

# FOXTECH SEEKER-18 HD 18X OPTICAL ZOOM CAMERA WITH 3-AXIS GIMBAL

## USER MANUAL



**FOXTECH**

No.9 Haitai Fazhan Sixth Avenue XiQing District Tianjin China

Telephone: +862227989688

Email: support1@foxtechfpv.com

Http://www.foxtechfpv.com

## **BRIEF INTRODUCTION**

FOXTECH SEEKER-18 is a professional 18x Optical Zoom Camera with 3-Axis Gimbal that designed for small multicopters. This 18x zoom gimbal can be applied in the fields like military reconnaissance, police investigation, police surveillance and evidence collection, power line inspection, disaster prevention and mitigation, emergency monitoring, and rescue etc.

## **FEATURES**

- All in one design, the 18x zoom optical camera included.
- With a compact structure yet easy to install.
- Plug and play with new intelligent solutions.
- The built-in magnetic encoder accurately senses the change of motor motions.
- The seamless shaft rotating technology brings a smooth operation.
- Secured built-in motor ensures an orderly rotation to avoid the possible stranding.

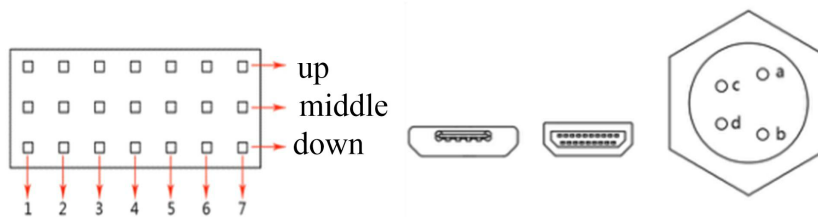
## **GIMBAL SPECIFICATIONS**

- Dimensions: 156 x 156 x 145mm
- Input voltage: 4S~6S
- Operating temperature: -5°C~45°C
- Augmentation axis: 3 axis
- Angle motion range: -40°~40° (Rolling angle);  
-120°~30° (Pitching angle);  
-170°~170°(Horizontal Direction)
- Controlling precision: 0.03°
- Supported Receiver : Conventional Receivers
- Weight: 600g
- Material: Aviation aluminum alloy, nylon

## FEATURES OF 18X ZOOM CAMERA

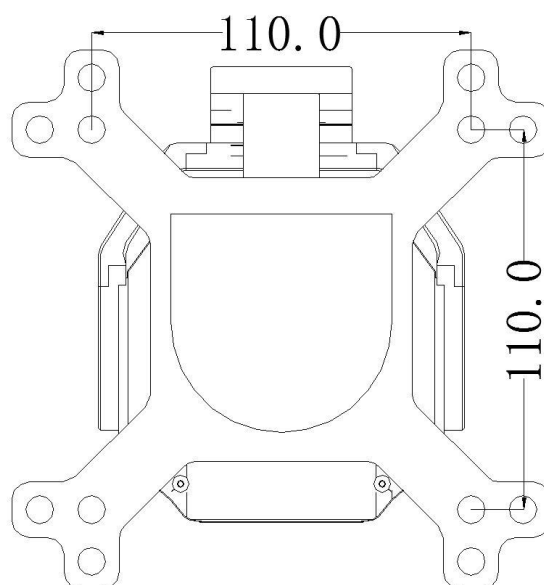
- 1/4 inch 3 million pixels CMOS SENSOR
- Video Resolution: 1080P/30 frame
- 18X zoom optical camera
- Support wide dynamic, dynamic range up to 105dB
- Real-time fast focus function, focus time<2S
- Automatic white balance, automatic gain, automatic color correction

## INTERFACE DEFINITIONS:



	1	2	3	4	5	6	7	a	b	c	d
<b>Up</b>	PWM1	PWM2	PWM3	PWM4	PWM5	PWM6	TX	Blue	Brown	Black	White
<b>Middle</b>	+5V	+5V	+5V	+5V	+5V	+5V	RX				
<b>Down</b>	GND	GND	GND	GND	GND	GND	GND				
<b>Definition</b>	Roll control	Pitch control	Zoom control	Direction control	Mode switch control	Video / photo control	Serial port control	Video output	GND Video GND	GND	Power

