



Topotek (Beijing) Technology CO.,Ltd

Zoom Camera Manufacturer for UAV

Concentration makes Profession



TAOBAO



WEBSITE

Company Profile

Topotek (Beijing) focuses on developing zoom cameras for UAV. The mature products are 10x, 18x, 20x, 30x, 36x optical zoom cameras, UAV pod and gimbal. Recently, Topotek has developed dual optical zoom camera which enables HD video recording under visible light and infrared light. It also supports picture-in-picture display function. The techniques of intelligent video processing are mainly base on our camera's zoom feature, including human face recognition, movement tracking, pattern recognition, car license plate recognition, and autoalarm, etc.

| | |
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TOP-1031T/TOP-1032H/TOP-1035H

10X Zoom Camera for UAV

TOP-103X is a series of 10x optical zoom cameras with a 5M/3M CMOS sensor, which supports quick Auto-Focusing (AF). It has two video streams that one is local TF card handling HD videos at 1080P, 30FPS and the other is output of CVBS signals(D1 format) or HDMI videos(720P). Also,this product supports wireless transmitter of HD videos.

Function Description

Zoom

10x Zoom; Focus Range: 4.9~49 mm

Focus Speed

Quick AF: < 2 secs

OSD

Support IR control and OSD menu setting

Video Output

CVBS Signals in D1 format and local TF card handling videos at 1080P, 30FPS

Multi Protocol Control

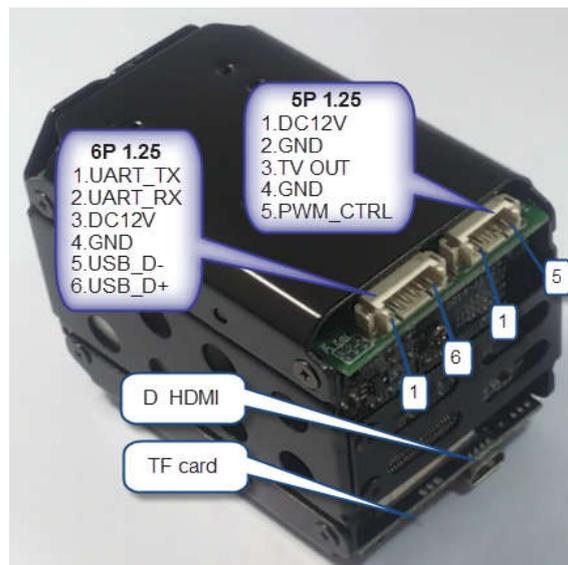
Support VISCA, hitachi and PELCO-D protocol;Support PWM signal control of UAV

Size & Weight

63mm×37mm×45mm; Weight: 122g



| Data port | |
|-----------------------|----------|
| 6PIN connector | |
| 1 | UART_TX |
| 2 | UART_RX |
| 3 | DC12V |
| 4 | GND |
| 5 | USB_D- |
| 6 | USB_D+ |
| 5PIN connector | |
| 1 | DC12V |
| 2 | GND |
| 3 | TV OUT |
| 4 | GND |
| 5 | PWM CTRL |



TOP-1031T doesn't Support HDMI Port

| TOPOTEK 10X ZOOM CAMERA | | | | |
|------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------|-------------------------|-------------------|
|  | | | | |
| Model | TOP-1031T | TOP-1032H | TOP-1035H(super clear) | |
| Power Supply | DC 9V □ 12V (recommend: 9V or 12V) | | | |
| Consumption | 2W | | | |
| CMOS | Sensor | 1/4 inch | 1/3 inch | 1/3 inch |
| | Total Pixel | 5M emos sensor | 3M emos sensor | 3M emos sensor |
| | Valued Pixel | 2592(H) x 1944(V) | 2304(H) x 1536(V) | 2592(H) x 1944(V) |
| | Wide Range | 69dB | 69dB | 69dB |
| Optics | Zoom | 10X, f=4.9 to 49mm | | |
| | Minimum Distance | 1.5m | | |
| | Horizontal Range | 53.2°(Near) to 5.65°(Far) | | |
| | Vertical Range | 39.8°(Near) to 4.2°(Far) | | |
| | Scanning | Progressively scan | | |
| Function | Video Recording | 1080P 30fps Local TF card record | | |
| | HDMI Output | None | 720P/480P 60fps HDMI1.4 | |
| | Analog Output | Standard CVBS 1Vp-p | | |
| | SNR | 48 dB | | |
| | Min illumination | Color 0.05lux@F1.6 | | |
| | BLC | Support back light compensation | | |
| | IRCUT | Color/mono mode | | |
| | AE | Auto | | |
| | AWB | Atuo /menu setting | | |
| | Shutter | Auto | | |
| | Control Mode | UART control /IR control /UAV PWM | | |
| | Protocal | PELCO-D, Hitachi and VISCA protocal | | |
| | Focus mode | Auto/manual/one time focus | | |
| | Focus Speed | 2s | | |
| | Initialize | Auto | | |
| Preset Position | 20set | | | |
| Image Flip | Mirror/overturn | | | |
| Interface | TF card , 6 pin 1.27mm +5pin connector | | | |
| HD HDMI | NO | default is D type HDM | | |
| Device Size | 37(W)×45(H)×63(D)mm | | | |
| Working Condition | 0°C to +55°C / 20% to 80% RH | | | |
| Storage Condition | -20°C to +60°C / 20% to 95% RH | | | |
| Weight | 122g | | | |

TOP-1041T/ TOP-1042H

10X Zoom Camera for UAV

TOP-104X is a series of 10x optical zoom camera with a 2M CMOS sensor, which supports quick AF. It has two video streams that one is local TF card handling HD videos at 1080P, 30FPS and the other is output of CVBS signals(D1 format) or HDMI videos(720P). Also,this product supports wireless transmitter of HD videos, IRIS and IRCUT functions.

Function Description

Zoom

10x Zoom; Focus Range: 4.7~47mm

Focus Speed

Quick-reacting auto focus

OSD

Support IR control and OSD menu setting

Video Output

CVBS signals in D1 format and HDMI videos; local TF card handling videos at 1080P, 30FPS

Multi Protocol Control

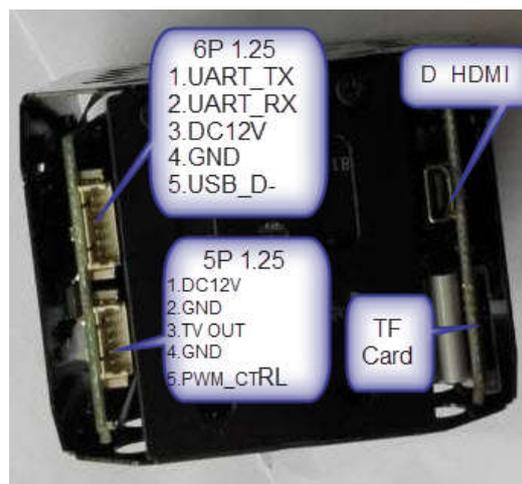
Support VISCA, hitachi and PELCO-D protocol; Support PWM signal control of UAV.

