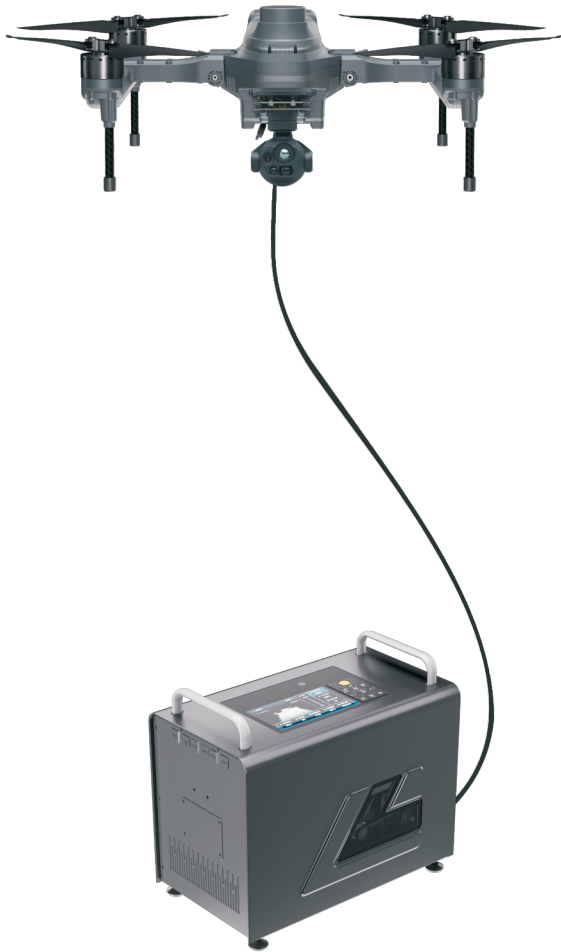


# Tethered Lighting System CZ100V

High Output & Triple-Sensor Gimbal & Anti-Interference



Easy Operation



Multi-Function Integration



RTK



Interference Resistance

## Product Advantages

### Simplified Operation

- 10-minute training
- Ready for takeoff in 100 seconds
- No professional pilot required

### Efficient Lighting

- 800W lighting power
- 120,000lm total luminous flux
- Max illumination area: 15,000m<sup>2</sup>

### HD Triple-Sensor Gimbal

- 2K ultra-clear imaging with 30× zoom
- 640 high-resolution thermal imaging
- 1km laser ranging

### Safe and Reliable

- Built-in parachute
- Resistant to wireless interference
- Wide input voltage range

The CZI CZ100V Tethered Lighting System is built for nighttime operations as an aerial lighting and monitoring platform. The airborne unit integrates high-power lighting, a triple-sensor gimbal, active cooling, a parachute, and other key modules, enabling rapid deployment without complex setup. With a maximum operating height of 50 m, the ground station provides uninterrupted tethered power, allowing the 800 W LED light to illuminate sites of over 10,000 m<sup>2</sup> throughout the night. Meanwhile, the integrated triple-sensor gimbal delivers 2K imaging, 30× zoom, 640 thermal imaging, and 1 km laser ranging for clear observation and precise target detection. The CZ100V combines lighting and situational awareness in one system, making it ideal for emergency rescue, night construction, firefighting, and disaster response.

## Technical Parameters

Model	CZ100V
Airborne Unit Weight	≤2.8kg
Airborne Unit Unfolded Dimensions	384*381*169mm
Airborne Unit Folded Dimensions	381*237*200mm
Symmetrical Motor Shaft Distance	480mm
Max Flight Altitude	4000m
Wind Resistance	Level 6
Hovering Accuracy (windless or light-wind conditions)	Horizontal: ±1.5m, Vertical: ±0.5 m (in GNSS mode)
Max Ascent Speed	1.5m/s
Max Descent Speed	1m/s
Propeller Size	12 inch
GNSS	GPS+BeiDou+Galileo+GLONASS+QZSS+HRNSS
GNSS Frequency Bands	L1、L5、B1I、B1C、B2I、B2B、B2A、E1、E5、G1
Software BeiDou-Only Mode	Supported
Hardware BeiDou-Only	Supported
Lighting Matrix Power	800W
Total Luminous Flux	120000lm
Lighting FOV	≥90°
Ground Station Weight	≤12.4kg
Ground Station Dimensions	≤385*337*224mm
Ground Station Input Voltage	176-264VAC
Ground Station Battery Capacity	2300mAh
Screen Size	5.5 inch
Screen Resolution	1920*1080
Screen Brightness	1000 nits
Ground Station Output Ports	HDMI, Ethernet
IP Rating	IP44
Operating Temperature	-20°C~+50°C
Storage Temperature	-40°C~70°C
<b>Camera</b>	
Dimensions	59×92.3×61.3mm
Weight	176g
Control Angle Range	Roll: -45° to +45°; Pitch: -90° to +10°; Yaw: -90° to +90°
Operating Voltage	7.2V-72V
Operating Temperature	-10°C~50°C
<b>Visible Camera</b>	
Resolution	5MP
Focal Length	3.5mm
Aperture	2.2
Video Transmission Resolution	720P@30fps
Photo/Video Resolution	2880×1620@30fps
Digital Zoom	30X
<b>Thermal Camera</b>	
Resolution	640×512
Detection Range	1.1KM
<b>Laser Rangefinder</b>	
Measurement Range	5~1000m
Ranging Accuracy	±1m