

G6LVS Tethered Lighting UAV

odak® R&D
CENTER
smart city technologies



When considering a drone, the need to capture video/photos with a camera also arises. Based on these needs, the G6LVS, the most professional drone with advanced lighting functions, was developed. With the G6LVS model, you can capture 4KHD video at 30 frames per second, day or night. You can connect your smartphone to the UAV via an app downloaded to your smartphone and view the videos captured through its camera. Additionally, videos captured on the drone are recorded on a Micro SD card (512GB).

The G6LVS model also features RTK technology, which provides precise positioning capability. This technology enables positioning with centimeter-level accuracy. The G6LVS model can also meet operational requirements at altitudes of up to 4500 meters. It is designed to meet the needs of search and rescue teams with a 1.25kW power unit, 600W LED lighting module, and 4K HD camera.

The 600W lighting capability makes it easier to scan large areas. Under the drone, there are 3 sets of LED lighting modules, 2 of which can be directed to the desired area via remote control. With the G6LVS, you can safely operate at heights ranging from 5 meters to 50 meters. The maximum flight height is 50 meters due to the power cable.

You can fly continuously at any point where you have mains voltage. In emergencies or power outages, the battery inside the power unit will automatically ensure the safe landing of the UAV.

UNINTERRUPTED POWER, MAXIMUM MOBILITY

G6LVS Tethered UAV System



RTK-assisted precise positioning. Maintains a stable position with centimeter-level accuracy to ensure safe and steady lighting.



600W high-power LED lighting. It illuminates large areas powerfully and evenly, ensuring high visibility during nighttime operations.



It provides uninterrupted power transmission and high-altitude access up to 50 meters with a 50-meter cable.



Integration of a 4K wide-angle camera. It is possible to provide both lighting and high-resolution imaging simultaneously.



Non-stop flight (wired power supply). It provides continuous lighting by staying airborne for extended periods without battery limitations.



Quick setup and mobile use. Can be quickly deployed on-site using a portable power unit/generator.

A PERFORMANCE THAT TURNS NIGHT INTO DAY

At least 50,000

Lumen

5000m²

Illuminated Area

See every detail on the field with 600W of LED power.

FEBRUARY 6 TURKEY EARTHQUAKE

A Ray of Hope on the Field

It stood by search and rescue teams even under the most challenging conditions. The G6LVS supported operational success in critical moments.

For more information, please contact us.

G6LVS Tethered Lighting UAV

Aircraft Features

Product Name	:G6LVS
Centimeter Precise Positioning Feature	:RTK Technology
Flight Altitude (m)	:50m
Automatic Take-Off	:One Key Takeoff
Automatic Landing	:Yes
Emergency Landing Mode	:Yes, Automatic
Take-off Weight (kg)	:1410 gr
Size (mm)	:296 x 296 x 203
Wind - Rain Class	:Class7 (13,9~17,1m/sn) - Class10 (10L/sn)
Maximum Working Height (Altitude) Working Opportunity	:4500 m
Operating Temperature (°C)	:-20°C - +50°C

Lighting LED Module Specifications

Lighting Unit Power (W)	:600W +-%3
Lighting Source	:SMD Power LED
Color Temperature(CCT)	:6500K
Color Rendering Index	:>70
Lighting Area	:>5000m2

Camera Module Features

Lens	:170° Wide Angle
Video Resolution	:4K HD recording and 1080P 60/30FPS
Video Format / Video Recording	:MP4 - H265 / SD Card(512GB)
PTZ Controlled Rotation Range	:pan +/- 90°, tilt +/- 90°
Vibration Damper	:Yes
Gimbal	:Mechanical & EIS

Control Features

Control Communication Frequency (Ghz)	:2.400-2.483GHz
Control Communication Distance	:<500 m
Number of Channels	:128 groups of storage channels available