Size & Weight

68mm×44mm×54mm; Weight: 159g



| Data port | |
|-----------------------|----------|
| 6PIN connector | |
| 1 | UART_TX |
| 2 | UART_RX |
| 3 | DC12V |
| 4 | GND |
| 5 | USB_D- |
| 6 | USB_D+ |
| 5PIN connector | |
| 1 | DC12V |
| 2 | GND |
| 3 | TV OUT |
| 4 | GND |
| 5 | PWM CTRL |



| TOPOTEK 10X ZOOM CAMERA | | | |
|------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------|-------------------------|
|  | | | |
| Model | TOP-1041T | TOP-1042H | |
| Power Supply | DC 9V □ 12V (recommend: 9V or 12V) | | |
| Consumption | 2W | | |
| CMOS | Sensor | 1/2.7 inch | 1/2.7 inch |
| | Total pixel | 2M cmos sensor | |
| | Valued pixel | 1920(H) x 1080(V) | |
| | Wide range | 69dB | |
| Optics | Zoom | 10X, f=4.7 to 47mm | |
| | Minimum Distance | 1.5m | |
| | Horizontal Range | 60.9°(Near) to 6.43°(Far) | |
| | Vertical Range | 40.1°(Near) to 4.1°(Far) | |
| | Scanning | Progressively scan | |
| Function | Video Recording | 1080P 30fps Local TF card record | |
| | HDMI Output | None | 720P/480P 60fps HDMI1.4 |
| | Analog Output | Standard CVBS 1Vp-p | |
| | SNR | 48 dB | |
| | Minimum Illumination | Color 0.05lux@F1.6 | |
| | BLC | Support back light compensation | |
| | IRCUT | Color/mono mode | |
| | AE | Auto | |
| | AWB | Auto /menu setting | |
| | Shutter | Auto | |
| | Control Mode | UART control /IR control /UAV PWM | |
| | Protocal | PELCO-D, Hitachi and VISCA protocal | |
| | Focus Mode | Auto/manual/one time focus | |
| | Focus Speed | 2s | |
| | Initialize | Auto | |
| | Preset Position | 20set | |
| Image Flip | Mirror /overtum | | |
| Interface | TF card , 6 pin 1.27mm +5pin connector | | |
| HD HDMI | NO | default is D type HDM | |
| Device Size | 44(W)×52(H)×67(D)mm | | |
| Working Condition | 0°C to +55°C / 20% to 80% RH | | |
| Storage Condition | -20°C to +60°C / 20% to 95% RH | | |
| Weight | 167 克 | | |

TOP-1831T/TOP-1832H

18X Zoom Camera for UAV

TOP-183X is a series of 18x optical zoom camera with a 5M/3M CMOS sensor, which supports quick AF. It has two video streams that one is local TF card handling HD videos at 1080P, 30FPS and the other is output for CVBS signals(D1 format) or HDMI video(720P). Also,this product supports wireless transmitter of HD videos.

Function Description

Zoom

18x Zoom; Focus Range: 4.85~82mm

Focus Speed

Quick AF, < 2 secs

OSD

Support IR control and OSD menu setting

Video Output

CVBS signals in D1 format; local TF card handling videos at 1080P, 30FPS

Multi Protocol Control

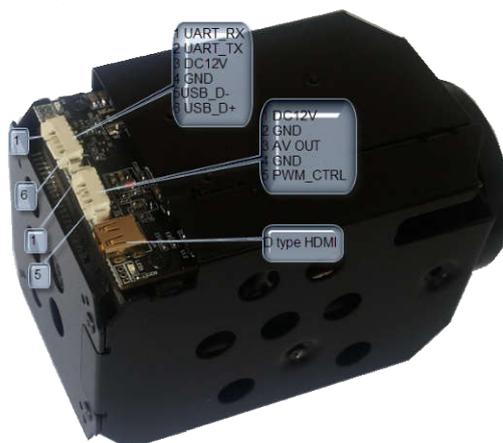
Support VISCA, hitachi and PELCO-D protocol; Support the PWM signal control of UAV.

Size & Weight

88mm×50mm×58mm; Weight: 218g



| Data port | |
|-----------------------|----------|
| 6PIN connector | |
| 1 | UART_TX |
| 2 | UART_RX |
| 3 | DC12V |
| 4 | GND |
| 5 | USB_D- |
| 6 | USB_D+ |
| 5PIN connector | |
| 1 | DC12V |
| 2 | GND |
| 3 | TV OUT |
| 4 | GND |
| 5 | PWM CTRL |



| TOPOTEK 18X ZOOM CAMERA | | | |
|------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------|-------------------------|
|  | | | |
| Model | TOP-1831T | | TOP-1832H |
| Power Supply | DC 9V □ 12V (recommend: 9V or 12V) | | |
| Consumption | 2W | | |
| CMOS | Sensor | 1/4 inch | 1/3inch |
| | Total Pixel | 5M cmos sensor | 3M cmos sensor |
| | Valued Pixel | 2592(H) x 1944(V) | 2304(H) x 1536(V) |
| | Wide Range | 73dB | 73dB |
| Optics | Zoom | 18X, f=4.7 to 84.6mm | |
| | Minimum Distance | 1.5m | |
| | Horizontal Range | 54.8°(Near) to 3.4°(Far) | |
| | Vertical Range | 41°(Near) to 2.5°(Far) | |
| | Scanning | Progressively scan | |
| Function | Video Recording | 720P/480P 60fps HDMI1.4 | |
| | HDMI Output | NO | 720P/480P 60fps HDMI1.4 |
| | Analog Output | Standard CVBS 1Vp-p | |
| | SNR | 48 dB | |
| | Minimum Illumination | Color 0.05lux@F1.6 | |
| | BLC | Support back light compensation | |
| | IRCUT | Color/mono mode | |
| | AE | Auto | |
| | AWB | Atuo /menu setting | |
| | Shutter | Auto | |
| | Control Mode | UART control /IR control /UAV PWM | |
| | Protocal | PELCO-D, Hitachi and VISCA protocal | |
| | Focus Mode | Auto /manual /one time focus | |
| | Focus Speed | 2s | |
| | Initialize | Auto | |
| | Preset Position | 20set | |
| | Image Flip | Mirror /overtum | |
| Interface Port | TF card , 6pin 1.27mm +5pin connector, 30P coaxial cable | | |
| HD HDMI | NO | default is D type HDMI | |
| Device Size | 50(W)×58(H)×88(D)mm | | |
| Working Condition | 0°C to +55°C / 20% to 80% RH | | |
| Storage Condition | -20°C to +60°C / 20% to 95% RH | | |
| Weight | 218 克 | | |

TOP-1082H

10X Zoom Camera for UAV

TOP-1082H is a 10x optical zoom camera with a 4M CMOS sensor, which supports quick AF. It has two video streams that one is local TF card handling HD videos at 1080P, 30FPS and the other is output for AV or HDMI videos(1080P). Also, this product supports wireless transmitter of HD videos.

Function Description

Zomm

10x Zoom; Focus Range: 4.9~49mm

Focus Speed

Quick AF, < 2 secs

OSD

Supported IR control and OSD menu setting

Video Output

HDMI1.4 at 1080P/720P, 60fps; HDMI or AV output; Support 1080P TF card recording and 30P thin cable interface.

Multi Protocol Control

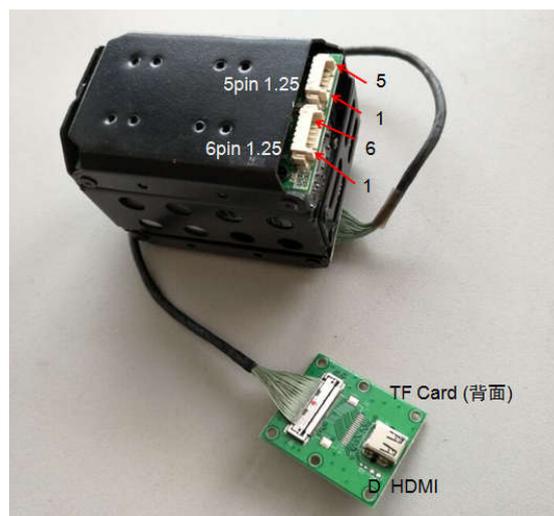
Support VISCA, hitachi and PELCO-D protocol; Support PWM signal control of UAV

Size & Weight

63mm×37mm×45mm; Weight: 122g



| Data port | |
|-----------------------|----------|
| 6PIN connector | |
| 1 | UART_TX |
| 2 | UART_RX |
| 3 | DC12V |
| 4 | GND |
| 5 | USB_D- |
| 6 | USB_D+ |
| 5PIN connector | |
| 1 | DC12V |
| 2 | GND |
| 3 | TV OUT |
| 4 | GND |
| 5 | PWM CTRL |



