

## ULTRA-LIGHT 800W LED FIXTURE

# COSMO

**Ultra-light LED 800W Akurat COSMO fixture designed to illuminate shooting sets from the drone.**

Cosmo emits a powerful beam of light with a value exceeding 50 thousand lumen, at CCT 5600K.

LEDs used in Cosmo emit high quality light with CRI 97 colour rendering index, with TCSR9 at 70.

Each from eight of 100W COB LEDs are equipped with interchangeable optics, thanks to which it is possible to adjust the angle of the light beam to the size of the illuminated stage or the level of the drone flight. Each diode is equipped with a lightweight active cooling, controlled by a microcontroller. Adjusting the fan speed to the current diode temperature saves a significant amount of energy from the battery.

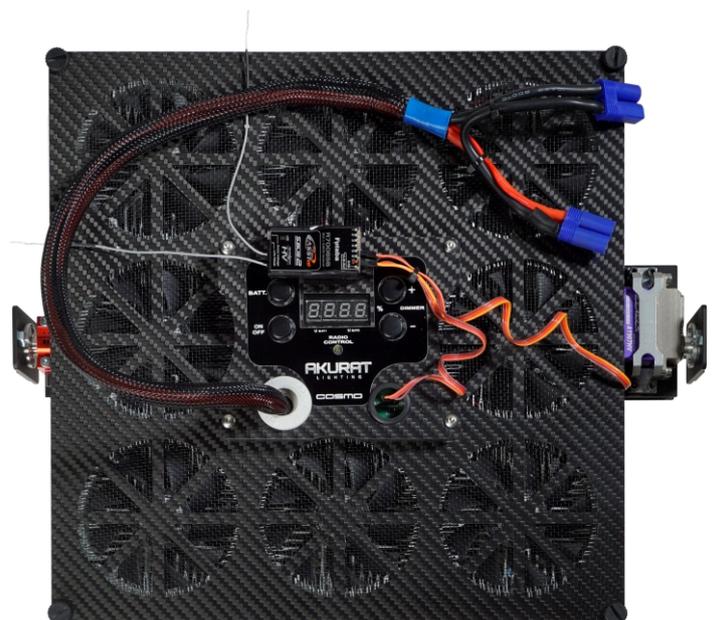
COSMO is designed to supply two LiPo batteries with a nominal voltage of 22.2 V (6s) and a capacity of 5000mAh. Fully charged batteries allow to illuminate the scene at full power for about 15 minutes. The lamp can also be supplied from a dedicated AC adapter, which lets you work stationary.

COSMO has been adapted for radio control by standard RC equipment used to control drones and in model making. The device's driver enables connection of any RC receiver with PWM output. By radio you can remotely adjust the dimming from 0 to 100 percent and the angle of inclination of the fixture relative to the plane of the flight in the range of +/- 80 degrees. The lamp's tilt is realized through a servo mechanism built into the COSMO fastening system. It is also possible to manually control the dimming and battery voltage reading.

The lamp base replaces the drone's landing gear and is equipped with a suitable hitch. There are also other types of mounts that enable setting the COSMO on a tripod or on a vehicle, for example.

Cosmo was made mostly of carbon combined with thin-walled aluminum connectors and bolts. Thanks to this, the weight of the lamp without the base is just 2400g.

With the power supply of two LiPo batteries (weight of both approx. 1.5kg), the starting weight of the kit with the landing gear slightly exceeds 5kg, which allows to lift the fixture with the power supply using drone. The FREFLY ALTA or DJI MATRICE 600PRO may be successfully used with Akurat Cosmo.



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LIGHTING

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## Technical specification

### Photometric parameters

max illuminance @ distance:  
(in lux using 27 optics 27°)

1m	72'000
2m	21'500
3m	10'000
5m	3'700

angle of light beam (50% max illuminance) 27°, 48°, 92° depending on used optics  
(+/-300K)  
CCT 5600 K TCS R9 MIN.70  
CRI Ra=97+

### Electrical parameters

nominal voltage	44,4 V	(2x22.2V)
max power	800 W	max power consumption
max supply voltage	52 V	absolute max

### Mechanical parameters

number of light sources (COB 100W LEDs)	8
dimensions:	
length	300 mm
width	300 mm
height without base	80 mm
type of mounting	special quick mount by Akurat
basic body material	carbon composite
weight	2,4 kg

### Environmental parameters

operating temperature	-20+40°C
storage temperature	-40+80°C

### Other

durability of light sources	50 000 h
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