

## USER MANUAL

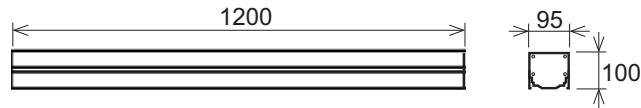
### LL PRO LED PIXEL Z-POWER 06 ONECHIP RGB

LL37 410

COMPLIMENTS ON YOUR PURCHASE!



All dimensions are in millimeters



#### Following items are included:

- LL PRO LED PIXEL Z-POWER 06 ONECHIP RGB 1 pc.
- PowerCon type "A" + "B" 1 pc.
- User manual 1 pc.

#### Additional items needed:

- Data cables with XLR 5PIN Female/Male 1 pc.
- Controller compatible with DMX 1 pc.

#### Content:

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#### ENVIRONMENT



Do not throw away the appliance with the normal household waste at the end of its life, but hand it in at an official collection point for recycling. By doing this, you help to preserve the environment.

## 01 SAFETY INFORMATION



### WARNING!!!

Carefully read before installing, powering or servicing.  
Nothing to do if anything misunderstand!  
Only for professional use!

### 01.1 Risk of eyes damage



- Do not look directly into LED lamps.
- Do not look into light beam from a distance of less than 40 cm (16 inches)!

### 01.2 Protection from electric shock



- Shut down power before installation or maintenance.
- Luminaries and recommended power supply must be installed by a qualified professional in accordance with relevant local codes.  
Only acceptable source of AC power and frequency that complies with local building and electrical codes to use.
- Do not use or do not connect the products if the power cable, power plug or fixtures are any way damaged, wet, or if they are overheating.
- Do not modify, alter, or attempt to service the LeaderLight appliance.  
Doing so will void the warranty.
- Before removing or installing any cover or part of appliance disconnect it from AC power.
- Appliance allways connect to earth (eltech).

### 01.3 Fire prevention



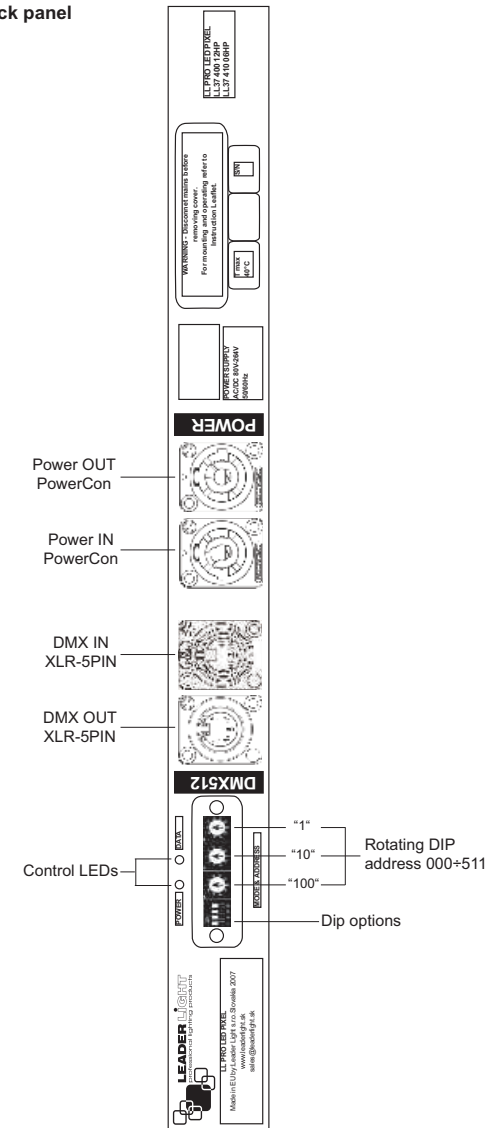
- Follow all safety consideration.
- Thermostatic switches or fuses never to bypass.
- Device never shield – minimum distance around ventilating slot must be 100mm (4 in.).
- LEDs never direct cover with filters or other materials.
- Allowing max. ambient temperature is 40°C (104°F).

