

Drone Mission Payload



Tethered Lighting System CZ100

Emergency Lighting, Interference free



CZ100 is an efficient and reliable medium-sized tethered emergency lighting system. It integrates advanced drone and lighting technologies, utilizing ground-based tethered power supply to provide strong support for night time emergency rescue missions.

The CZ100 features a lightweight design with a takeoff weight of just 2.6kg for the airborne unit. It is equipped with a high-power 800W LED light, capable of providing excellent aerial illumination for over 8,000 square meters throughout the night, with a maximum hovering height of 50 meters. The CZ100 also includes a built-in camera that transmits overhead video of the rescue site to the command center via a tethered cable, ensuring reliable transmission even in environments with radio interference.



Simple Operation



High Brightness



Built-in parachute



Unaffected by Interference

Product Advantages

Lightweight integrated design

- Total System Weight $\leq 15\text{kg}$
- Foldable airborne unit
- Backpack-style design

Simplified operation

- 10-minute training
- 100-second takeoff
- No professional pilot required

High-efficiency lighting

- Lighting power 800W
- Total luminous flux 112000lm
- Maximum illumination area 13000m²

Safe and reliable

- Built-in parachute
- Interference free
- Wide input voltage

Technical Parameters

Model	CZ100		
Airborne unit	$\leq 2.6\text{kg}$	Total luminous flux	112000lm
Airborne unit Deployment	384*381*169mm	Lighting FOV	120°
Airborne unit Folding	381*237*200mm	CMOS size	1/2.8 "
Symmetrical motor shaft distance	480mm	Video resolution	1920*1080
Maximum flight altitude	4000m	Ground station	$\leq 12\text{kg}$
Wind resistance level	Level 7	Ground station	337*224*385mm
Hovering Accuracy (calm or light wind)	horizontal: $\pm 1.5\text{m}$, vertical: 0.5m (In GNSS mode)	Ground station input voltage	90-264VAC
Maximum ascent speed	1.5m/s	Ground unit battery capacity	2300mAh
Maximum descent speed	1m/s	Screen size	5.5 inches
Propeller size	12 inches	Screen resolution	1920*1080
GNNS	GPS+BDS+Galileo	Screen brightness	1000 nits
GNSS frequency band	B1C、B2a、E1B/C、E5a、L1C/A、L5	Ground station output interface	HDMI、Network ports
Software BDS only	Support	IP Rating	IP44
Hardware BDS only	Support	Operating temperature	-20°C~+50°C
Matrix light power	800W	Storage temperature	-40°C~70°C