

FH318(720P) Manual

—— Pro 3-axis 18x Optical Zoom Aerial Camera SPECS



PL318S professional 3-axis zoom gimbal, with high

accuracy encoder FOC solution, mount 18x optical zoom and 720p Full HD camera, providing a detailed long distance zoom aerial shoot, is designed for public security, fire protection, power industry etc.

Features:

Light: 535g weight

Small: 137(L) x 88(W) x 135(H)mm

Power saving: 330mA@12V

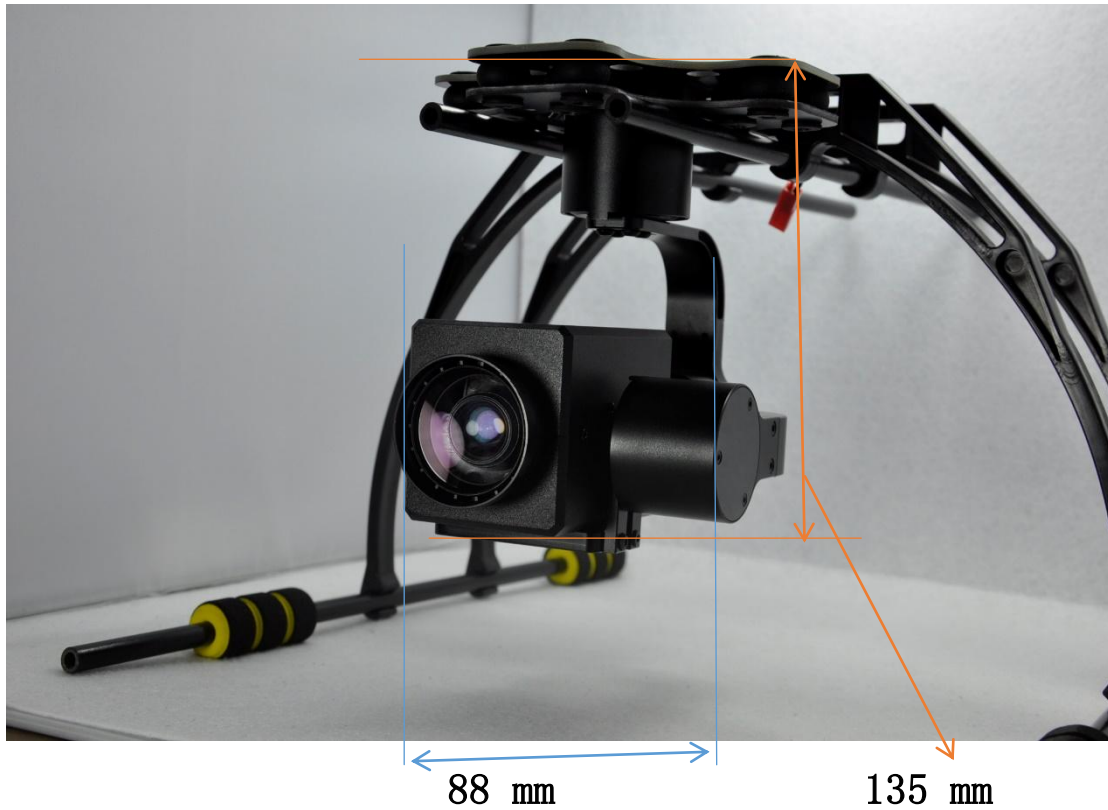
Unparalleled stabilization: $\pm 0.02^\circ$

Electronic properties:

Voltage	3s (11.1v)	IDDQ	330mA@12V
IDDT	450mA @12V	Temp	-10~+50 ° C
Dimensions	137(L) x 88(W) x 155(H)mm	Weight	535g

Performance:

Pitch: -90° to $+90^\circ$
Roll: -90° to $+90^\circ$
Yaw: -150° to $+150^\circ$ smooth rotation
Angular Vibration Range: Pitch & Roll: 0.02° Yaw: 0.03°



Gimbal:

1. Adjustable speed and mode: When zoomed in, with low speed and lock head mode, the control is more accurate; when zoomed out, with high speed and follow mode, the control is more sensitive and quick.
2. Onekey reset: The camera can auto return to its original position quickly with one click.
3. Support PWM and serial port command control, suitable for close range controller or remote digital gimbal control.

