

# **RIGGDIM**

## **Portable Digital Dimmer**

### **User's manual**

Second edition

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**Dear Customer!**

Thank you for chose PLS Electronics product. If you have any technical question or you looking for other equipments, don't hesitate to take up the contact with our sales representative or with the manufacturer at the [www.pls.hu](http://www.pls.hu) web site.

This apparatus is a portable single or dual channel digital dimmer with DMX 512/1990 or local fader light level control. The light control is produced by a phase angle control technology.

**Safety first! Please read carefully and understand the user manual!**



**The wrapper of the unit is NOT baby toy!**

**Keep it away form babies!**



For technical questions and *original spare parts*  
please take up the contact with our sales representative or with the  
manufacturer at the [www.pls.hu](http://www.pls.hu) web site.



**ATTENTION!**

**DON'T USE WITHOUT PROTECTIVE GROUND!**



Not allowed to make a parallel connection between any outputs  
(phases or neutrals) to increase the output current capability of the  
unit! Otherwise the unit can be damaged!



**CAUTION!**

Do not cover any air inlets and fan outlets of the dimmer!



Take care to have proper airflow in and out to let cooling the unit.



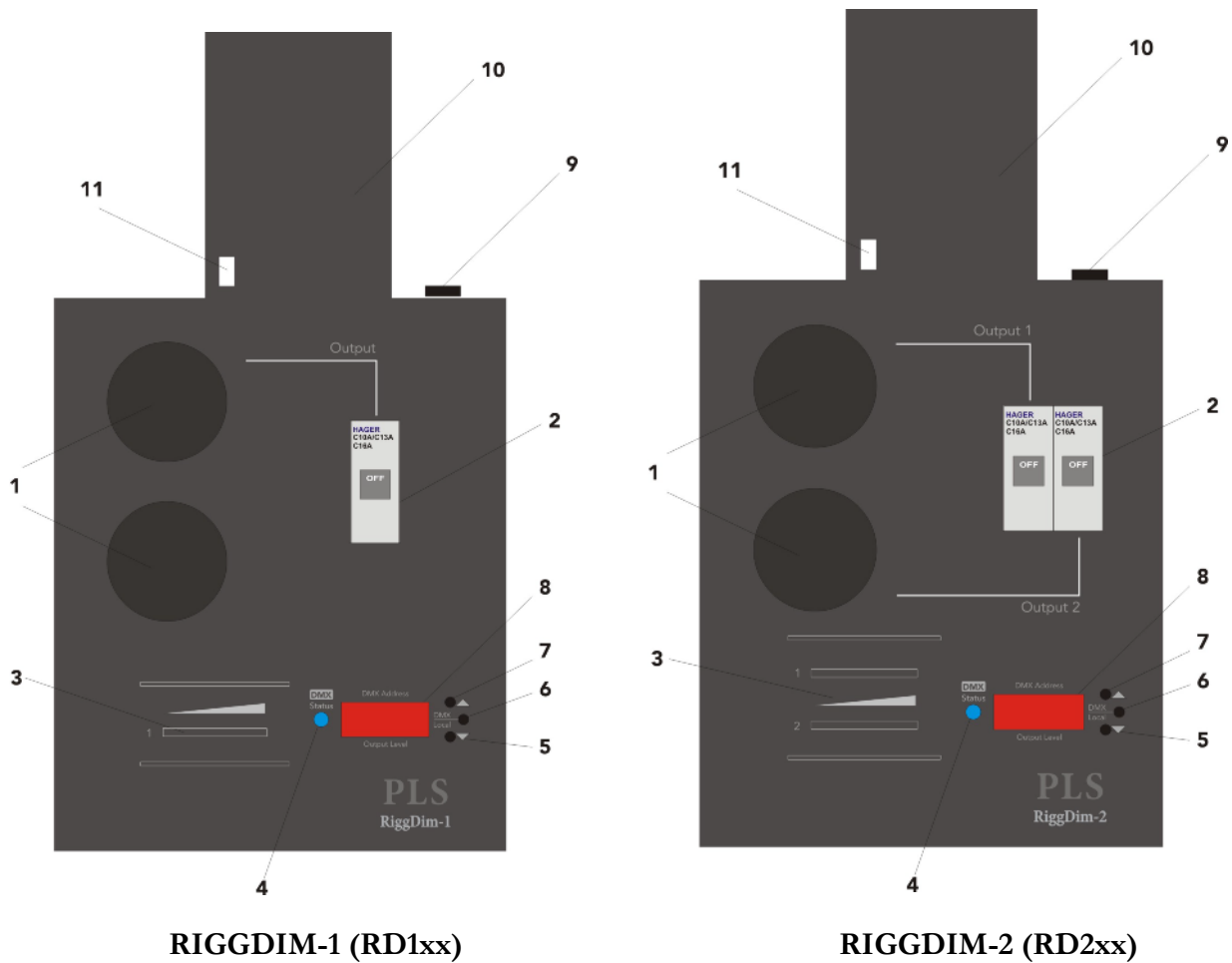
**CAUTION!**

Disconnect mains before open the dimmer for service!