TOPOTEK 10X ZOOM CAMERA



| | | |
|--------------------------|-------------------------|------------------------------------------------------------|
| Model | | TOP-1082H |
| Power Supply | | DC 9V □ 12V (recommend: 9V or 12V) |
| Consumption | | 2W |
| CMOS | Sensor | 1/3inch |
| | Total Pixel | 4M cmos sensor |
| | Valued Pixel | 2688(H) x 1520(V) |
| | Wide Range | 65dB |
| Optics | Zoom | 10X, f = 4.9~49mm |
| | Minimum Distance | 1.5m |
| | Horizontal Range | 53.2°(Near) to 5.65°(far) |
| | Vertical Range | 39.8°(Near) to 4.2°(far) |
| | Scanning | Progressively scan |
| Function | Video Recording | 1080P 30fps Local TF card record |
| | HDMI output | 1080P/720P/480P 60fps HDMI1.4 |
| | Analog output | Standard CVBS 1Vp-p |
| | SNR | 38dB |
| | Min illumination | Color 0.05lux@F1.6 |
| | BLC | Support back light compensation |
| | IRCUT | Color/mono mode |
| | AE | Auto |
| | AWB | Atuo /menu setting |
| | Shutter | Auto |
| | Control Mode | UART control /IR control /UAV PWM |
| | Protocal | PELCO-D, Hitachi and VISCA protocal |
| | Focus Mode | Auto/manual/one time focus |
| | AF Time | < 2 secs |
| | Initialize | Auto |
| Preset Position | 20set | |
| Image Flip | Mirror /overturn | |
| Interface | | TF card , 6pin 1.27mm +5pin connector, 30P coaxial cable |
| HD HDMI | | 30P cable outside, default is D type HDMI and TF card port |
| Device Size | | 63mm×37mm×45mm |
| Working Condition | | 0°C to +55°C / 20% to 80% RH |
| Storage Condition | | -20°C to +60°C / 20% to 95% RH |
| Weight | | 122g |

TOP-1882H

18X Zoom Camera for UAV

TOP-1882H is a 18x optical zoom camera with a 4M CMOS sensor, which supports quick AF.It has two video streams that one is local TF card handling HD videos at 1080P, 30FPS and the other is output for AV or HDMI videos(1080P).Also,this product supports wireless transmitter of HD vidoes.

Function Description

Zoom

18x Zoom; Focus Range: 4.85-82mm

Focus Speed

Quick AF, < 2 secs

Low Light

Support day/night modes; Can record high quality videos in dim light

Video Output

HDMI1.4 at 1080P/720P, 60fps; HDMI or AV output; Support 1080P TF card recording

Multi Protocol Control

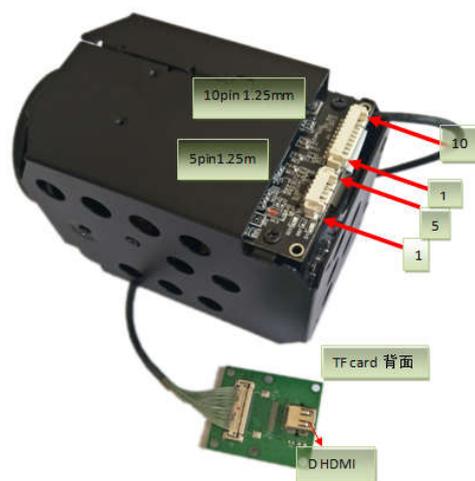
Support VISCA, hitachi and PELCO-D protocol; Support PWM signal control of UAV

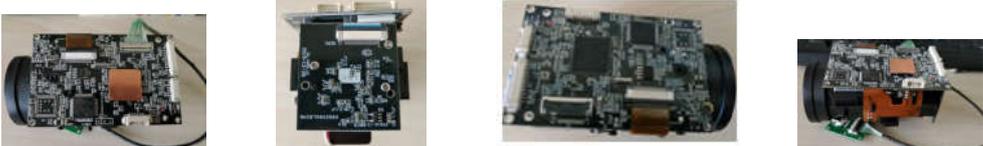
Size & Weight

88mm×50mm×58mm; Weight: 218g



| Data port | | | |
|------------------------|---------|-----------------------|----------|
| 10PIN connector | | 5PIN connector | |
| 1 | UART_TX | 1 | DC12V |
| 2 | GND | 2 | GND |
| 3 | UART_RX | 3 | TV OUT |
| 4 | DC12V | 4 | GND |
| 5 | NC | 5 | PWM CTRL |
| 6 | NC | | |
| 7 | GND | | |
| 8 | USB_D+ | | |
| 9 | USB_D- | | |
| 10 | GND | | |



| TOPOTEK 18X ZOOM CAMERA | | |
|------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------|
|  | | |
| Model | TOP-1882H | |
| Power Supply | DC 9V □ 12V (recommend: 9V or 12V) | |
| Consumption | 2W | |
| CMOS | Sensor | 1/3inch |
| | Total Pixel | 4M cmos sensor |
| | Valued Pixel | 2688(H) x 1520(V) |
| | Wide Range | 65dB |
| Optics | Zoom | 18X, f=4.7 to 84.6mm |
| | Minimum Distance | 1.5m |
| | Horizontal Range | 54.8°(Near) to 3.4°(Far) |
| | Vertical Range | 41°(Near) to 2.5°(Far) |
| Function | Scanning | Progressively scan |
| | Video Recording | 1080P 30fps Local TF card record |
| | HDMI Output | 1080P/720P/480P 60fps HDMI1.4 |
| | Analog Output | Standard CVBS 1Vp-p |
| | SNR | 38dB |
| | Min illumination | Color 0.05lux@F1.6 |
| | BLC | Support back light compensation |
| | IRCUT | Color/mono mode |
| | AE | Auto |
| | AWB | Atuo /menu setting |
| | Shutter | Auto |
| | Control | UART control /IR control /UAV PWM |
| | Protocal | PELCO-D, Hitachi and VISCA protocal |
| | Focus mode | Auto/manual/one time focus |
| | AF Time | <2 secs |
| Initialize | Auto | |
| Preset Position | 20set | |
| Image Flip | Mirror /overtum | |
| Interface | TF card , 10pin 1.27mm +5pin connector, 30P coaxial cable | |
| HD HDMI | 30P cable outside, default is D type HDMI and TF card port | |
| Device Size | 50(W)×58(H)×88(D)mm | |
| Working Condition | 0°C to +55°C / 20% to 80% RH | |
| Storage Condition | -20°C to +60°C / 20% to 95% RH | |
| Weight | 218g | |

TOP-2082H
20X Zoom Camera for UAV

TOP-2082H is a 20x optical zoom camera with a 4M CMOS sensor, which supports quick AF. It has two video streams that one is local TF card recording videos at 1080P, 30FPS and the other is HDMI video output used for its wireless transmitter.

Function Description

Zoom

20x Zoom; Focus Range: 4.7-94mm

Focus Speed

Quick AF, < 2 secs

Low Light

Support day/night modes; Can record high quality videos in dim light

Video Output

HDMI1.4 at 1080P/720P, 60fps; HDMI or AV output; Support 1080P TF card recording

Multi Protocol Control

Support VISCA, hitachi and PELCO-D protocol; Support PWM signal control of UAV.

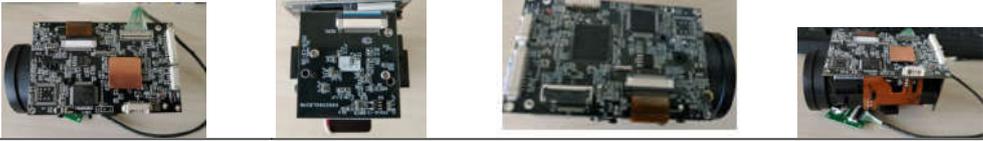
Size & Weight

88mm×50mm×58mm; Weight: 225g



| Data port | | | |
|------------------------|---------|-----------------------|----------|
| 10PIN connector | | 5PIN connector | |
| 1 | UART_TX | 1 | DC12V |
| 2 | GND | 2 | GND |
| 3 | UART_RX | 3 | TV OUT |
| 4 | DC12V | 4 | GND |
| 5 | NC | 5 | PWM CTRL |
| 6 | NC | | |
| 7 | GND | | |
| 8 | USB_D+ | | |
| 9 | USB_D- | | |
| 10 | GND | | |