Power Unit Features

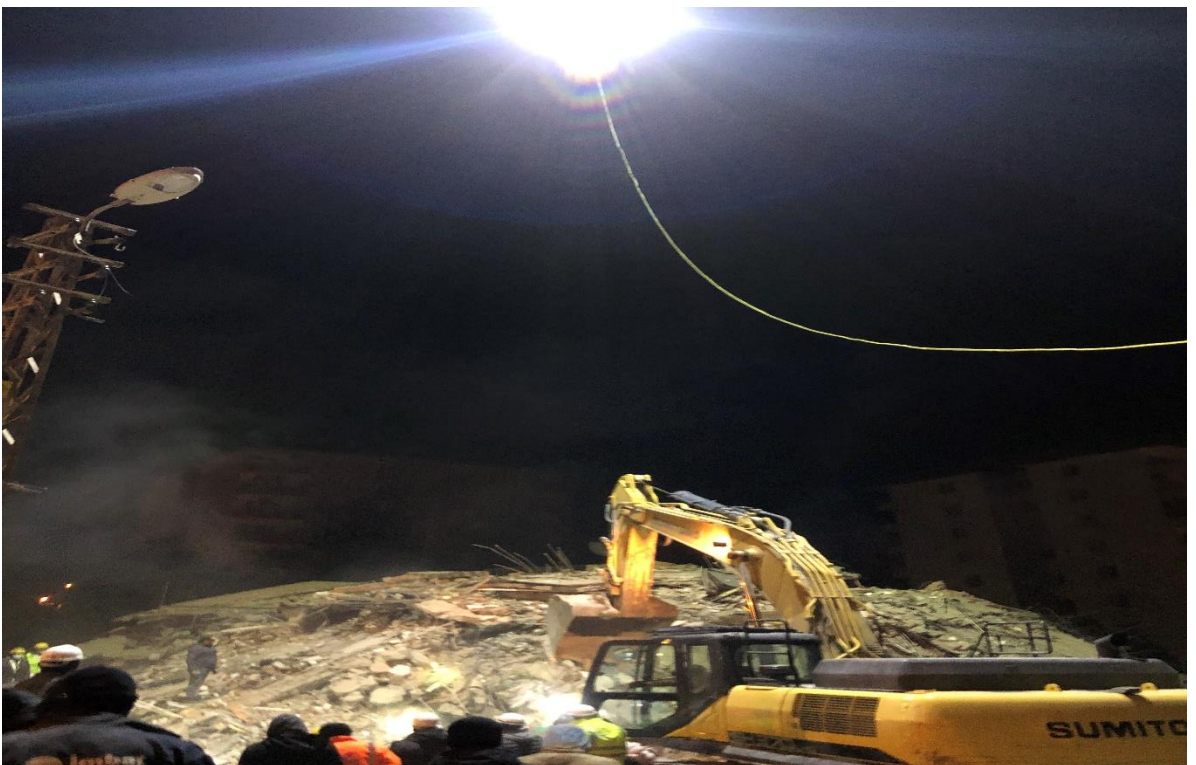
Input Voltage (AC)	:220-240V, AC 50/60 Hz
Max. Power (W)	:1250 W
Ready to Fly/ Workspace	:5dk / 5m ²
Reel Winding – Release	:Yes, Automatic – Manual
Cable Length	:50m
Weight	:17440 gr
Size	:760mm × 540mm × 400mm

Product Ordering Information

Product Code	Power	Input Voltage	CCT/CRI	Departure Weight	Flight Duration	Dimensions	Cable Length
G6LVS-04-RW-32-TET-50-CAM	600W	220 VAC 50-60 Hz	6500K / 70 CRI	1410 gr	24s	760mm × 540mm × 400mm	50 m

- Product average maximum power is 1.25 kW. You can use a generator or portable power station where there is no mains voltage.
- You can use the product for at least 1 hour with a 1250W Lithium Battery portable power station
- You can also use it without interruption with a gasoline generator with a continuous power of at least 1.25kW. We recommend a generator due to price/performance and long-term use.

Application Visuals



Lighting Test



In the illumination test performed by taking our wired illuminated aircraft to an altitude of 5m (AGL), 687lux was obtained on the ground, 230lux was obtained at an altitude of 10m (AGL) and 80lux was obtained in the illumination measurement made while flying at an altitude of 15m (AGL). The visuals of the results of the measurements made with the Luxmeter at 5m, 10m and 15m are as follows.

Lighting Test Results

