

USER MANUAL

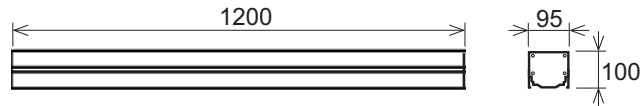
LL PRO LED PIXEL Z-POWER 12 ONECHIP RGB

LL37 400

COMPLIMENTS ON YOUR PURCHASE!



All dimensions are in millimeters



Following items are included:

- LL PRO LED PIXEL Z-POWER 12 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:

01 SAFETY INFORMATION

- 01.1 Risk of eyes damage
- 01.2 Protection from electric shock
- 01.3 Fire prevention

02 PRODUCT SPECIFICATION

- 02.1 Technical Specification
- 02.2 Dimensions
- 02.3 Back panel

03 INSTALLATION

- 03.1 Unpacking
- 03.2 Physical installation
- 03.3 Connecting to AC power
- 03.4 Control data connecting
- 03.5 DMX channels

04 MAINTENANCE

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 always connect to earth (eltech.).

01.3 Fire prevention



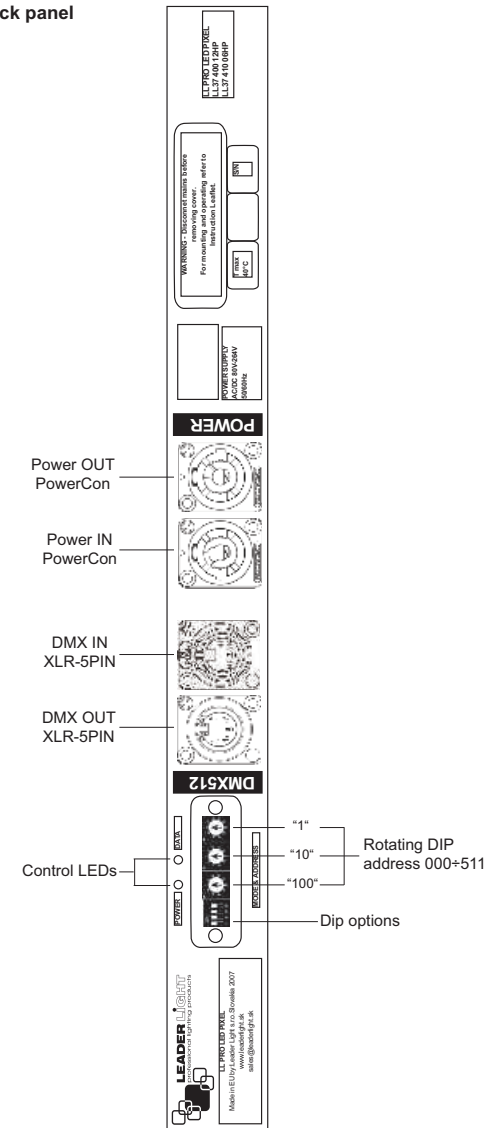
- Follow all safety consideration.
- Thermostatic switches or fuses never to bypass.
- Device never shield – minimum distance around ventilating slot must be 100mm (4 in.).
- LEDs never direct cover with filters or other materials.
- Allowing max. ambient temperature is 40°C (104°F).

02 PRODUCT SPECIFICATION

02.1 Technical Specification

Lamp type:	48xRGB 3x1W P5 (Red, Green and Blue)
Lifetime:	Long 50 000 hrs 60% degradation
Optic:	35mm standard 25° optional 10°, 40° - on request
Control data Input:	DMX 512 in/out with XLR 5PIN
Input power:	max. 250W
Power Connection:	100-260V AC in/out PowerCon
Net weight:	7kg
Dimensions LxWxH:	1200mm x 95mm x 100mm without bracket
IP:	IP20
Ambient temp. (Ta):	Maximum 40°C
Materials and finish:	Housing: powder-painted anodized aluminium in black (other colours on request)
Installation:	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, ...).
- Height/breadth 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 1-12 together
- channel 2 = 0-100% Green 1-12 together
- channel 3 = 0-100% Blue 1-12 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 1-6 together
- channel 2 = 0-100% Green 1-6 together
- channel 3 = 0-100% Blue 1-6 together
- channel 4 = 0-100% Red 7-12 together
- channel 5 = 0-100% Green 7-12 together
- channel 6 = 0-100% Blue 7-12 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, Red 7, Red 9, Red 11
- channel 2 = 0-100% Green 1, Green 3, Green 5, Green 7, Green 9, Green 11
- channel 3 = 0-100% Blue 1, Blue 3, Blue 5, Blue 7, Blue 9, Blue 11
- channel 4 = 0-100% Red 2, Red 4, Red 6, Red 8, Red 10, Red 12
- channel 5 = 0-100% Green 2, Green 4, Green 6, Green 8, Green 10, Green 12
- channel 6 = 0-100% Blue 2, Blue 4, Blue 6, Blue 8, Blue 10, Blue 12
- 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 (36+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 = Red 7
- channel 20 = Green 7
- channel 21 = Blue 7
- channel 22 = Red 8
- channel 23 = Green 8
- channel 24 = Blue 8
- channel 25 = Red 9
- channel 26 = Green 9
- channel 27 = Blue 9
- channel 28 = Red 10
- channel 29 = Green 10
- channel 30 = Blue 10
- channel 31 = Red 11
- channel 32 = Green 11
- channel 33 = Blue 11
- channel 34 = Red 12
- channel 35 = Green 12
- channel 36 = Blue 12

channel 37 = **Master** 0-100% control only if **DIP1=On** and **DIP4=Off**

channel 38 = **Strobo** 0-15 fl/sec control only if **DIP1=On** and **DIP4=Off**

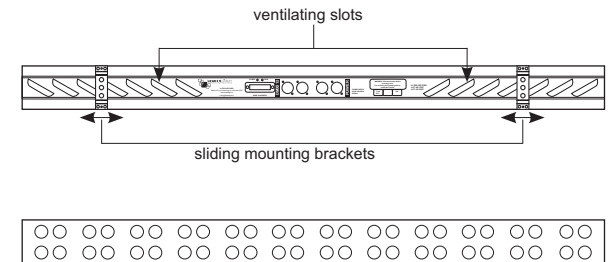
(If is **DIP1=Off** and **DIP4=Off** is control fixtures only by 36 channels mode)

Extention 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) 1-6modul, 7-12modul
- Dip2=On, Dip3=Off: Mode 3 (6+2ch) 1+3+5+7+9+11modul, 2+4+6+8+10+12modul
- Dip2=On, Dip3=On: Mode 4 (36+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!