| TOPOTEK 20X ZOOM CAMERA | | |
|------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------|
|  | | |
| Model | TOP-2082H | |
| Power Supply | DC 9V □ 12V (Recommend: 9V or 12V) | |
| Consumption | 2W | |
| CMOS | Sensor | 1/3inch |
| | Total Pixel | 4M cmos sensor |
| | Valued Pixel | 2688(H) x 1520(V) |
| | Wide Range | 65dB |
| Optics | Zoom | 20X, f=4.7 to 84.6mm |
| | Minimum Distance | 1.5m |
| | Horizontal Range | 55.5°(Near) to 3°(far) |
| | Vertical Range | 41°(Near) to 2.5°(far) |
| | Scanning | Progressively scan |
| Function | Video Recording | 1080P 30fps local TF card record |
| | HDMI Output | 1080P/720P/480P 60fps HDMI1.4 |
| | Analog Output | Standard CVBS 1Vp-p |
| | SNR | 38dB |
| | Min illumination | Color 0.05lux@F1.6 |
| | BLC | Support back light compensation |
| | IRCUT | Color/mono mode |
| | AE | Auto |
| | AWB | Atuo /menu setting |
| | Shutter | Auto |
| | Control Mode | UART control /IR control /UAV PWM |
| | Protocal | PELCO-D, Hitachi and VISCA protocal |
| | Focus Mode | Auto /manual /one time focus |
| | AF Time | < 2 secs |
| | Initialize | Auto |
| Preset Position | 20set | |
| Image Flip | Mirror /overturn | |
| Interface | TF card , 10pin 1.27mm +5pin connector, 30P coaxial cable | |
| HD HDMI | 30P cable outside, default is D type HDMI and TF card port | |
| Device Size | 50(W)×58(H)×88(D)mm | |
| Working Condition | 0°C to +55°C / 20% to 80% RH | |
| Storage Condition | -20°C to +60°C / 20% to 95% RH | |
| Weight | 225g | |

TOP-3082H

30X Zoom Camera for UAV

TOP-3082H is a 30x optical zoom camera with a 4M CMOS sensor, which supports quick AF. It has two video streams that one is local TF card recording HD videos at 1080P, 30FPS and the other is AV or HDMI video(1080P) output used for wireless transmitter.

Function Description

Zoom

30x Zoom; Focus Range: 4.5~135mm

Focus Speed

Quick AF, < 2 secs

Low Light

Support day/night modes; Can record high quality videos in dim light

Video Output

HDMI1.4 at 1080P/720P, 60fps; HDMI or AV output; Support 1080P TF card recording

Multi Protocol Control

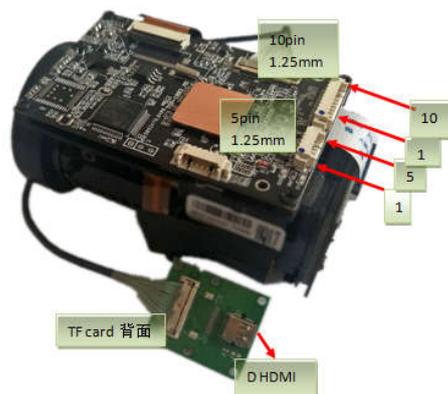
Support VISCA, hitachi and PELCO-D protocol; Support PWM signal control of UAV

Size & Weight

93mm×46mm×53mm; Weight: 149g



| Data port | | | |
|------------------|---------|----------------|----------|
| 10PIN connector | | 5PIN connector | |
| 1 | UART_TX | 1 | DC12V |
| 2 | GND | 2 | GND |
| 3 | UART_RX | 3 | TV OUT |
| 4 | DC12V | 4 | GND |
| 5 | NC | 5 | PWM CTRL |
| 6 | NC | | |
| 7 | GND | | |
| 8 | USB_D+ | | |
| 9 | USB_D- | | |
| 10 | GND | | |



| TOPOTEK 30X ZOOM CAMERA | | |
|------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------|
|  | | |
| Model | TOP-3082H | |
| Power Supply | DC 9V □ 12V (recommend: 9V or 12V) | |
| Consumption | 2.1W | |
| CMOS | Sensor | 1/3 inch |
| | Total Pixel | 4M cmos sensor |
| | Valued Pixel | 2688(H) x 1520(V) |
| | Wide Range | 65dB |
| Optics | Zoom | 30X, f=4.7 to 84.6mm |
| | Minimum Distance | 1.5m |
| | Horizontal Range | 59.8°(Near) to 2.77°(Far) |
| | Vertical Range | 40.5°(Near) to 1.48°(Far) |
| Function | Scanning | Progressively scan |
| | Video Recording | 1080P 30fps Local TF card record |
| | HDMI Output | 1080P/720P/480P 60fps HDMI1.4 |
| | Analog Output | Standard CVBS 1Vp-p |
| | SNR | 38dB |
| | Minimum illumination | Color 0.05lux@F1.6 |
| | BLC | Support back light compensation |
| | IRCUT | Color/mono mode |
| | AE | Auto |
| | AWB | Atuo /menu setting |
| | Shutter | Auto |
| | Control Mode | UART control /IR control /UAV PWM |
| | Protocal | PELCO-D, Hitachi and VISCA protocal |
| | Focus Mode | Auto /manual /one time focus |
| | Focus Speed | 2s |
| | Initialize | Auto |
| Preset Position | 20set | |
| Image Flip | Mirror /overtum | |
| Interface | TF card , 10pin 1.27mm +5pin connector, 30P coaxial cable | |
| HD HDMI | 30P cable outside, default is D type HDMI and TF card port | |
| Device Size | 93mm×46mm×53mm | |
| Working Condition | 0°C to +55°C / 20% to 80% RH | |
| Storage Condition | -20°C to +60°C / 20% to 95% RH | |
| Weight | 149g | |

TOP-3682H

36X Zoom Camera for UAV

TOP-3682H is a 36x optical zoom camera with a 4M CMOS sensor, which supports quick AF. It has two video streams that one is local TF card recording HD video at 1080P, 30FPS and the other is 1080P HDMI video output used for its wireless transmitter.

Function Description

Zoom

30x Zoom; Focus Range: 4.6~165.6mm

Focus Speed

Quick AF, < 2 secs

Low Light

Support day/night modes; Can record high quality videos in dim light

Video Output

HDMI 1.4 at 720P, 60fps; HDMI or AV output; Support 1080P TF card recording

Multi Protocol Control

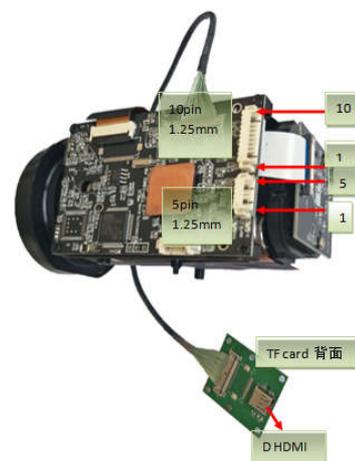
Support VISCA, hitachi and PELCO-D protocol; Support PWM signal control of UAV

Size & Weight

105mm×50mm×58mm; Weight: 315g



| Data port | | | |
|------------------------|---------|-----------------------|----------|
| 10PIN connector | | 5PIN connector | |
| 1 | UART_TX | 1 | DC12V |
| 2 | GND | 2 | GND |
| 3 | UART_RX | 3 | TV OUT |
| 4 | DC12V | 4 | GND |
| 5 | NC | 5 | PWM CTRL |
| 6 | NC | | |
| 7 | GND | | |
| 8 | USB_D+ | | |
| 9 | USB_D- | | |
| 10 | GND | | |



| Topotek 36x zoom camera for UAV | | |
|------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------|
|  | | |
| Model | TOP-3682H | |
| Power Supply | DC 9V □ 12V (recommend: 9V or 12V) | |
| Consumption | 2.1W | |
| CMOS | Sensor | 1/3inch |
| | Total Pixel | 4M pixel |
| | Valued Pixel | 2688(H) x 1520(V) |
| | Wide Range | 65dB |
| Optics | Zoom | 36X, f=4.7 to 84.6mm |
| | Minimum Distance | 1.5m |
| | Horizontal Range | 64.3°(Near) to 2.04°(Far) |
| | Vertical Range | 45.4°(Near) to 1.38°(Far) |
| | Scanning | Progressively scan |
| Function | Video Recording | 1080P 30fps local TF card record |
| | HDMI Output | 1080P/720P/480P 60fps HDMI1.4 |
| | Analog Output | Standard CVBS 1Vp-p |
| | SNR | 38 dB |
| | Minimum Illumination | Color 0.05lux@F1.6 |
| | BLC | Support back light compensation |
| | IR CUT | Color/mono mode |
| | AE | Auto |
| | AWB | Atuo /menu setting |
| | Shutter | Auto |
| | Control Mode | UART control /IR control /UAV PWM control |
| | Protocal | PELCO-D, Hitachi and VISCA protocal |
| | Focus Mode | Auto /manual /one time focus |
| | AF Time | < 2 secs |
| | Initialize | Auto |
| | Preset Position | 20set |
| Image Flip | Mirror /overtun | |
| Interface | TF card , 10pin 1.27mm +5pin connector, 30P coaxial cable | |
| HD HDMI | default is D type HDMI | |
| Device Size | 50(W)×58(H)×105(D)mm | |
| Working Condition | 0°C to +55°C / 20% to 80% RH | |
| Storage Condition | -20°C to +60°C / 20% to 95% RH | |
| Weight | 205g | |

