Line

AL4376 - AL4375



Manuale di istruzioni
Instructions manual



GRIVEN

world lighting challenge

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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.
- Disconnect the unit from mains supply before connecting fixture to fixture.
- 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.
- 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.
- The unit is not to be installed in places where the ambient temperature exceeds 45° (122°F).

1.1.4 Weather protection

The unit is classified as device with an IP66 weather protection rate.

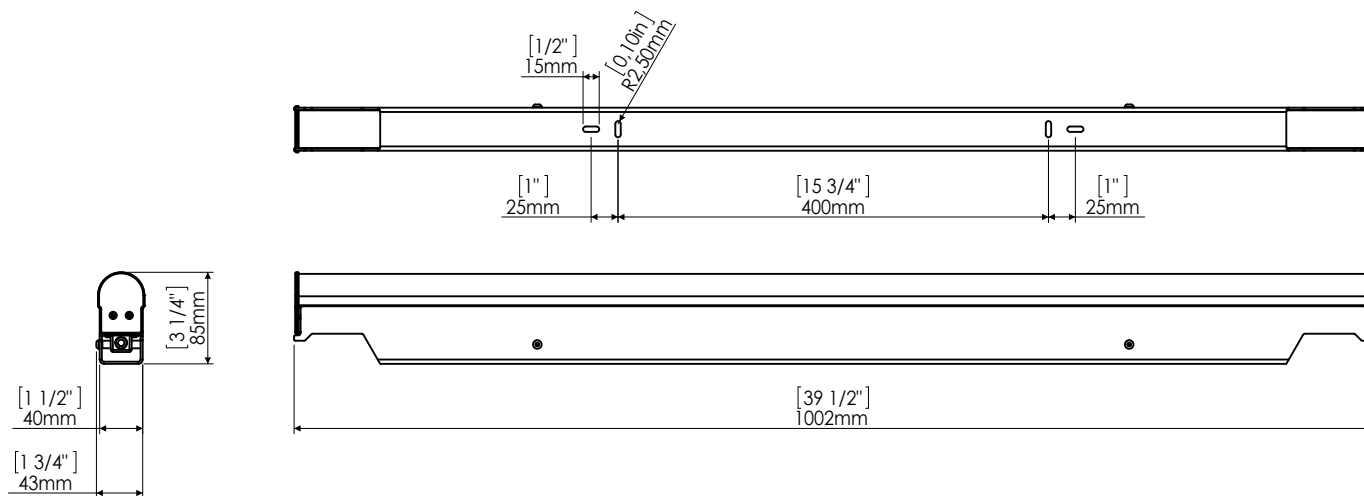
1.2 Compliance



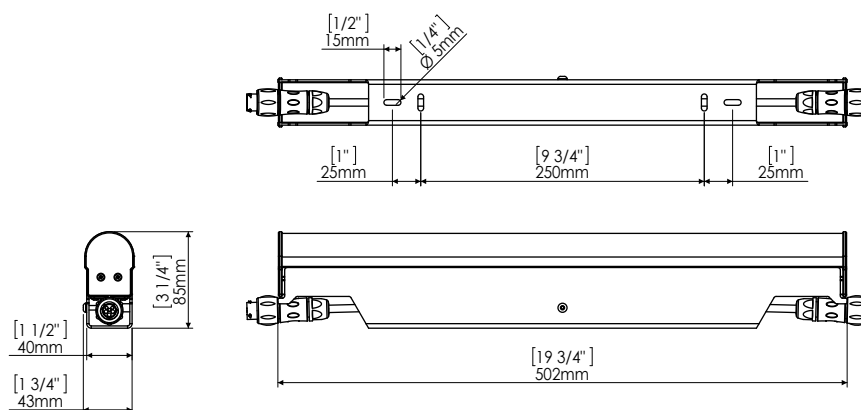
- Product in compliance with EN60598-1 EN60598-2-17.
- Product in compliance with 2002/95/CE (RoHS).

2.0 Size

2.1 Size AL4376



2.3 Size AL4375



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-Line 20 or Graph-i-Line 40** unit
- n° 1 owner's manual

Warning!

