

# SEEKER 20-360

20X Optical Zoom Camera with 3-Axis Gimbal

User Manual

V1.0 2019.08

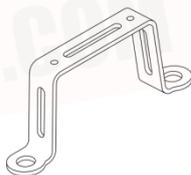


**FOXTECH**

## Packing List



Camera x1



Fixed part x2



Damping ball x4

## Specification

Seeker 20-360 supports 20X optical zooming, adopts 1/3" 2.0 Megapixel CMOS sensor, effective pixels is 2.0 Megapixel. It adopts advanced 3-axis stabilization, which can keep the camera steady under any states, like high speed and intense shaking status. SEEKER 20-360 can be applied in many fields: Power line inspection, emergency monitoring, searching, rescue and other fields.

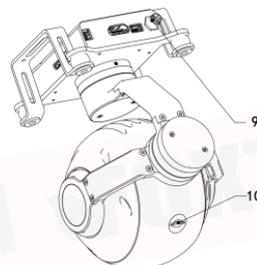
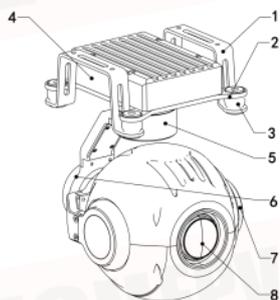
The gimbal also supports 360 degree rotation.

The 3-axis gimbal also has the Intelligent Gimbal Speed Regulation function: has FAST speed and LOW speed modes. Fast speed mode is used for small zooming range, which makes the gimbal control sensitive and quick. LOW speed mode is used for large zooming range, will enable you to target the object more accurately.

This 3-axis gimbal also has one-key back to center function.

SEEKER-20 supports S.BUS control and serial command control.

The video supports HDMI and Network port output also has one-key switching function.

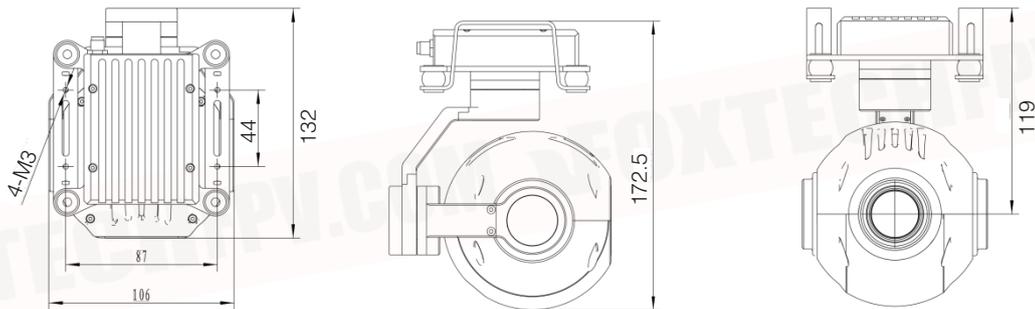




Control box back view

- |                     |                      |                    |
|---------------------|----------------------|--------------------|
| 1. Fixed part       | 2. PTZ damping plate | 3. Damping ball    |
| 4. Control box      | 5. Yaw axis motor    | 6. Roll axis motor |
| 7. Pitch axis motor | 8. HD zoom camera    | 9. Power supply    |
| 10. TF card         |                      |                    |

