SYK-20L Laser Night Vision 4K

3-Axis Gimbal Camera

V1.0 2023.03

FOXTECH

Description

Disclaimer

Thank you for purchasing this product. you can log in to the website for the latest product information, technical support and user manual. It is recommended that you download and use the latest version of the user manual. This manual is subject to change without notice.

You can also get product usage information or technical support through official customer service. Due to different production batches, the appearance or function parameters are slightly different and will not affect the normal use of the product.

Please read this statement carefully before using. Once used, it is deemed to be an endorsement and acceptance of the entire contents of this statement. Please read the instruction manual carefully and strictly follow the instructions in this manual to use this product. Foxtech will not be liable for any result or loss caused by improper use, installation, assembly or modification of users.

Intellectual Property

Contents

Product Profile

Introduction

The SYK-20L camera is a versatile device that integrates various features to provide high-quality images with a resolution of 6016*3384.

It comprises a 20X optical camera, an 1800 m rangefinder, and a 500 m Laser night vision sensor that emits an invisible light beam to "light up" the environment, making it suitable for various missions such as search and rescue, crime prevention, and border patrol.

Additionally, the camera's 3-axis gimbal with ±0.01° stabilizing accuracy helps produce stable and accurate images.

The 1800 m rangefinder can measure the distance between the UAV and the target and provide the target's longitude and latitude information.

Specifications

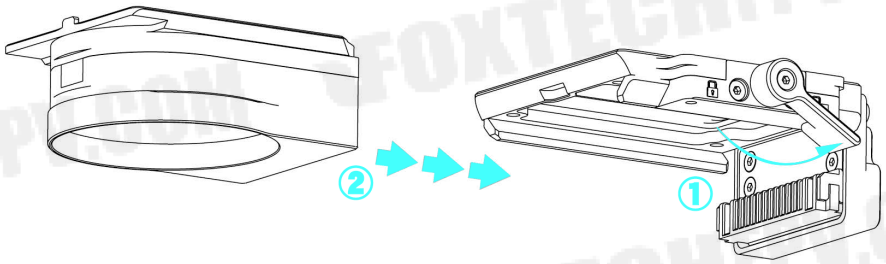
Optical Sensor	
Sensor	1/2.3″ CMOS
Total Pixels	20.35 MP
Video Resolution	4K@25 fps
Image Resolution	6016*3384
Optical Zoom	20X f:4.1~81.6 mm
Digital Zoom	75X
FOV	Horizontal: 70.2°~4° Vertical: 43.3°~2.3° Diagonal: 78°~4.6°
Detect Distance	Human: 1190.6 m;Car: 1564.8 m
Recognize Distance	Human: 238.1 m;Car: 313 m
Verify Distance	Human: 119.1 m;Car: 156.5 m

Rangefinder	
Band	905 nm
Distance	5~1800 m(Vertical reflector with 12m diameter, 20% reflection)
Measure Accuracy	±0.3 m(＜300 m)/±1 m(＞300 m)
Launch Angle	2.5 mrad
Measure Method	Pulse
Power	＜1 mW(Safe to eye)
Laser Night Vision	
Band	850±10 nm
Effective Distance	≤500 m
Laser Angle	8°+30°
Protect Level	3FDA, IEC-3B
Video	
Single Ethernet Output	Support
Video Switch	Support
Video Compression	H.264/H.264H
Storage	SD Card(128 G Max)
Internet Protocol	RTSP,UDP,GB/T28181
Gimbal	
Stability	±0.01°
Max Control Speed	Yaw: ±200°/s Pitch: ±200°/s
Control Range	Yaw: ±360°(Unlimited) Pitch: -120°~+60°
Working Temperature	-20℃~+60℃
Storage Temperature	-20℃~+60℃
Working Humidity	≤85%RH(Non-Condensing)
Protect Level	IP43
Weight	890 g(Camera With Gimbal)/85 g(Gimbal)
Power Consumption	18.4 W(Average)/36 W(Max)
Power	DC 21~53 V
Control Method	Ethernet/Serial Port/SBus
Video Resolution	4K@25fps(Storage to SD Card)/1080P@30fps(Output)

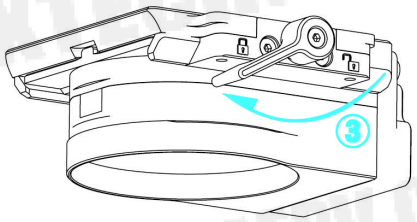
Quick-Mount Structure

Mount

Flip the lock hook to the unlock position and push the payload into position along the rail until there is a slight Clicking sound, which indicates that it is securely in place, then flip the lock hook to lock the payload.

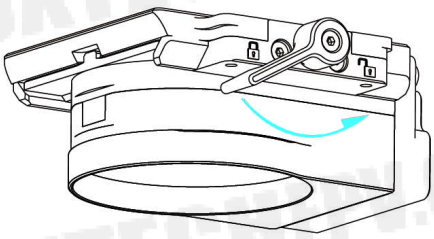


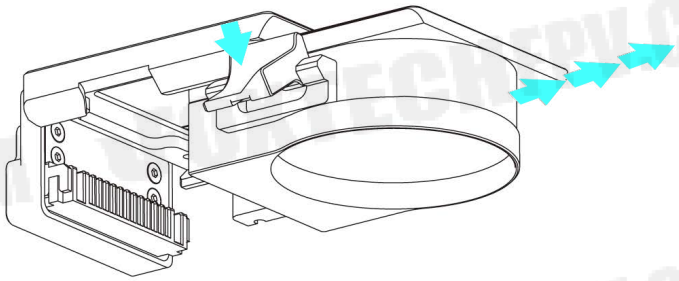
⚠ Please make sure that the payload is tightly locked and the lock hook is in lock position. Donot detach the payload when it is still powering on, or the device will be damaged.



Detach

Flip the lock hook to the unlock position, press down the lock on the other side and take down the payload.





Software

Interface Introduce

① Pseudo color switch

② Laser night vision mode on/off

③ Laser rangefinder on/off (displayed on the menu bar above the display area

④ Pic-in-pic display mode switch

⑤ Switch from Follow Mode to Free Mode

Software Configuration

IP Address: rtsp://192.168.1.108

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