

Z-6C

High Zoom Rate Visible Light Pod



Synopsis

The Z-6C equips with a high-accuracy 3-axis pod and a 20.35M pixels 1500x hybrid zoom camera, which presents scene hundreds of meters away. Thanks to the starlight night vision function, the Z-6C can provide a clear image even in dim environments. The Z-6C can be mounted tool-lessly onto unmanned aerial vehicles with its quick-release port. It is able to be applied on multiple industries such as firefighting, forest police, public security, search & rescue and environment protection.

Characteristics

- Carries a 20.35M pixels 1500x hybrid zoom (20x optical zoom) camera, which provides a video resolution of 4K@25fps and an image resolution of 6016 x 3384.
- 3-axis mechanical stabilized structure which is able to spin continually around its yaw axis.
- With the Dual-IMU complementary algorithms with IMU temperature control and carrier AHRS fusion, the Z-6C provides a stabilization accuracy at $\pm 0.01^\circ$.
- Image supports shooting point coordinate EXIF save.
- Support remote screen projection and docking command platform.
- Can be mounted tool-lessly onto unmanned aerial vehicles with its quick-release port.

Specifications

Item		Parameters	
General	Dimensions	154 x 100 x 167mm	
	Weight	710g	
	Operating Voltage	20~53V	
	Power	10W (AVG) / 40W (Stall)	
	Protection Rating	IP43	
Gimbal	Angular Vibration Range	±0.01°	
	Maximum Controllable Speed	Pitch: ±200° /s, Yaw: ±200° /s	
	Controllable Range	Pitch: -120° ~ +30°, Yaw: ±360° constantly	
Zoom Camera	Image Sensor	1/2.3" CMOS; Effective Pixels: 20.35M	
	Lens	Focal Length: 4.1~81.6mm	
		HFOV: 70.2° ~ 4°	
		VFOV: 43.3° ~ 2.3°	
		DFOV: 78° ~ 4.6°	
	Optical Zoom Rate	20x	
	Equivalent Digital Zoom Rate	75x	
	Aperture	F2~F16	
	Electronic Shutter Speed	1/2~1/2000s	
	Object Detective Distance	EN62676-4:2015	Person ^[1] : 1930.7m Vehicle ^[2] : 3129.6m
		Johnson Criteria	Person: 22054.1m Vehicle: 67632.4m
	Object Identification Distance	EN62676-4:2015	Person: 386.1m Vehicle: 625.9m
		Johnson Criteria	Person: 5513.5m Vehicle: 16908.1m
Object Verified distance	EN62676-4:2015	Person: 193.1m Vehicle: 313.0m	
	Johnson Criteria	Person: 2756.8m Vehicle: 8454.1m	

[1] Person: 1.8 x 0.5m

[2] Vehicle: 4.2 x 1.8m

Item		Parameters
Image & Video	Output Video Resolution	1080P@25fps
	Store Video Resolution	4K@25fps
	Image Resolution	6016 x 3384
	Stream Encode Format	H.264, H.264H
	Stream Network Protocol	RTSP, UDP, GB/T28181
	Supported SD Card	Supports a SDXC card with a capacity of up to 128GB
Environment	Operating Temperature	-20°C ~ 60°C
	Storage Temperature	-20°C ~ 70°C
	Operating Humidity	≤85%RH (Non-condensing)