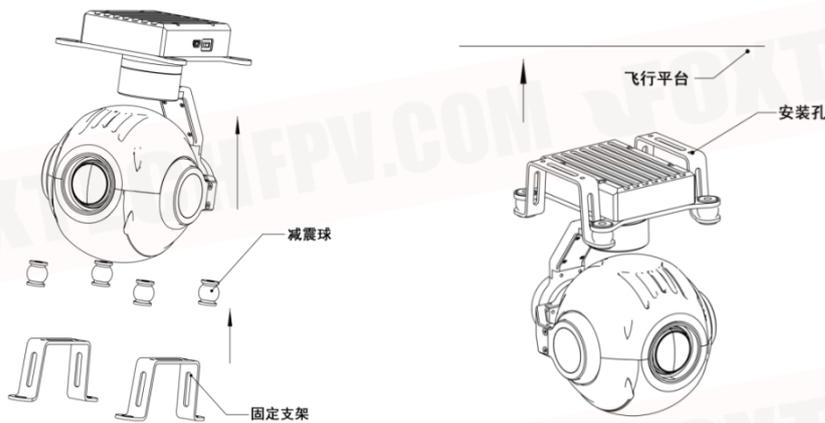
## Outline and Mounting Hole Size Chart



## Installation

1. Installation preparation
  - a. Supported device types installed  
SEEKER-20 pod must to work with HDMI high-definition image transmission (1080P)/network port HD image transmission.
  - b. Support TF card The pod TF memory card does not support hot plugging  
PTZ camera TF card supports up to 64GB. Please use Class10 or UHS-1 for normal video recording.
2. Install pod
  - a. Assembled the fixed part, the damping ball and the main body of the SEEKER 20X pod together.
  - b. Mounting the assembled pod on the flight platform through a fixed hole.
  - c. Install the TF card.
  - d. When the DuPont plug of the SBUS port is plugged in, make sure that the side of the DuPont plug exposed terminal does not touch the junction box, for avoiding the touching of the terminal and the metal case by the reverse insertion.

3. Network port settings

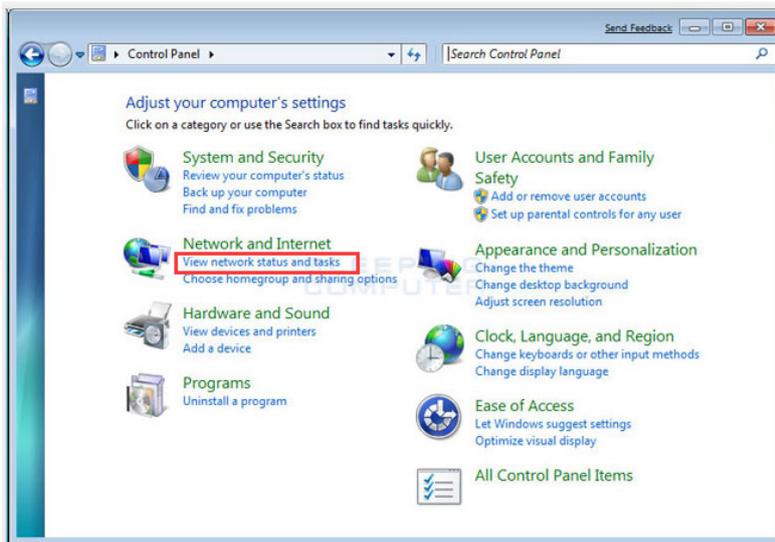


## SBUS Channel

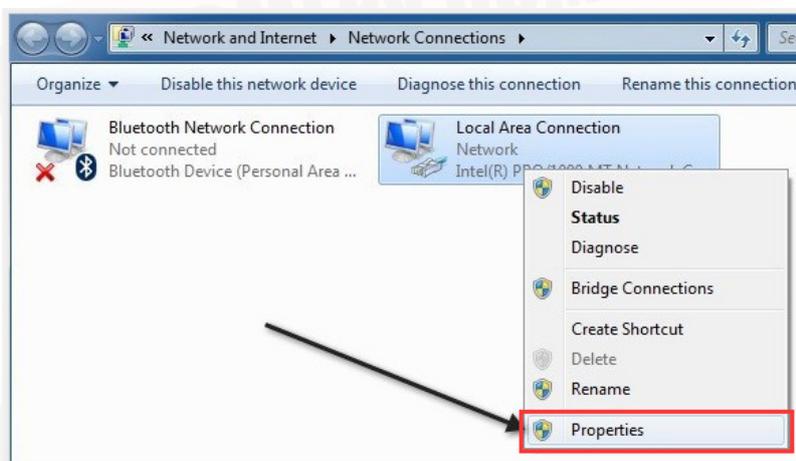
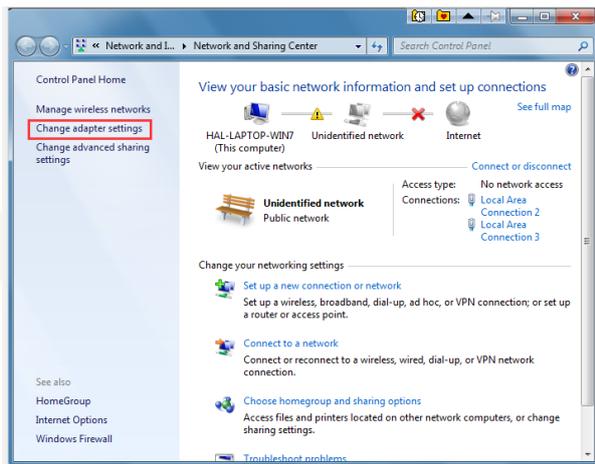
Channel	Operation	Function	Notes
RC_CH1	Middle- ->up	Roll Control: image clockwise	Rotating speed is linearly related to the switch position
	middle- ->down	Roll Control: image anticlockwise	
	middle	Roll Control: Pause, stand by	
RC_CH2	middle- ->down	Pitch Control: up	Rotating speed is linearly related to The switch position
	middle- ->up	Pitch Control: down	
	middle	Pitch Control: pause, stand by	
RC_CH3	middle- ->up	Zoom Control: small zoom	Zoom is linearly related to the switch position
	middle >down	Zoom Control: large zoom	
	middle	Zoom Control: Pause, stand by	
RC_CH4	middle- ->down	Yaw Control: turn left	Rotate speed is linearly related to the switch
	middle- ->up	Yaw Control: turn right	
	middle	Yaw Control: pause, standby	
RC_CH5	up	Lens straight down	
	middle	Tracking mode	
	down	Gimbals lock mode	
RC_CH6	middle-> up	Taking photo	
	middle-> down	shooting	
	middle	standby	
RC_CH7			
RC_CH8	down	standby	
	down-> up	One key back to center	