- Given S.r.l. liability will cease upon consignment of goods to the forwarder: claims for damage due to transport must be addressed directly to the forwarder.
- Given 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 Given S.r.l. and if not duly accompanied by relevant shipping documents.

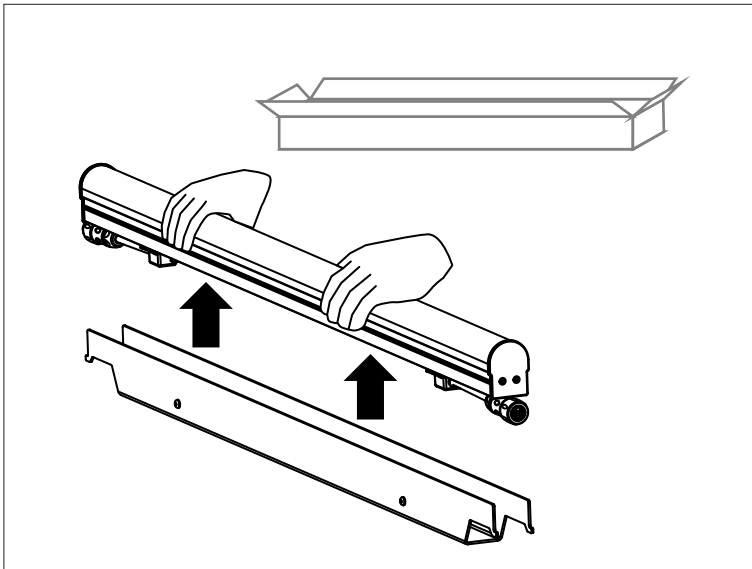
3.2 Transport

The carton box has not been designed to be used more than once, therefore, it is recommended to use one of our flight cases to transport the unit.

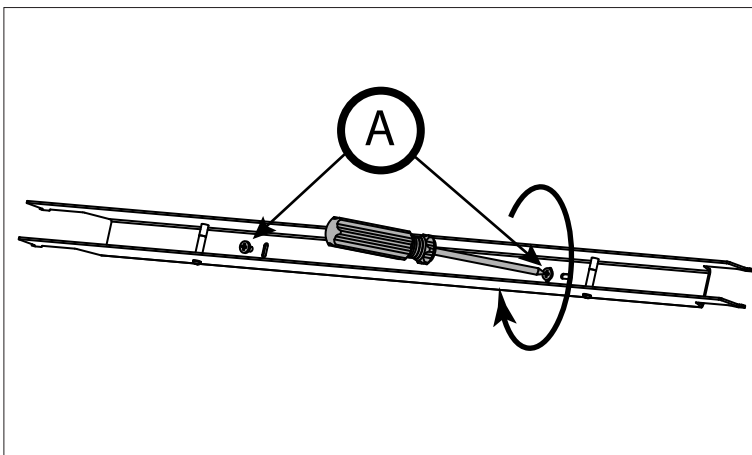
4.0 Installation

4.1 Fixing

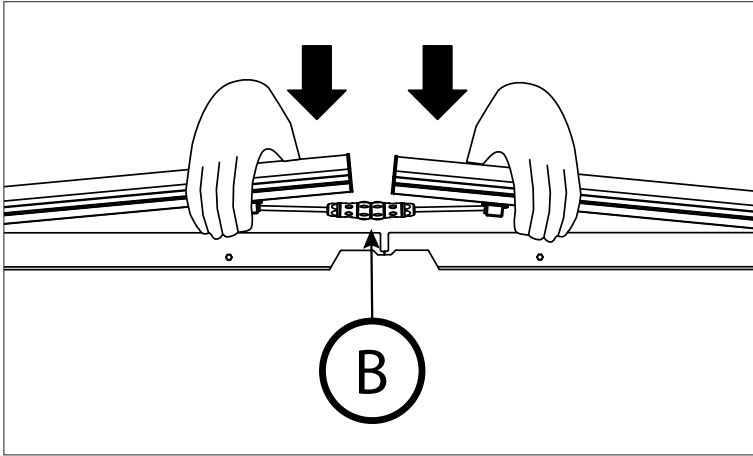
The unit can be used both rested on floor and fixed onto a structure. The unit can operate in any position.



