LL PRO WASH IP65 LLB 070|LL35 090|LL35 100 LL L35 120

COMPLIMENTS ON YOUR PURCHASE!

## All dimensions are in millimeters

$\qquad$
630

Following items are included:
-LL PRO WASH IP65 with 1 m power cable, $2 \times 1 \mathrm{~m}$ control cable with XLR5pin 1 - User manual

Additional items needed:
Controller compatible with DMX
Surface mounting:
Screws and washers M12 or M8

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## ENVIRONMENT

区
Do not throw away the appliance with the normal household waste at the end of its life, the environment.
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## 01 SAFETY INFORMATION <br> WARNING! <br> Carefully read before installing, powering or servicing <br> Nothing to do if anything misunderstand! Installation can be done only <br> by a qualified professional in accordance with relevant local codes.

### 01.1 Risk of eyes damage

Do not look directly into LED lamps.
Do not look into light beam from

01.2 Protection from electric shock

Shut down power before installation or maintenance Luminaries and recommended AC 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 codas to use and frequency that complies with local building and electrical codes to use.
Do not use or do not connect the educt it 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 Do not mock
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.


Device never shield. Around the axis of the fitting $\left(180^{\circ}\right)$ must be maintained space for coo-
ling. Minimum distance from the exurounding objects must be 100 mm (4 in.) (figure 1.1). LEDS never direct cover with filters or other materials.
Luminaries never use without mounting brackets. The housing never install directly to the
surface.


## 02 PRODUCT SPECIFICATION

02.1 Technical Specification

Lamp type: $22 / 66 \times$ RGBAW PA * $122 / 66 \times$ AW PU *
Lifetime: Long 50000 hrs $70 \%$ degradation

| Optic: | Standard: $25^{\circ}$, on request: $10^{\circ}, 40^{\circ}$, EL and $A$ |
| ---: | :--- |

Control data Input: DMX $512 \mathrm{In} /$ Out with 1 m cable with XLR5pin
Input power: max. $34 \mathrm{~W} / 102 \mathrm{~W}$
Power connection: $\quad 100-260 \mathrm{~V}$ AC $50-60 \mathrm{~Hz} \ln 1 \mathrm{~m}$ cable
et weight: $3 \mathrm{~kg} / 5,5 \mathrm{~kg}$
IP: IP65
Ambient temp. (Ta): $:$ IP bx. $+40^{\circ} \mathrm{C}$
Cooling: Conventional
Materials and finish: $\begin{gathered}\text { Housing: powder-painted anodized aluminium in black } \\ \text { (other colours on request) }\end{gathered}$
Installation: Surface mounting

Edition: A - 2010
02.2 Back panel


## 03 INSTALLATION

03.1 Unpacking

Unpack carefully
This is electronic equipment and should be handled carefully.
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, ...) (figure 2.1, 2.2)
Hairbreadth from combustible materials is $0,5 \mathrm{~m}$.
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 1 m cable.
The fixture is equipped with auto-switchinge.
any $50-60 \mathrm{~Hz}$ AC power supply that automatically adjusts to
Cry $50-60 \mathrm{~Hz}$ AC power

| Symbol |  | Pin | Wire Colour |
| :---: | :--- | :--- | :--- |
| Screw (US) |  |  |  |
| L | live | brown | yellow or brass |
| N | neutral | blue | silver |
|  | ground (earth) | yellowgreen | 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 1 m cables $\operatorname{In} / \mathrm{Out}$ with XL LR5pin
Pin connections:
Pin 1-ground
Pin $2-$ signal negative
Pin $3-$ signal positive
If you have any question please, contact support@leaderlight.sk
03.5 DMX channels - subject to change (The latest version of DMX channels appendix are on the websites - www. leaderight.eu)

| Ch. | WASH 600 RGBAW | C. | WASH 600 AW |
| :---: | :---: | :---: | :---: |
| Mode1: Dip2=Off |  |  |  |
| 1 | Red 1,2,3 | 1 | Amber 1,2,3 |
| 2 | Green 1,2,3 | 2 | White $1,2,3$ |
| 3 | Blue 1,2,3 | 3 | Master (Dip1=On, Dip4=Off) |
| 4 | Amber 1,2,3 | 4 | Strobo (Dip1=On, Dip4=Off) |
| 5 | White 1,2,3 | 5 |  |
| 6 | Master (Dip1=On, Dip4=Off) | 6 |  |
| 7 | Strobo (Dip1=On, Dip4=Off) | 7 |  |
| Mode4: Dip2=On |  |  |  |
| 1 | Red 1 | 1 | Amber 1 |
| 2 | Green 1 | 2 | White 1 |
| 3 | Blue 1 | 3 | Amber 2 |
| 4 | Amber 1 | 4 | White 2 |
| 5 | White 1 | 5 | Amber 3 |
| 6 | Red 2 | 6 | White 3 |
| 7 | Green 2 | 7 | Master (Dip1=On, Dip4=Off) |
| 8 | Blue 2 | 8 | Strobo (Dip1=On, Dip4=Off) |
| 9 | Amber 2 | 9 |  |
| 10 | White 2 | 10 |  |
| 11 | Red 3 | 11 |  |
| 12 | Green 3 | 12 |  |
| 13 | Blue 3 | 13 |  |
| 14 | Amber 3 | 14 |  |
| 15 | White 3 | 15 |  |
| 16 | Master (Dip1=On, Dip4=Off) | 16 |  |
| 17 | Strobo (Dip1=On, Dip4=Off) | 17 |  |
| 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 +2 channel ( Master+Strobo) |
|  |  |  |  |
|  |  |  |  |
|  | Dip2=Off: Mode 1 ( $5+2 \mathrm{ch}$ ) |  | Dip2=Off: Mode 1 ( $2+2 \mathrm{ch}$ ) |
|  | Dip2=On: Mode 4 ( $15+2 \mathrm{ch}$ ) |  | Dip2=On: Mode 4 ( $6+2 \mathrm{ch}$ ) |
| Dip3=Off: |  |  | standard curve |
| Dip3=On: ultraSoft curve |  |  |  |