TOP-3632H

36X Zoom Camera for UAV

TOP-3632H is a 36x optical zoom camera with a 3M CMOS sensor, which supports quick AF. It has two video streams that one is local TF card recording HD video at 1080P, 30FPS and the other is 1080P HDMI video output used for its wireless transmitter.

Function Description

Zoom

30x Zoom, Focus Range: 4.6~165.6mm

Focus Speed

Quick AF, < 2 secs

OSD

Supported IR control and OSD menu setting

Video Output

HDMI1.4 at 720P,60fps; HDMI or AV output; Support 1080P TF card recording

Multi Protocol Control

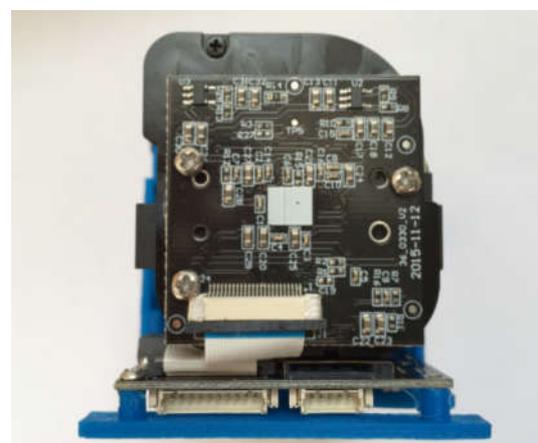
Support VISCA, hitachi and PELCO-D protocol; Support PWM signal control of UAV

Size & Weight

105mm×50mm×58mm; Weight: 315g



| Data port | | | |
|------------------------|-------------|-----------------------|----------|
| 10PIN connector | | 5PIN connector | |
| 1 | UART_T X | 1 | DC12V |
| 2 | GND | 2 | GND |
| 3 | UART_R X | 3 | TV OUT |
| 4 | DC12V | 4 | GND |
| 5 | NC | 5 | PWM CTRL |
| 6 | NC | | |
| 7 | GND | | |
| 8 | USB_D+ | | |
| 9 | USB_D- | | |
| 10 | GND | | |



| Topotek 36x zoom camera for UAV | | |
|------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------|
|  | | |
| Model | TOP-3632H | |
| Power Supply | DC 9V □ 12V (recommend: 9V or 12V) | |
| Consumption | 2.1W | |
| CMOS | Sensor | 1/3inch cmos sensor |
| | Total Pixel | 3M pixel |
| | Valued pixel | 2304(H) x 1536(V) |
| | Wide Range | 73dB |
| Optics | Zoom | 36X, f=4.7 to 84.6mm |
| | Minimum Distance | 1.5m |
| | Horizontal Range | 64.3°(Near) to 2.04°(Far) |
| | Vertical Range | 45.4°(Near) to 1.38°(Far) |
| | Scanning | Progressively scan |
| Function | Video Recording | 1080P 30fps Local TF card record |
| | HDMI Output | 1080P/720P/480P 60fps HDMI1.4 |
| | Analog Output | Standard CVBS 1Vp-p |
| | SNR | 48 dB |
| | Minimum Illumination | Color 0.05lux@F1.6 |
| | BLC | Support back light compensation |
| | IRCUT | Color/mono mode |
| | AE | Auto |
| | AWB | Atuo /menu setting |
| | Shutter | Auto |
| | Control Mode | UART control /IR control /UAV PWM |
| | Protocal | PELCO-D, Hitachi and VISCA protocal |
| | Focus Mode | Auto /manual /one time focus |
| | AF Time | < 2 secs |
| | Initialize | Auto |
| Preset Position | 20set | |
| Mirror /Overturn | Mirror /overturn | |
| Interface | TF card , 10pin 1.27mm +5pin connector, 30P coaxial cable | |
| HD HDMI | 30P cable outside, default is D type HDMI and TF card port | |
| Device Size | 50(W)×58(H)×105(D)mm | |
| Working Condition | 0°C to +55°C / 20% to 80% RH | |
| Storage Condition | -20°C to +60°C / 20% to 95% RH | |
| Weight | 205g | |

TOP-Rescue II

10x Optical Zoom Camera + Gimbal

TOP-RescueII adopts 3-axis gimbal for 10x optical zoom camera, which supports quick AF. The camera has two video streams that one is local TF card recording HD video at 1080P, 30FPS and the other is output for CVBS signals(D1 format) or HDMI videos(720P). Also this product supports wireless transmitter of HD videos.

Function Description

Zoom

Focus Range: 4.9~49mm

Angle of 3-axis

Pitch: +45° -90°

Roll: +45° -45°

Yaw: +180° -180°

Function

Lock control by one-click; photographing, filming, working temperature range from -20°C to +50°C

Video Output

CVBS signals in D1 format;Support HDMI images transmission

Control Mode

Camera: Zoom, Focus, Recording, Snapshot are based on PWM signal control

Pod: Pitch and Yaw controlled by PWM Signals.

Weight

weight: 410g



| Data Port | |
|-----------------------------|---------------------|
| Left 6PIN connector | |
| 1 | PWM |
| 2 | PWM |
| 3 | 5V |
| 4 | GND |
| 5 | AV |
| 6 | AV_GDN |
| Right 6PIN connector | |
| 1 | Zoom |
| 2 | pitch |
| 3 | mode (follow, lock) |
| 4 | direction |
| 5 | 5Voutput |
| 6 | GND |

| TOP-RescueII 10x Optical Zoom Camera + Gimbal | | |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|  | | |
| Model | Top-RescueII Gimbal | |
| Power Supply | DC 9V □ 12V (recommend: 9V or 12V) | |
| Consumption | Static 3.96W; Dynamic 5.4W | |
| Optics | Zoom | 10X, f=4.9 to 49mm |
| | Minimum Distance | 1.5m |
| | Horizontal Range | 53.2°(Near) to 5.65°(Far) |
| | Vertical Range | 39.8°(Near) to 4.2°(Far) |
| Function | Video Output | 1080P video storage, 720P HDMI output |
| | Control Mode | UAV PWM |
| | IrDA | IrDA control the menu,zoom |
| | Receiver | Conventional receiverIBUS/SBUS |
| | Jitter Angle | Pitch and Roll: ±0.02 degree Yaw: ±0.03 degree |
| | One-click Restore | Once-click restore to the initial position |
| | Gimbal Speed Adjustable | Use low speed control at big zoom status for high precision display. Use fast speed control at small zoom status |
| Control Mode | OSD menu setup,Support control by PWM signal and serial port command. Also support digital transmitter command. | |
| Static Tracking Accuracy | ±0.01°~±0.03° | |
| Motion Tracking Accuracy | ±0.05°~±0.5° | |
| Pitch | +45° -90° | |
| Roll | +45° -45° | |
| Yaw Range | -180° +180° | |
| Output Interface | D type HDMI, 6PConnection terminal | |
| Device Size | 37(W)×45(H)×63(D)mm | |
| Working Condition | 0°C to +55°C / 20% to 80% RH | |
| Storage Condition | -20°C to +60°C / 20% to 95% RH | |
| Function | Camera Protection, video conference | |
| Weight | 410g | |

TOP-FLY

10x Optical Zoom Camera + Gimbal

TOP-FLY is an excellent 3-axis auto-stabilizing gimbal developed for UAV enthusiasts. Camera adopts a 10x optical zoom lens and a 1/3 CMOS sensor. The effective pixels are 4,000,000. Besides, TOP-FLY applies Inertial Measurement Unit (IMU) to control gimbal and integrates servo drive module, which can be widely used in entertainment, aerial photograph and other drone activities, etc.