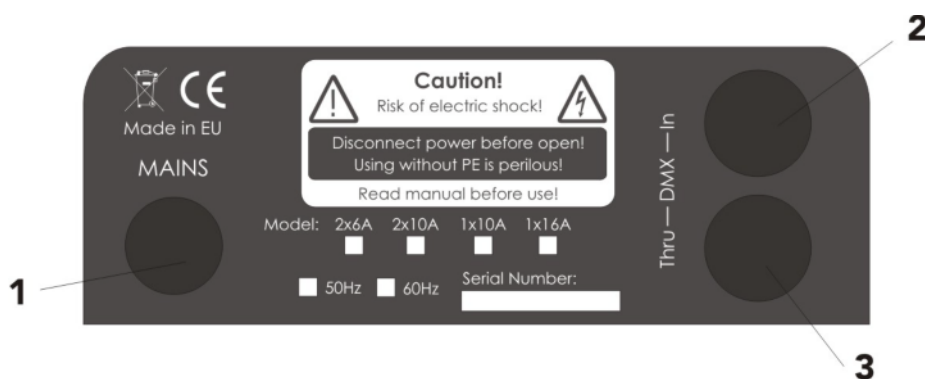
Service allowed only for technicians who had technical course by the sales  
representative or by the manufacturer!

## Front parts



1. Dimmer outputs via Schuko or CEE connectors
2. Circuit breaker(s)
3. Local control potmeter(s). The blue LEDs are indicating the output light level(s)
4. DMX control LED (If it is flashing, the DMX pocket is correct; when ON, the Local control is enabled (the unit doesn't accept DMX data)
- 5, 7. UP/DOWN Buttons to set the DMX start address
6. Local/DMX control select button. Press one time to toggle the existing mode
8. Digital display. Here you can see the start address of this apparatus on the DMX line if the unit is in DMX mode. At Local mode the control level displayed of the last changed potmeter.
9. Fuse for internal control electronic (T160mA HPC)
10. C hook for vertical truss mounting
11. Hole for safety wire

## Bottom parts



1. Power cord with Schuko male plug (except RD210 model)
2. DMX input via 5-pin male XLR connector (optically and power isolated from the internal electronic)
3. DMX throughput via 5-pin female XLR connector (this output is not isolated from the DMX input – simple loop output)

## Local control

Toggle the control modes by the middle button (6) marked with “DMX/Local”. If the DMX LED is ON, the unit is in Local control. Change the potmeter positions to set the requested output levels for both channels.

## Digital Controls

The DMX input signal must be connect to the DMX In (2) marked connector, which can be found on the bottom side of the dimmer. The pins of the XLR connectors are the follows: 1. GND (Shield), 2. Complement data (-), 3. True data (+), 4-5. Spare data lines. **Don't connect the shield (pin 1) to the protect ground!** If this unit is the last one on the DMX line, place a 120 Ohm resistor between pin 2 and pin 3. If you miss that, a reflection could be occurring on the data cable, and the unit will not work correctly.

The DMX start address can be select with two buttons (5,7) marked with two small Up/Down showing triangle) on the front panel. The upside button (8) is increase, the downside (6) is decrease the DMX start address of the dimmer. If you hold down one of the buttons, the address is increment/decrement automatically. After the last button press, the dimmer saves the selected address within 5 seconds. The saving is indicated with a three times flash of the display (no dimming while saving!). On the next power on, the saved DMX address will restore.

### Technical information

Power supply: ..... 230VVAC  $\pm 10\%$   
Power draw with open outputs:.....2W  
Output connectors:..... 16A Schuko (-S), CEE16A/3P (-C)  
Input connectors:.....5 pole XLR male  
Noise filters:.....HF filters at all ch. ( $t_r=75\mu S \pm 5\%$ )  
Output protection:.....C6A, or C10A circuit breakers (1P, 1P+N or 2P  
depends on the model)  
Input protection: .....TVS, opto and power isolation on DMX input  
**(the throughput is not isolated and refreshed!)**  
Operating temperature:.....10°C to 35°C (RH: 0-90%, non-condensing)  
Storage temperature:.....-10°C to 60°C  
Dimensions:.....170 x 260 x 60 + connectors (mm)  
Weight:.....3,5Kg



## Declaration of Conformity

We, PLS Electronics Limited declare under sole responsibility that the product:

**Product name:**..... RIGGDIM portable dimmer series  
**Product model** (*output variations*):..... -S (Schuko), -C (3 pole 16A CEE)  
**Serial Number:**..... n/a  
**Lot:** ..... n/a  
**Item number:**..... One

to which this declaration relates is in conformity with the following standards:

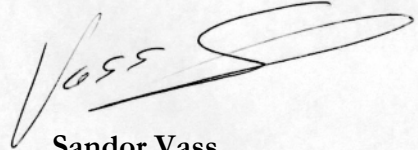
- **EN 55015-1** (Electromagnetic compatibility. Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (CISPR 15:2000+CISPR 15:2000/A1:2001+ CISPR 15:2000/A2:2003)
- **EN 61000-6-2** (Immunity for industrial environments)
- **EN 60439-1** (Low-voltage switchgear and controlgear assemblies. Part 1: Type-tested and partially type-tested assemblies)

Therefore the upper indicated product **qualifies** the EU 2014/35/EU LV Directive and the 2014/30/EU EMC directive, considering 768/2008/EEC directive for CE.

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**Signature of authorised person:**



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