## INSTALLATION DIMENSIONS

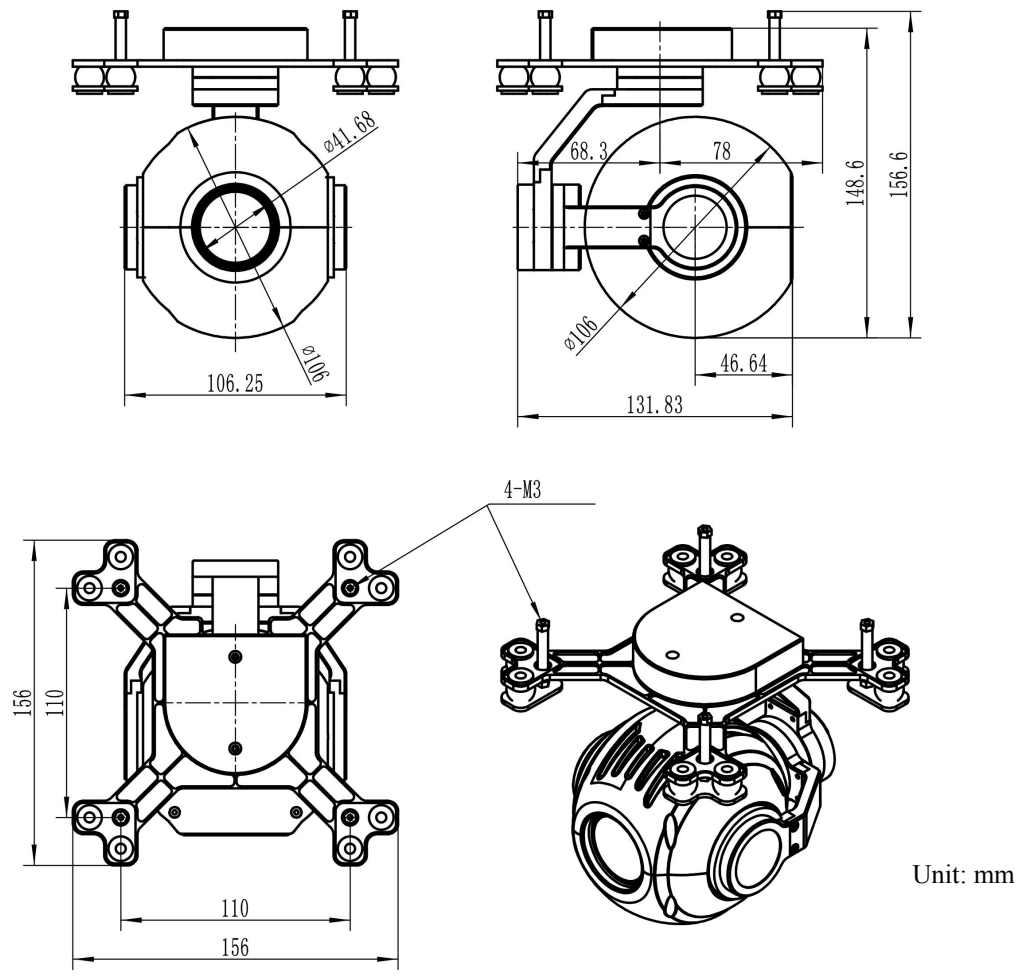


## PACKAGE INCLUDED

1. Foxtech Seeker-18 HD 18X Optical Zoom Camera with 3-axis gimbal × 1
2. Plug cable × 1
3. Aluminum alloy case × 1
4. Spare damper and board × 4
5. User manual × 1

## CAUTIONS

1. Input voltage: Supports 4-6s only.
2. Please allow 2 seconds for the self-checking of gimbal after powering on. The self-checking is done once a reminder tone is heard. Please do not shake the gimbal during the self-checking. If there's no reminder tone for a long time and the gimbal failed to self-check, please re-connect to the power.
3. Recommend 3 modes of switch control to record and take pictures. Stop at low mode, record at middle mode and non-stop recording at high mode.
4. Make sure to stop recording before powering off so as to avoid the possible damage to the recorded videos.
5. Three modes of the gimbal: Lock Mode (low-grade), Follow Mode (Mid-grade), Camera Down Mode (High-grade). The gimbal will return to middle after switching to Lock Mode from other modes.
6. Any removal and modifications of the gimbal are prohibited. Or you can not enjoy the after-sales service. And as for the loss caused by, we don't undertake any responsibility.
7. We reserve the rights for information modification in terms of product specifications and performance without prior notification.



Unit: mm

**PACKADGE**