## 02 PRODUCT SPECIFICATION

### 02.1 Technical Specification

<b>Lamp type:</b>	24xRGB 3x1W P5 (Red, Green and Blue)
<b>Lifetime:</b>	Long 50 000 hrs 60% degradation
<b>Optic:</b>	35mm standard 25° optional 10°, 40° - on request
<b>Control data Input:</b>	DMX 512 in/out with XLR 5PIN
<b>Input power:</b>	max. 125W
<b>Power Connection:</b>	100-260V AC in/out PowerCon
<b>Net weight:</b>	6kg
<b>Dimensions LxWxH:</b>	1200mm x 95mm x 100mm without bracket
<b>IP:</b>	IP20
<b>Ambient temp. (Ta):</b>	Maximum 40°C
<b>Materials and finish:</b>	Housing: powder-painted anodized aluminium in black (other colours on request)
<b>Installation:</b>	Any position for ceiling, wall and surface mounting

## 02.2 Back panel



### Control LEDs Indication

POWER ● DATA ●

LED	INDICATION	STATUS
POWER (Red)	blinking – 2Hz	OK - inside fixture is everything correct
DATA (Green)	light off	NO DMX512 signal
DATA (Green)	blinking – 4Hz	OK- income correct DMX512 signal
DATA (Green)	fast blinking	NON correct digital signal
POWER (Red)	alternate blinking	Autotest function
DATA (Green)		

### 03 INSTALLATION

#### 03.1 Unpacking

- Unpack carefully.
  - This is electronic equipment and should be handled carefully.
  - Damaged delivered package or if are any mechanical parts broken – it must be claim immediately by the transport company.
- Photo pictures as evidence are valuable for future claim.

#### 03.2 Physical installation

- Loading capacity of bearing area has to be at least 10 times the weight of all device clusters (luminaries, clamps, cables, ...).
- Heigrbreadth from combustible materials is 0,5m.

#### 03.3 Connecting to AC power



- **To tackle all Safety Information- 01!**
  - For protection from electric shock, the device must be grounded (earthed)!
  - It is not necessary to open the fixture before power supply.
  - Power supply is solved simple with Neutrik PowerCon connectors.
  - The fixture is equipped with auto-switching power supply that automatically adjusts to any 50-60 Hz AC power source from 100-260 Volts.
- Cord plug connections:

Symbol	Pin	Wire Colour	Screw (US)
L	live	brown/black	black
N	neutral	light blue	white
	ground (earth)	yellow/green	green

#### 03.4 Control data connecting

- Control data cable length is specified by Norm IEC929 Annex E4.
- It is not necessary to open the fixture before connecting of DMX512 control signal. Interconnections are realized by Neutrik XLR 5 PIN IN/OUT connectors.
- Pin connections:
  - Pin 1 – ground
  - Pin 2 – signal negative
  - Pin 3 – signal positive

#### 03.5 DMX channels

##### DMX channels and DIP Switch:

##### Mode 1 (3+2 channels): DIP2=Off and DIP3=Off

- channel 1 = 0-100% Red 1-6 together
- channel 2 = 0-100% Green 1-6 together
- channel 3 = 0-100% Blue 1-6 together
- channel 4 = **Master** 0-100% control only if **DIP1=On and DIP4=Off**
- channel 5 = **Strobo** 0-15 fl/sec control only if **DIP1=On and DIP4=Off**

(If is DIP1=Off and DIP4=Off is control fixtures only by 3 channels mode)

##### Mode 2 (6+2 channels): DIP2=Off and DIP3=On

- channel 1 = 0-100% Red 1-3 together
- channel 2 = 0-100% Green 1-3 together
- channel 3 = 0-100% Blue 1-3 together
- channel 4 = 0-100% Red 4-6 together
- channel 5 = 0-100% Green 4-6 together
- channel 6 = 0-100% Blue 4-6 together
- channel 7 = **Master** 0-100% control only if **DIP1=On and DIP4=Off**
- channel 8 = **Strobo** 0-15 fl/sec control only if **DIP1=On and DIP4=Off**