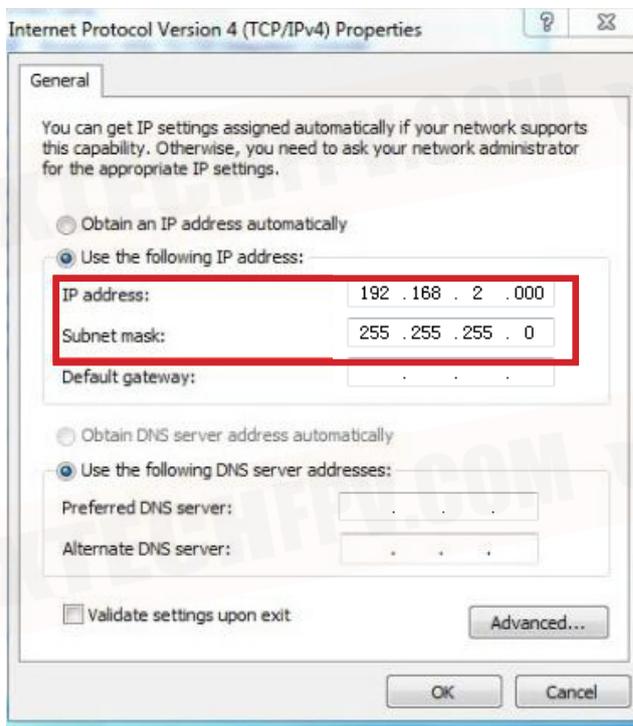
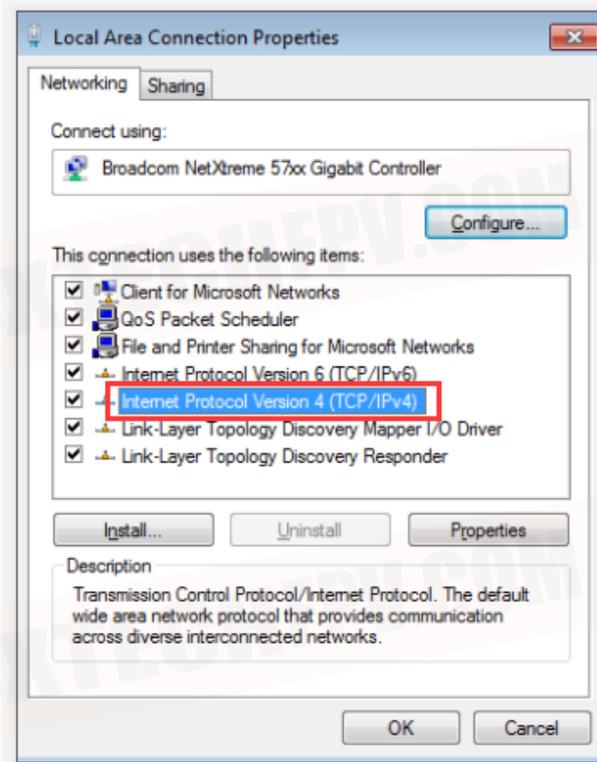