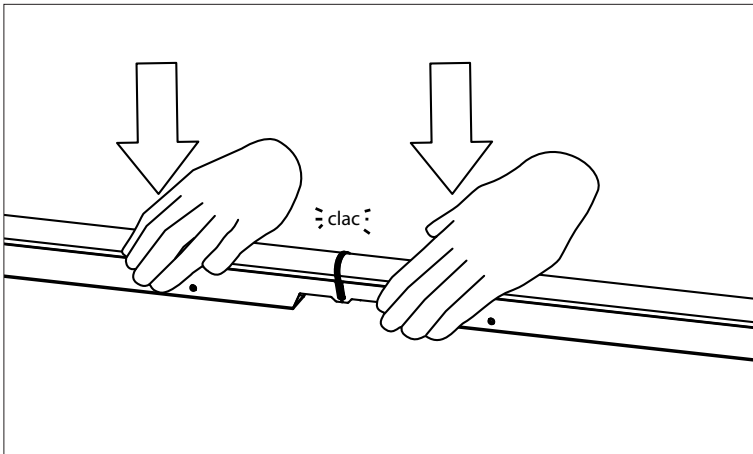
Pull out the content from the box and remove the main fixture from the fixing support.



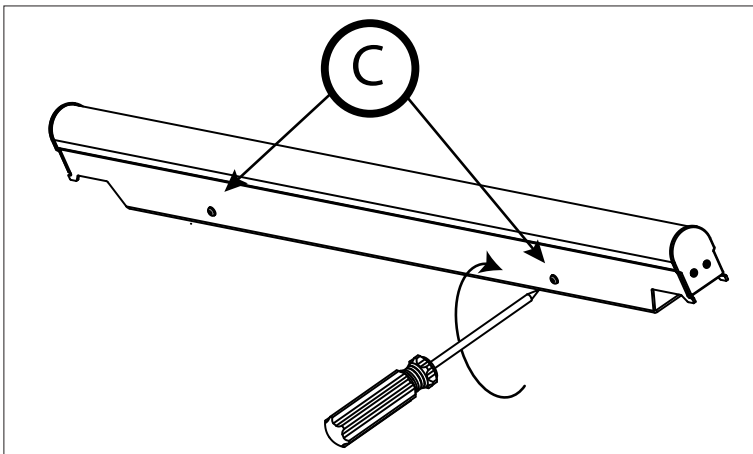
Fit the fixing support onto the predetermined surface by "A" holes. Drilling reference can be consulted in the previous chapter.



Connect the male connector "**B**" together with the female connector from the previous fixture.



Gently push down the fixtures inside their fixing support.



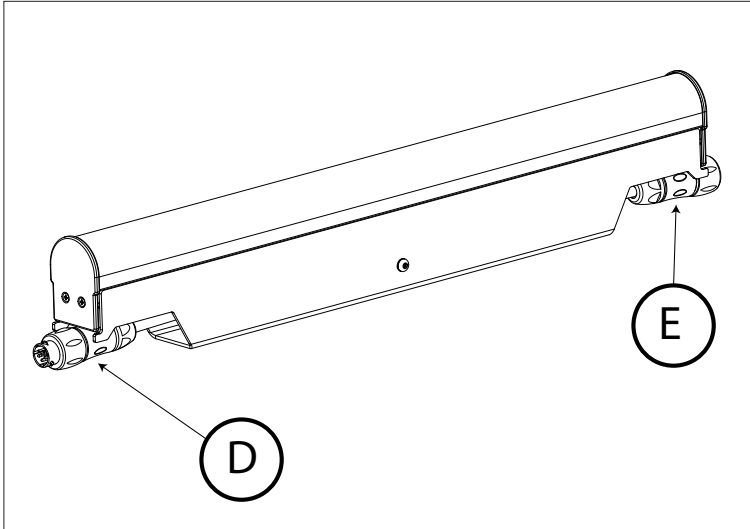
Tighten the "**C**" screws placed on the side of the support in order to lock the fixture inside.

