

# Lightdrop

(AL3-Series)

## User Manual



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This instruction manual is part of the device and persons operating the device must have access to it at any time. Safety precautions mentioned in the instruction manual have to be observed. If the device is being sold, this instruction manual has to be included.

### **Translations**

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If the device is being sold, this instruction manual has to be translated into the national language of the destination country.

If discrepancies occur in the translated text, the original instruction manual has to be used to solve them for the manufacturer has to be contacted.

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# 1 Table of Contents

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<b>1 Table of Contents</b> .....	<b>3</b>
<b>2 Safety</b> .....	<b>5</b>
<b>3 Specifications</b> .....	<b>7</b>
3.1 Technical Data.....	8
<b>4 Quick Start</b> .....	<b>9</b>
4.1 Overview.....	9
4.2 Advantages.....	10
4.3 Button and Configuration.....	10
<b>5 Battery Runtime</b> .....	<b>11</b>
<b>6 Troubleshooting</b> .....	<b>13</b>
<b>7 Disposal</b> .....	<b>15</b>

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## 2 Safety

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Before you operate the unit, read this manual carefully. Make sure to keep the manual, in case you need to consult this manual again or you give the unit to another person.

Always make sure to include this manual if you hand out the unit to another person.

Keep in mind that this manual cannot address all possible dangers and environments. Please use your own caution when operating.



**Only qualified personnel may repair this product.  
Don't open the case.**



**Do not operate the unite in areas where the high temperature condition or outdoors . It will cause abnormal function or damage the product.**



**The Li-ion is inbuild, please avoid bumping or plunging, it will cause FIRE or EXPLOSION.**

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### **3 Specifications**

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- a) **Wireless spot light, for Indoor and outdoor use**
- b) **Narrow light beam angle can be widened with diffuser lens**
- c) **Displays more than 16 million colors.**
- d) **Low power consumption**
- e) **Controllable by Remote Control**
- f) **DMX integration via ART1 wireless DMX Transmitter**
- g) **8-24 hours operation time without recharging the battery.**
- h) **Up to 300 meter operation distance of the remote control**
- i) **High brightness LEDs**
- j) **RGB LEDs combined with white LEDs for a better color mixing and color appearance**

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## 3.1 Technical Data

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### **Light Sources**

Light Sources	5mm bullet LEDs with 30 degree beam angle
Amount or LEDs	AL3-S: 16 (4xR, 4xG, 4xB, 4xW) AL3-M: 96 (24xR,24xG, 24xB, 24xW)
LED Power	AL3-S: 2W AL3-M: 10W

### **Power Supply**

Power supply unit	Shipping with the Lightdrop
Input power	AC 100-240V, 50/60Hz, 0.3A
Output power	DC 5V, 0.5A
Rechargeable Battery	AL3-S: 3.7V, 0.85AH AL3-M:
Battery operational time	8 – 24h (depending on selected colors, brightness, programs)

### **Wireless Module**

Available versions	RF(radio frequency), IR(infra-red)
Range	IR: up to 10m RF: 50m up to 300m
RF Frequency	Europe: 868.000 MHz – 869.750 MHz US: 902MHz – 928 Mhz

### **Housing**

Material	POM housing and clear PMMA cover
Size	AL3-S: Ø 59mm x H 43.5mm (Ø 2.3" x H 1.7") AL3-M: Ø 90mm x H 55mm (Ø 3.5" x H 2.2")
Weight	AL3-S: 146g (0.32lb) AL3-M: 395g (0.87b)

### **Environmental Requirements**

Operational Temperature	-20 ~ 60 °C work temperature
Environment	Indoor and Outdoor (splash-proof)

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## 4 Quick Start

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This Lightdrop is designed for event illumination and decorative lighting. Due to its integrated battery and wireless module it offers an uncomplicated setup without the need to lay out cables for control and power supply.

The Lightdrop offers several mounting possibilities. Through its magnetic back it can be quickly attached at walls, ceilings or under tables and chairs. It can also be used to light up a range of optional decorative objects.

The Lightdrop can be used as standalone since basic illumination can be started with the touch button. Setting of colors and programs are set with the ARC2 or the IR Remote Control (depending on the version of the lightdrop). For a larger setup, the Lightdrop can be grouped and paired with other Lightdrops and other wireless Astera lamps.