1. Please close the firewall !
2. Open "Control Panel" "Network and Sharing Center".



3. Click the "Local Area Connection" icon "Properties" double-click "Internet Protocol Version 4 (TCP/IPv4)"





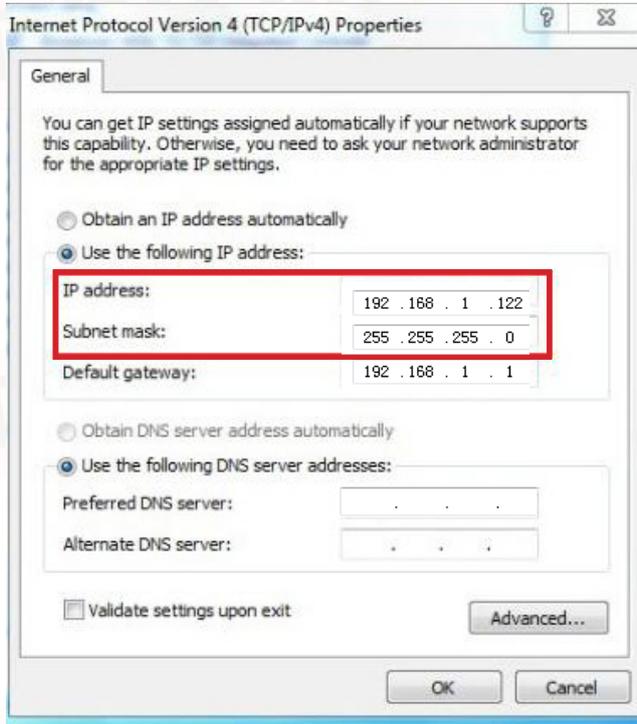
4. Click "OK" button and finish it!

The software of PC side recommends "vlc media player" and "easy player", which can be searched and downloaded online.

Easy player download link: <https://github.com/EasyDSS/EasyPlayer/tags>

Vlc media player download address: <http://www.videolan.org/>

Easy player just fill in the IP link of the movement in any address bar +/main (example: 192.168.1.69/main), cancel the "TCP" option, and keep the "hard solution" option. Finally click play.



5. Vlc media player

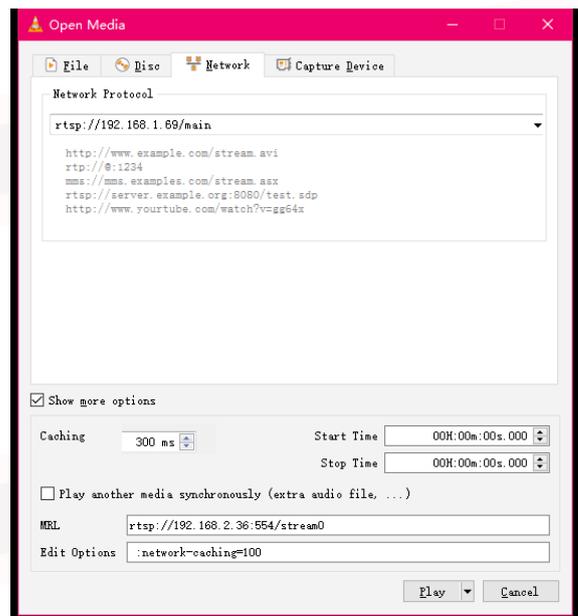
媒体(M) → 打开网络串流(N)... → 网络(N)

Enter the web URL  
(rtsp://192.168.1.69/main)

显示更多选项(O) → 正在缓冲 300ms

(The video effect is best when input 300ms,)

Easy player just fill in the IP link of the movement in any address bar +/main (example: 192.168.1.69/main), cancel the "TCP" option, and keep the "hard solution" option. Finally click play.



This content is subject to change.

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