(If is DIP1=Off and DIP4=Off is control fixtures only by 6 channels mode)

##### Mode 3 (6+2 channels): DIP2=On and DIP3=Off

- channel 1 = 0-100% Red 1, Red 3, Red 5
- channel 2 = 0-100% Green 1, Green 3, Green 5
- channel 3 = 0-100% Blue 1, Blue 3, Blue 5
- channel 4 = 0-100% Red 2, Red 4, Red 6
- channel 5 = 0-100% Green 2, Green 4, Green 6
- channel 6 = 0-100% Blue 2, Blue 4, Blue 6
- channel 7 = **Master** 0-100% control only if **DIP1=On and DIP4=Off**
- channel 8 = **Strobo** 0-15 fl/sec control only if **DIP1=On and DIP4=Off**

(If is DIP1=Off and DIP4=Off is control fixtures only by 6 channels mode)

##### Mode 4 (18+2 channels): DIP2=On and DIP3=On

- channel 1 = Red 1
- channel 2 = Green 1
- channel 3 = Blue 1
- channel 4 = Red 2
- channel 5 = Green 2
- channel 6 = Blue 2
- channel 7 = Red 3
- channel 8 = Green 3
- channel 9 = Blue 3
- channel 10 = Red 4
- channel 11 = Green 4
- channel 12 = Blue 4
- channel 13 = Red 5
- channel 14 = Green 5
- channel 15 = Blue 5
- channel 16 = Red 6
- channel 17 = Green 6
- channel 18 = Blue 6
- channel 19 = **Master** 0-100% control only if **DIP1=On and DIP4=Off**
- channel 20 = **Strobo** 0-15 fl/sec control only if **DIP1=On and DIP4=Off**

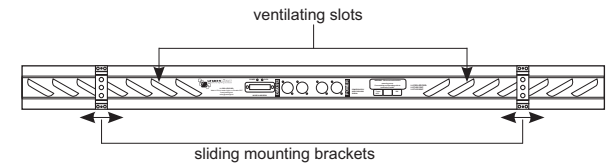
(If is DIP1=Off and DIP4=Off is control fixtures only by 18 channels mode)

##### Extension and control functions:

- Dip4=Off, Dip1=Off => DipBCD: use rotating switch for DMX start address (RS1-100, RS2-010, RS3-001) from 001 to 511
- Dip4=Off, Dip1=On: address+2ch (Master+Strobo)
- Dip4=On, Dip1=Off: switch on AutoRun-table functions: "100"=Prg.0-9, "10"=StepTime, "1"=FadeTime
- Dip4=On, Dip1=On: switch all channels on **50% - test function**
- Dip2=Off, Dip3=Off: Mode 1 (3+2ch)
- Dip2=Off, Dip3=On: Mode 2 (6+2ch) 1-3modul, 4-6modul
- Dip2=On, Dip3=Off: Mode 3 (6+2ch) 1+3+5modul, 2+4+6modul
- Dip2=On, Dip3=On: Mode 4 (18+2ch)

##### ROTATING DIP switch:

Start DMX address is setup by rotating switch.  
Rotating switch (RSx) use for DMX start address (RS1-100, RS2-010, RS3-001) from 001 to 511.



### 04 MAINTENANCE



- To tackle all Safety Information- 01!
- Damage caused by inadequate cleaning or maintenance is not covered by warranty.
- Regular cleaning is demand (dust, dirt, ...)

##### Maintenance policy:

- Unplug mains before maintenance and at least 10 minutes cool off.
- Cleanup dust from scuttle, diffuser and lens.
- Use vacuum or dampy duster (warm water).
- Before reinstalling to check failure-free state – no wet parts!