Function Description

Zoom

Focus Range: 4.9~49mm

Angle of Direction

Pitch: -100 degree ~ +45 degree

Yaw: -240 degree ~ +240 degree

Posture Control Accuracy

±0.02 degree

Output Interface

1080P, 60fps; HDMI output; 1080P TF card recording

Control Mode

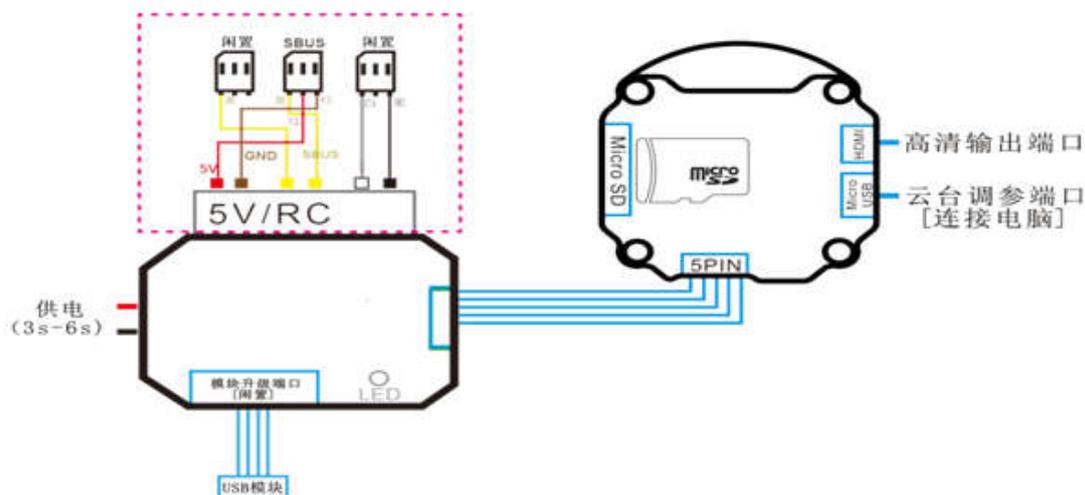
Pod controlled by SBUS or PWM signals

Size & Weight

77 mm *100 mm *147mm; weight: 365g



Data port



| TOP-FLY 10x Optical Zoom Camera + Gimbal | | |
|------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------|
|  | | |
| Model | TOP-FLY pod | |
| Power Supply | 4S~6S | |
| Consumption | Static 3.96W; moving 5.4W | |
| Working Status | Control Angle | -30°~30° (roll) , -120°~30° (pitch) ; -175°~175° (YAW direction) |
| | Receiver | Conventional receiverIBUS/SBUS |
| | control Accuracy | 0.03° |
| | Jitter Angle | Pitch and Roll: ±0.02 degree Yaw: ±0.03 degree |
| | One-click Restore | Support quick return to initial position |
| | Gimbal Speed Adjustable | Use low speed control at big zoom status for high precision display. Use fast speed control at small zoom status |
| Function | Sensor | 1/3 4M CMOS SENSOR |
| | Zoom | 10x HD optical zoom, f=4.9 to 49mm |
| | Video Output | 1080P video storage, 1080P HDMI output |
| | Auto Setting | Support awb,ae |
| | Video Recording | HDMI 1080P 60FPS output,1080P 30FPS Local TF card record. |
| Device Size | 156×156×150 (±5) mm | |
| Working Condition | -10°C to +45°C / 20% to 80% RH | |
| Storage Condition | -20°C to +60°C / 20% to 95% RH | |
| Materials | Aluminum alloy, plastic | |
| Function | Camera Protection | |
| Weight | 365 (±50) g | |

TOP-10X3D

10X Zoom Camera + Gimbal

TOP-10X3D uses a customized gimbal designed for Topotek 10x zoom camera. Before leaving the factory, all parameters of gimbal are adjusted. This enables customers to use UAV immediately after camera is installed. TOP-10X3D is capable of stabilizing flight attitude when UAV rolls, yaws and pitches in three different directions. Most practically, the integration design of damping plate and gimbal significantly reduces mechanical vibration.

Function Description

Camera

Pitch: $\pm 135^\circ$ Roll: $\pm 45^\circ$

Yaw: $\pm 135^\circ$ non-polar rotation

Jitter Angle

Pitch and Roll: $\pm 0.02^\circ$

Yaw: $\pm 0.03^\circ$

Trial Camera

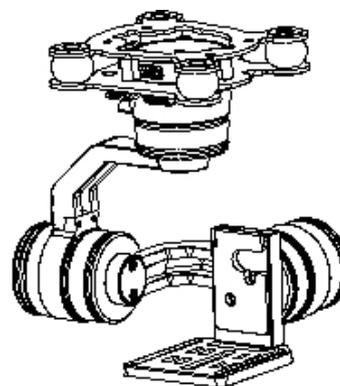
TOP-1031T; TOP-1032H; TOP-1035H; TOP-1082H

Output Interface

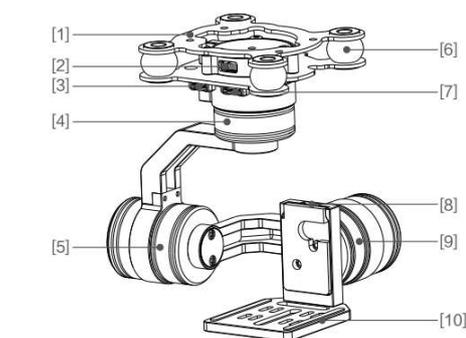
Output either CVBS signals or HDMI video

Size & Weight

L90xW110xH115mm; Weight: 280g



| Data Port | |
|---------------------------|-------|
| (3) 5PIN connector | |
| 1 | GND |
| 2 | 5V |
| 3 | RC-Y |
| 4 | RC-P |
| 5 | C-PWM |
| (7) 6PIN connector | |
| 1 | GND |
| 2 | C-TV |
| 3 | GND |
| 4 | |
| 5 | C-RX |
| 6 | |



- | | |
|-------------|-------------|
| [1] 云台挂载板 | [6] 减震球 |
| [2] 数据线插孔 | [7] 连接线插孔 |
| [3] 连接线插孔 | [8] 连接线插孔 |
| [4] 航向角方向电机 | [9] 俯仰轴方向电机 |
| [5] 横滚轴方向电机 | [10] 相机安装座 |

| 10X3D 10X Zoom Camera + Gimbal | | |
|------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------|
|  | | |
| Model | 10X3D gimbal | |
| Power Supply | 3S (11.1V) | |
| Consumption | Static 3.96W; moving 5.4W | |
| Camera | Pitch | ±135° |
| | Roll | ±45° |
| | Yaw Range | ±135 degree non-polar rotation |
| | Jitter Angle | Pitch and Roll: ±0.02 degree Yaw: ±0.03 degree |
| | One-click Restore | One-click restore to the initial position |
| | Gimbal Speed Adjustable | Use low speed control at big zoom status for high precision display. Use fast speed control at small zoom status |
| | Control Mode | OSD menu setup,Support control by PWM signal and serial port command. Also support digital transmitter command. |
| | Sensor | 1/3 3M CMOS SENSOR |
| | Zoom | 10x HD optical zoom, f=4.9 to 49mm |
| | AF Time | Real time fast auto focus; timelapse < 1 sec |
| | Video Output | Output resolution:1920X1080P 30FPS |
| | Control Mode | support PWM and UART control. |
| | Video Recording | HDMI 1080P 60FPS output,1080P 30FPS Local TF card record. |
| Device Size | L 90xW110xH115mm | |
| Working Condition | -0°C to +45°C / 20% to 80% RH | |
| Storage Condition | -20°C to +60°C / 20% to 95% RH | |
| Function | Camera Protection | |
| Weight | 420g | |

TOP-318F

Gimbal for 18X Zoom Camera

TOP-318F is a high-precision 3-axis stabilizing gimbal developed for 18x zoom camera, which adopts high-precision FOC encorder. The features are high stability, small size, light weight, and low power consumption, etc. Inside the TOP-318F, there is a 18X optical zoom camera, named TOP-1882H. It uses a 4M cmos sensor, allows either HDMI or AV video output, and records HD video at 1080P in local TF card.