4.2 Connection to mains power and DMX signal

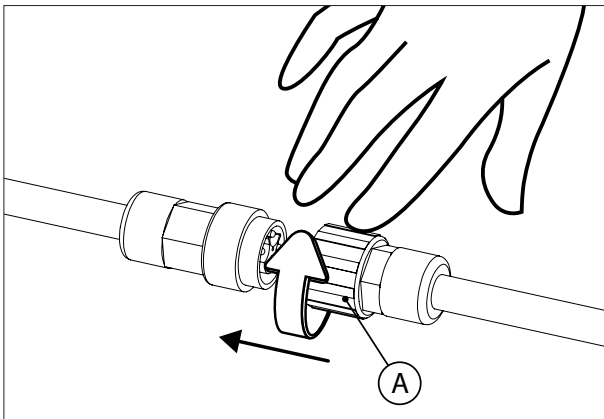
The unit operate with voltage of 48VDC.

Warning!

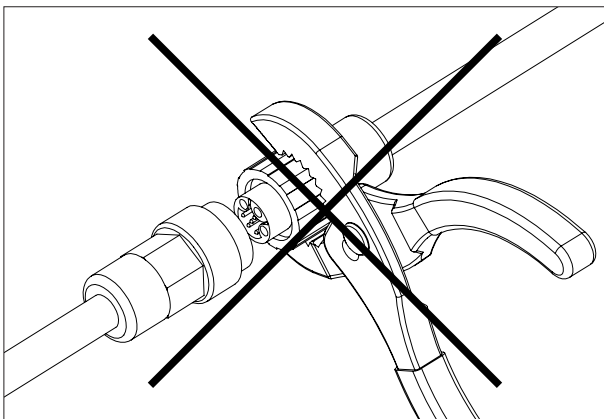
- Before connecting the unit, verify that power supplies features are compatible with the unit features.
- It is suggested to use a magnetothermic switch along the power supply line, as prescribed by in force rules.
- The unit must not be powered up through a dimmer power device.
- Wiring and connection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



The unit is fitted with plug “D” and socket “E” for the connection of the of the power supply and DMX, as shown in the pictures.



Plug the connectors by screwing the ring “A” by hand.



Warning!

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

[illegible]

This is only an example of configuration scheme. Other configurations can be studied in relation to the client needs.

5.2 DMX address setting

The DMX address can be set only by using the accessory **AL2660 Weezerd 1**. Refer to the manual of the accessory.

Attention!

- The DMX address must be set only on the first unit of the daisy-chain.

The order receipt is confirmed by the lighting of the green, red and blue LEDs in sequence.

5.3 Setting DMX mode AL4375

The DMX mode can be set only by using the accessory **AL2660 Weezerd 1**. Refer to the manual of the accessory.

DMX MODE	DMX CHANNELS USED BY THE UNIT	N° PIXELS
0	60	20
1	30	10
2	15	5
3	12	4
4	6	2
5	3	1

The order receipt is confirmed by the lighting of all the LEDs in sequence according to the selected DMX mode.

5.4 DMX Functions AL4375

Attention!

In the absence of DMX signal, the LEDs will run a diagnostic lighting test as soon as the fixture is powered and then they will stay off.

Each unit uses from **3** to **60** DMX channels.

DMX CHANNELS USED BY THE UNIT	N° PIXELS
60	20
30	10
15	5
12	4
6	2
3	1

For each pixel see the following table:

Function	Value	Description
Red	0-255	Proportional control 0-100% of the Red color
Green	0-255	Proportional control 0-100% of the Green color
Blue	0-255	Proportional control 0-100% of the Blue color

5.5 Setting DMX mode AL4376

The DMX mode can be set only by using the accessory **AL2660 Weezerd 1**. Refer to the manual of the accessory.