### 4.1 Overview

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## 4.2 Advantages

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**Wireless design** --- The AL3 is easy for installation due to its integrated battery and RF receiver.

**Smart programing** --- The AL3 not only displays complex color-changing programs but also gives you the possibility to use your own customized colors for these programs when controled by an ARC2 Remote Control. The AL3 can be used as a standalone unit or grouped and paired with other Astera lamps and be controlled with an ARC2 RF Remote Control.

**Energy saving design** --- Low working voltage, low power consumption and additional white LEDs helps to save up to 80% energy so it can reach a maximum operation time of up to 24 hours.

## 4.3 Button and Configuration

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To power on the unit, hold the on/off button for >1 second.

To power off , hold the button again for >1 second, until the light turns off.

To enter blue configuration mode, continue to hold down the button after the unit powered off. After another 2 seconds, the unit will power up again and you will see a blue blinking light. For more information about blue config mode see manual of ARC2.

While in blue configuration mode, the user can switch the unit to one of the predefined colors or the rainbow program. To cycle through the colors, hit the button. If the desired color is displayed, hold the button until the LEDs stop blinking.

To do a Factory Reset, turn the unit on. Then hold down the button and keep the finger until: unit turns off → turns on blue blinking → turns off again  
When the unit turns off for the second time, a factory reset was done.

While powered up, the indicator LED will show the battery charge state:  
red – orange – green corresponding to the charge state

While charging, the LED will blink in green.

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## 5 Battery Runtime

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The work temperature is 0~60 Celsius degree.

When you switch on but it's not working and the red light is keep shining means you need recharge the battery.

The LED POWER modes description:

- When we use maxium runtime, we setting the LED power is 50% full power, the LED will run longer time, but the brightness is just 50% also
- When we use normal brightness, we setting the LED power is 70% full power , the LED will run time is our normal time.
- When we use high brightness, we setting the LED power is 100% full power, then the LED will more bright, but the run time will be shorter then the nornal brightness or maxium runtime mode.

Here are tested battery runtimes:

Color	MAX RUNTIME	NORMAL	HIGH BRIGHTNESS
COLR WHITE	9,6 h	8,0 h	5,6 h
CYAN	11,4 h	9,8 h	7,0 h
MAGENTA	12,9 h	11,1 h	8,1 h
YELLOW	13,5 h	11,7 h	8,5 h
ORANGE	17,3 h	15,1 h	11,1 h
GREEN	18,9 h	16,6 h	12,3 h
BLUE	21,2 h	18,4 h	13,8 h
RED	23,7 h	20,9 h	15,7 h

## 6 Troubleshooting

<b><i>Faulty condition</i></b>	<b><i>Cause</i></b>	<b><i>Troubleshooting</i></b>
LED no light when you switch on	Due to the vast number of settings, one can not always predict behavior of the units, if setup was already done earlier.	Set the brightness to other value.
Units behave incorrectly	Due to the vast number of settings, one can not always predict behavior of the units, if setup was already done earlier.	Do FACTORY RESET on units and/or remote control.
Couldn't turn on the system	Maybe the battery is run out.	Plug the AC input, and put the system charge 1 hour more, then can turn ON
The indicator not blinking when charging	DC plug or AC input not settled well or battery is already full	Discharge the battery a little or check wether the DC has been plugged or wether the AC input has any problem.
Units will go out of battery after only 6 hours of operation.	The units last only 8 hours with COLD WHITE, if the LED POWER is set to NORMAL. For HIGH BRIGHTNESS the run time is shorter than 8 hours.	Adjust LED POWER and/or see manual of the unit.

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## 7 Disposal

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**Follow local ordinances and/or regulations for disposal!**



***PACKAGING:***

**The unit is shipped in protective packaging.  
This packaging can be recycled!**



***UNIT:***

**Don't throw the unit into the garbage at the end of its  
lifetime.**

**Make sure to dispose is according to your local  
ordinances and/or regulations, to avoid polluting the  
environment!**



***BATTERIES:***

**Don't throw empty batteries into the garbage!**

**Bring them to a collecting point for used batteries!**