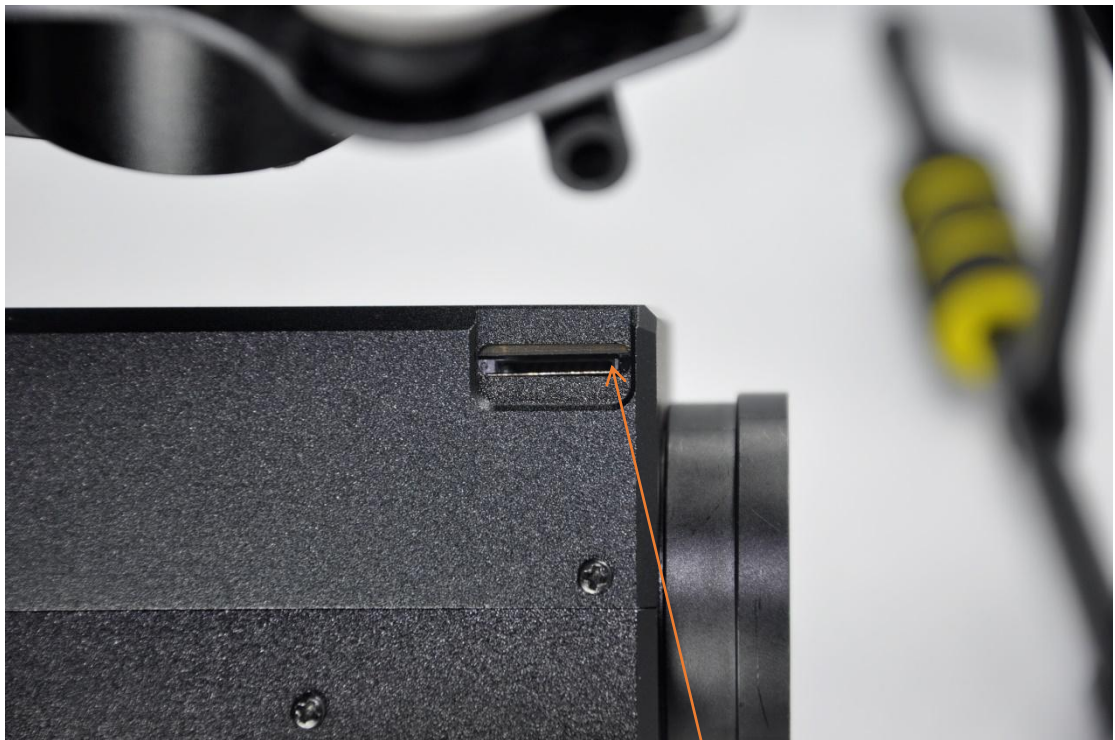
Camera:

1. 18x optical zoom, Full HD 720p video streaming, 14MP shoot, stunning clearly plate within only 200M.
2. Ultrafast auto focus, which speed is less than 1s, specially designed for drones.
3. Various interfaces, analog video output, HDMI HD video output, SD card storage for photo、 video, PWM control of camera zoom 、 auto focus、 manual focus、 photograph、 recording, support serial port control of the camera`s functions, IR controller call camera menu and set the parameters.





Micro HDMI



Micro SD slot



Camera parameter

remote control

PWM control gimbal camera connection manual:

1. 5P gimbal PWM control wire manual:

3p Dupont orange(**PITCH** channel)、red(**5V** Power the receiver)、black(**GND** receiver): Connect to receiver stick or three-way switch channel.

1p Dupont green(**YAW** channel): Connect to receiver stick or three-way switch channel.

1p Dupont blue(**MODE** Switch operate mode): Connect

to receiver rotary knob or non-auto reset THR channel or three-way switch channel, specifics as below:

Switch to low: Gimbal low speed, lock head(When the drone turns, gimbal follows, only controlled by controller);

Switch to middle: Gimbal high speed, follow(Gimbal follows the drone`s direction, and controlled by ground controller);

Switch to high: Gimbal reset, follow(Gimbal return to its original position, and follows the drone`s direction).

2. 7P camera signal and control wire connection manual:

1p Dupont blue(**ZOOM** Camera zoom control wire, spare wire[Spare usually, if uses, Connect to receiver stick or three-way switch channel.]).

2p Dupont yellow(**AV** analog signal output)、green(**GND** Analog video GND):Connect to AV channel.

1p Dupont green(**zoom** Auto focus control wire):
Connect to receiver stick or three-way switch channel.

1p Dupont yellow(**focus** Manual focus control wire):
Connect to receiver stick or three-way switch channel.

1p Dupont white(**pic** Switch photo/video mode):

Connect to three-way switch channel.

Switch from middle to high: Photo or video mode switch

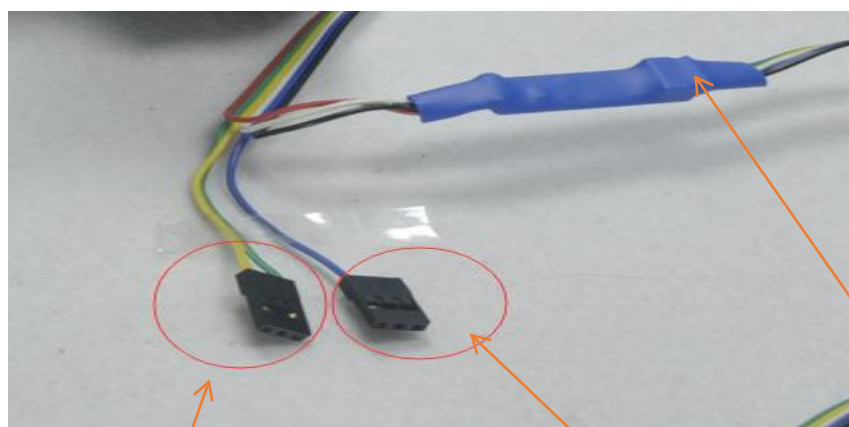
Switch from middle to low:

- ① Video mode: Screenshot;
- ② Photo mode: Take photos.

2p Dupont blue(**record** Start/stop recording),
black(GND):Connect to three-way switch channel.

① Video mode, switch from middle to high: Start recording; Switch from middle to low: Stop recording;

② Photo mode, switch from middle to high: Take photos.



Yellow: AV OUT

Green: GND

Camera zoom spare wire

PWM board