Function Description

Zoom

Focus Range: 4.7~84.6mm

Jitter Angle

Pitch and Roll: $\pm 0.02^\circ$

Yaw range: $\pm 0.03^\circ$

Work Range

Pitch range: -90° to $+90^\circ$

Roll range: -85° to $+85^\circ$

Yaw range: -150° to $+150^\circ$

Output Interface

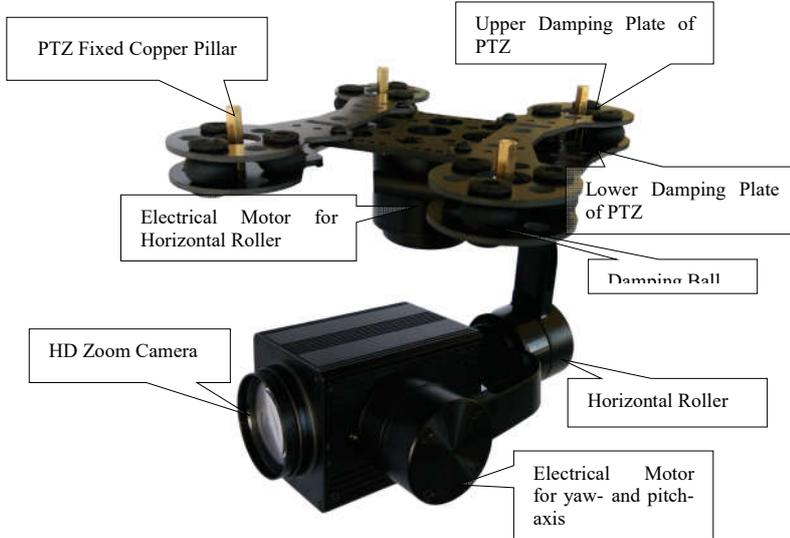
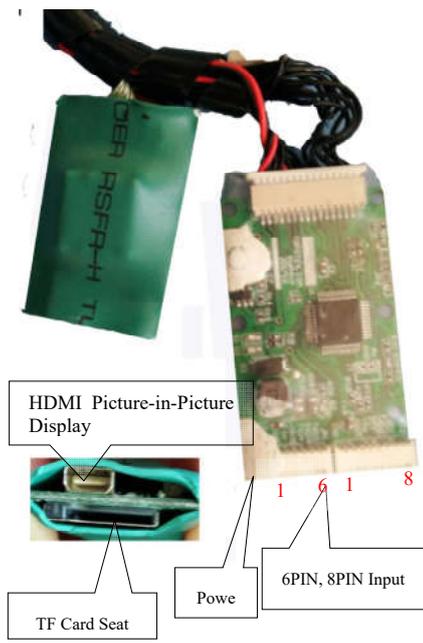
Output either CVBS or HDMI video; Record HD video at 1080P, 30fps in local TF card with H.264 compressing mode.

Control Mode

Zoom, focus, record and pod control (pitch&yaw) based on PWM signals

Size & Weight

144mm×85mm×134mm; Weight: 586g



| Model | Seq. | PIN Definition |
|-------|------|----------------|
| 6PIN | 1 | GND |
| | 2 | 5V |
| | 3 | S/I BUS |
| | 4 | TXD4 |
| | 5 | RXD3 |
| | 6 | TXD3 |
| 8PIN | 1 | GND |
| | 2 | 5V |
| | 3 | MODE |
| | 4 | YAW |
| | 5 | PIC |
| | 6 | ZOOM |
| | 7 | FOCU |
| | 8 | REC |

| 18X Gimbal | | |
|------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|  | | |
| Model | 18X gimbal | |
| Power Supply | 3S (11.1V) | |
| Consumption | Static 3.96W; moving 5.4W | |
| Work Staus | Pitch | Pitch: -90~+90 degree; |
| | Yaw Range | -150~+150 degree non-polar rotation |
| | Roll Range | Roll: -85~+85 degree |
| Gimbal | Jitter Angle | Pitch and Roll: ± 0.02 degree Yaw: ± 0.03 degree |
| | One-click Restore | One-click restore to the initial position |
| | Gimbal Speed Adjustable | Use low speed control at big zoom status for high precision display. Use fast speed control at small zoom status |
| | Control Mode | Support control by PWM signal and serial port command. Also support digital transmitter command. |
| Camera | Sensor | 1/3 4M CMOS SENSOR |
| | Zoom | 18 x HD optical zoom, f=4.7 to 84.6mm |
| | AF Time | Real time fast auto focus, timelapse < 1 sec |
| | Video Output | 1080P HDMI output and 1080P video storage |
| | Control Mode | Support OSD menu setting,PWM and UART control. |
| | Video Recording | HDMI 1080P 60FPS output,1080P 30FPS local TF card record. |
| | Tracking (Optional) | 1) Position offset update in 50Hz |
| | | 2) Offset output delay < 15ms |
| | | 3) Min distinguish 5% |
| | | 4) Min SNR is 4 |
| | 5) Min target size 16*16 pixel | |
| | 6) Max target size 160*160 pixel | |
| | 7) Tracking speed 32 pixel/every frame | |
| | 8) Main square root value of target position noise < 0.5 pixel | |
| Device Size | L144*W85*H134mm | |
| Working Condition | -10°C to +45°C / 20% to 80% RH | |
| Storage Condition | -20°C to +60°C / 20% to 95% RH | |
| Function | Camera Production | |
| Weight | 586g | |

TOP-330F

30X Optical Zoom Camera + Gimbal

TOP-330F adopts a high-precision 3-axis auto-stabilizing gimbal with a 30x zoom camera. It uses FOC encoder and the features are high stability, small size, light weight, and low power consumption, etc. Inside the TOP-330F, there is a 30X optical zoom, named TOP-3082H. It uses a 4M CMOS sensor, outputs either HDMI or AV videos. Also, it can record HD videos at 1080P in local TF card.

Function Description

Zoom

Focus range: 4.5~135mm

Jitter Angle

Pitch and Roll: $\pm 0.02^\circ$

Yaw Range: $\pm 0.03^\circ$

Work Range

Pitch Range: -90° to $+90^\circ$

Roll Range: -85° to $+85^\circ$

Yaw Range: -150° to $+150^\circ$

Output Interface

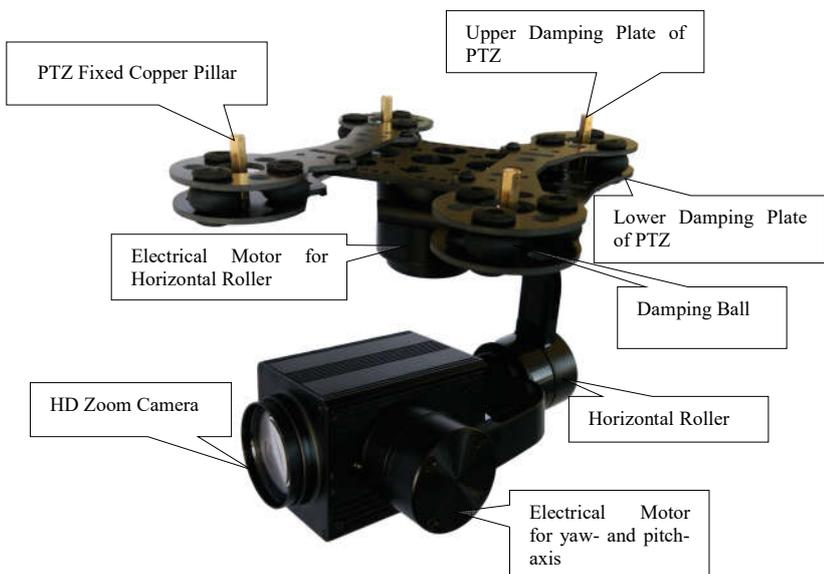
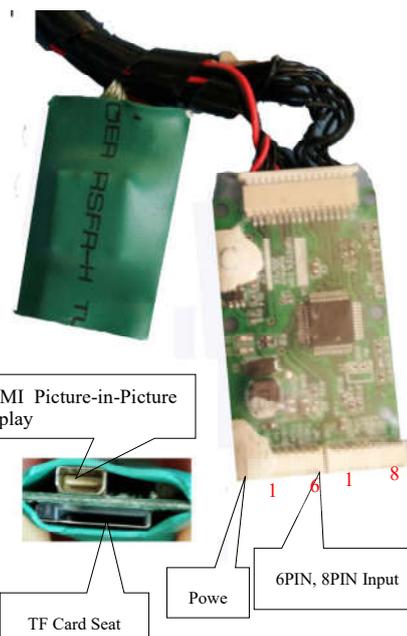
Output either CVBS or HDMI video; Record HD video at 1080P, 30fps in local TF card with H.264 compressing mode