DMX MODE	DMX CHANNELS USED BY THE UNIT	N° PIXELS
0	120	40
1	60	20
2	30	10
3	24	8
4	12	4
5	6	2

The order receipt is confirmed by the lighting of all the LEDs in sequence according to the selected DMX mode.

5.6 DMX Functions AL4376

Attention!

In the absence of DMX signal, the LEDs will run a diagnostic lighting test as soon as the fixture is powered and then they will stay off.

Each unit uses from **6** to **120** DMX channels.

DMX CHANNELS USED BY THE UNIT	N° PIXELS
120	40
60	20
30	10
24	8
12	4
6	2

For each pixel see the following table:

Function	Value	Description
Red	0-255	Proportional control 0-100% of the Red color
Green	0-255	Proportional control 0-100% of the Green color
Blue	0-255	Proportional control 0-100% of the Blue color

6.0 Thermal protection

An internal temperature sensor prevents the unit from overheating. The temperature sensor will limit the current to leds, protecting their integrity, if the ambient temperature exceeds the one allowed.

7.0 Maintenance

Attention!

Always remove mains power prior to opening up the fixture.

To ensure maximum functionality and light output it is recommended to follow these instructions:

7.1 Cleaning the unit

The unit must be cleaned regularly. Cleaning regularity will depend especially on the environment where the unit will operate: deposits of dust, smokes or other wastes will reduce the light output performances.

- Clean regularly the glass of the unit.
- Be careful when cleaning the components. Operate in a clean, properly illuminated environment.
- Do not use solvents which could damage painted surfaces.
- Remove left particles by a cotton towel dampened with a glass-cleaning liquid or distilled water.
- Remove smoke and other wastes by a cotton towel dampened with isopropyl alcohol.
- Dry out by a clean, soft, non-scratching towel or by compressed air.

7.2 Regular checks

- Check electrical connections, especially the ground wiring and the power supply cable.
- Check that the unit is not damaged mechanically. Replace those components which have got deteriorated.

8.0 Spare parts

All components of the unit are available as spare parts at **Griven** dealers.

Exploded views, wiring diagrams, electronic layouts and advertising brochures are available on request.

To make the job of assistance centres easier, specify serial number and model of the unit which spare parts are requested for.

9.0 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 must be separately collected.

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

10.0 Troubleshooting

Inconvenience	Possible Cause	Action
The unit does not respond properly to the DMX control.	Incorrect DMX cable connection.	Check connections and wires. Rectify inefficient connections. Repair or replace damaged wires.
	Unfinished data connection.	Insert a terminal plug in the output jack of the last unit of the connection.
	Incorrect address assignment to the units.	Check the addresses of the units and the protocol settings.
	One of the unit is faulty and it is affecting the data transmission along the connection.	Short-circuit units singularly, one by one, since regular working is restored.
	It has been set up an operating mode different from the DMX mode used.	Check the operating mode set up.

11.0 Technical specifications

Mechanical features AL4376

Height	1002 mm (39 1/2")
Width	43mm (1 3/4")
Depth	85mm (3 1/4")
Weight	1,5Kg (3,30Lbs)

Mechanical features AL4375

Height	502mm (19 3/4")
Width	43mm (1 3/4")
Depth	85mm (3 1/4")
Weight	1Kg (2,20Lbs)

Thermal features

Maximum ambient temperature	50°C (113°F)
Minimum ambient temperature	-40°C (-22°F)
Maximum surface temperature	<70°C (<158°F)

Electrical features AL4376

Voltage	48 VDC
Maximum power	18W
Thermal protection	Electronic

Electrical features AL4375

Voltage	48 VDC
Maximum power	9 W
Thermal protection	Electronic

Light output source AL4376

Type of light output source	40 Leds
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Light output source AL4375

Type of light output source	20 Leds
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Control AL4376

Protocol	USITT DMX-512
Control channels	6-120 DMX channels

Control AL4375

Protocol	USITT DMX-512
Control channels	3-60 DMX channels

Construction

Unit body	Polycarbonate UV-proof
Fixing bracket	aluminum
Treatment (fixing bracket)	Scratch resistant paint
Weather protection rate	IP66



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User's manual rel. 1.00