## 05 MAINTENANCE

To tackle all Safety Information- 01 !
Damage caused by inadequate clean
Damage caused by inadequate cleaning or maintenance is not coveredby warranty
Regular cleaning is demand (dust, ditt,

[^0]| Ch. | WASH 200 RGBAW |  |
| :---: | :---: | :---: |
| Mode1: Dip1=Off |  |  |
| 1 | Red 1 |  |
| 2 | Green 1 |  |
| 3 | Blue 1 |  |
| 4 | Amber 1 |  |
| 5 | White 1 |  |
| Mode2: Dip1=On |  |  |
| 1 | Red 1 |  |
| 2 | Green 1 |  |
| 3 | Blue 1 |  |
| 4 | Amber 1 |  |
| 5 | White 1 |  |
| 6 | Master |  |
| 7 | Strobo 1-19Hz |  |
| Functions DipBCD (rotating switch RS1 - „100", RS2 - „10", RS3 - „1") |  |  |
| DipBCD $=000$ |  | = DMX address 001 |
| DipBCD $=001$ - 512 |  | = DMX address 001-512 |
| DipBCD $=9 \mathrm{xx}$ |  | = AutoTest: Fade-Over RGBAW |
| DipBCD $=8 x x$ |  | = AutoTest: all channels on 50\% |
| DipBCD $=7 \times x$ |  | = AutoTest: all channels on 100\% |
| DipBCD $=6 \times x$ |  | = Auto Test: White on 100\% |
| Functions Dip (switch Dip1, Dip2, Dip3, Dip4) |  |  |
| Dip1 $=$ On |  | $=$ add +2 channels (Master + Strobo) |
| Dip4 $=$ Off |  | = activation Standard curve |
| Dip4 $=$ On |  | = activation UliraSoft curve |
| Dip2 $=$ Off, Dip3 $=$ Off |  | = future |
| Dip2 $=$ Off, Dip3 $=$ On |  | = future |
| Dip2 $=$ On, Dip3 $=$ Off |  | = future |
| Dip2 $=$ On, Dip3 $=$ On |  | = future |

## 04 PERNAMENT USE LIMITATIONS FOR HEATING DISSIPATION

Pernament use limitations for heating dissipation of LL PRO WASH RGBAW body
temperature must be less then $55^{\circ} \mathrm{C}$
$40^{\circ} \mathrm{C}$ ambient temperature $-20 \%$ of total power
$20^{\circ} \mathrm{C}$ ambient temperature $-10 \%$ of total power
Black version $-30 \%$
Silver or White version - $50 \%$
Example: Then final pernament value for BLACK colour and $40^{\circ} \mathrm{C}$ ambient temperature $=-30 \%-20 \%=56 \%=\max 143 \geq(R+G+B+W+A) / 5$
It's mean average of power go inside the fixture at DMX signal

Example:
black LL PRO WASH: $180 \geq(R+G+B+W+A) / 5$
Silver or White LL PRO WASH: $128 \geq(R+G+B+W+A) / 5$
Value for $R$ or $G$ or B or $W$ or $A$ is $100 \%=256=8$ bit levels *** RED $50 \%=128$ value,
RED $75 \%=192$ value
-
get maximum for we don't drop down each colour power with temperature control to get maximum for each colour un!


## Mechanical mounting of LL PRO WASH IP65 and Adjustable bracket

The instalation of LL PRO WASH IP65 and Adjustable bracket is easy. It is not necessary
to open the fixture before the mechanical mounting.

2.1 Fit the adjustable bracket on the fiting and fit with srews.

2.2 The bracket fix to the solid surface with srews (minimal 4pcs).

## Order code

Product name
LL 35070
LL35 090
L355 1000
LL35 100 LL PRO WASH RGBAW 200 FIX $25^{\circ}$ ** IP65

LL35 120 LLPRO WASH RGBAW 600 FIX $25^{\circ}$ ** IP65

Accessories:
*Optional $10^{\circ}$ LL BARNDOOR PRO WASH 600
*Optional $10^{\circ}, 40^{\circ}$, EL (Eliptical $15^{\circ} \times 90^{\circ}$ ), AS (Asymetrical) on request.
If you have any question please, contact support@leaderlight.sk


[^0]:    Maintenance policy:
    Unplug mains before maintenance and at least 10 minutes cool off
    Appliance do oot illegal open or demount
    Clean-up dust only from outer sufface ffo
    Clean-up dust only from outer surface (for ex. scuttle, diffuser and lenses).
    Use vacuum or dumpy duster (warm water)
    Before reinstalling to check failure-free state - no wet parts!