Control Mode

Zoom, focus, record and pod control (pitch&yaw) based on PWM signals

Size & Weight

144mm×85mm×134mm; Weight: 591g



| Model | Seq. | PIN Definition |
|-------|------|----------------|
| 6PIN | 1 | GND |
| | 2 | 5V |
| | 3 | S/I BUS |
| | 4 | TXD4 |
| | 5 | RXD3 |
| | 6 | TXD3 |
| 8PIN | 1 | GND |
| | 2 | 5V |
| | 3 | MODE |
| | 4 | YAW |
| | 5 | PIC |
| | 6 | ZOOM |
| | 7 | FOCU |
| | 8 | REC |

| 30X Zoom Camera + Gimbal | | |
|------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|  | | |
| Model | TOP-330F | |
| Power Supply | 3S (11.1V) | |
| Consumption | Static 3.96W; Dynamic 5.4W | |
| Work staus | Pitch | Pitch: -90~+90 degree; |
| | Yaw Range | -150~+150 degree non-polar rotation |
| | Roll Range | Roll: -85~+85 degree |
| Gimbal | UAV Receiver | Normal receiver or SBUS |
| | Jitter Angle | Pitch and Roll: ±0.02 degree Yaw: ±0.03 degree |
| | Once-Click Restore | One-click restore to the initial position |
| | Gimbal Speed Adjustable | Use low speed control at big zoom status for high precision display. Use fast speed control at small zoom status |
| Camera | Control Mode | Support PWM control, serial port control, and digital transmission |
| | Sensor | 1/3 4M CMOS sensor |
| | Zoom | 30x HD optical zoom, f=4.5 to 135mm |
| | 3A | Support AWB, AE, AF |
| | Control Mode | Support OSD menu setting, PWM and UART control. |
| | Video Recording | HDMI 1080P 60FPS output,1080P 30FPS Local TF card record. |
| | Tracking (Pptional) | 1) Position offset update in 50Hz |
| | Tracking (Pptional) | 2 Offset output delay<15ms |
| | Tracking (Pptional) | 3) Min distinguish 5% |
| | Tracking (Pptional) | 4) Min SNR is 4 |
| Tracking (Pptional) | 5) Min target size 16*16 pixel | |
| Tracking (Pptional) | 6) Max target size 160*160 pixel | |
| Tracking (Pptional) | 7) Tracking speed 32 pixel/every frame | |
| Tracking (Pptional) | 8) Main square root value of target position noise<0.5 pixel | |
| Device Size | L144*W85*H134mm | |
| Working Condition | -10°C to +55°C / 20% to 80% RH | |
| Storage Condition | -20°C to +60°C / 20% to 95% RH | |
| Function | UAV aerial | |
| Weight | 591g | |

SMT10ST6

10X Dual Optical Zoom Camera + Gimbal

SMT10ST6 has a powerful system that combines 10x optical zoom camera, 640 thermal imaging system, and a high-precision 3-axis stabilizing gimbal. It adopts high-precision FOC encoder and the features of SMT10ST6 are high stability, small size, light weight, and low power consumption. The camera designed for working under visible light has a low-light-level sensor with effective pixels 4,000,000. And its thermal imaging system utilizes a 640 resolution non-guard sheet imaging detector imported from America. Besides, this newly developed SMT10ST6 supports picture-in-picture displaying function in HDMI videos and allows storing their data in local TF card. More powerfully, the video recording under visible light and infrared light can work simultaneously with multiple picture-in-picutre displaying modes.By changing these different modes,the zoom function will not be interrupted.

Function Description

Zoom

Visible Light: 5.1~51mm;
Thermal Imager: 8x,8.1x,...,etc.

Jitter Angle

Pitch and Roll: ±0.02°
Horizontal Direction: ±0.03°

Work Range

Pitch range: -90°to +90°
Roll range: -85°to +85°
Yaw range: -150°to +150°

Output Interface

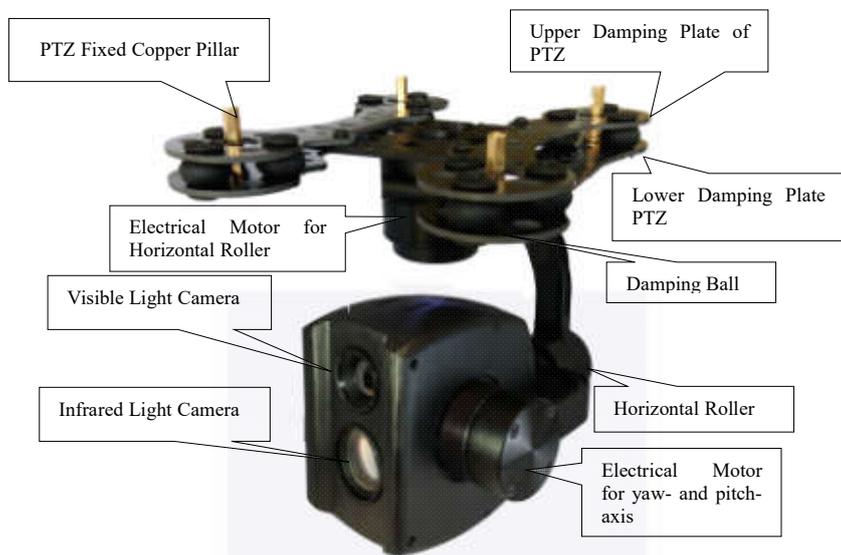
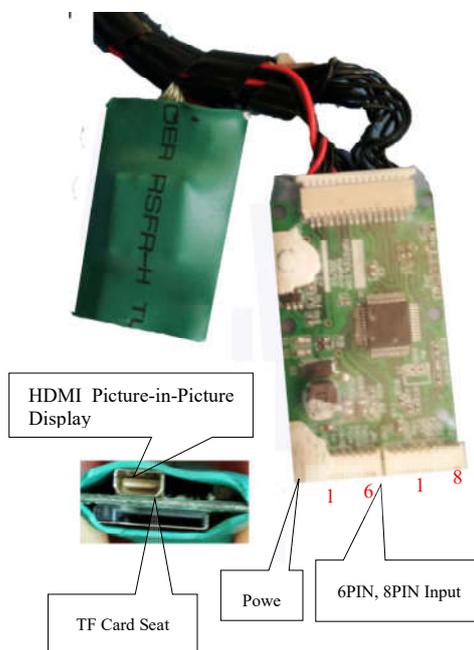
HDMI video at 1080P; Picture-in-picture display; Record HD video at 1080P, 30fps in local TF card with H.264 compressing mode; Diameter of thermal imaging lens 19mm; Support 640X480 resolution

Control Mode

Support VISCA, hitachi and PELCO-D protocol; Support PWM signal control of UAV

Size & Weight

88mm×62mm×100mm; Weight: 662g



| Model | Seq. | PIN Definition |
|-------|------|----------------|
| 6PIN | 1 | GND |
| | 2 | 5V |
| | 3 | S/I BUS |
| | 4 | TXD4 |
| | 5 | RXD3 |
| | 6 | TXD3 |
| 8PIN | 1 | GND |
| | 2 | 5V |
| | 3 | MODE |
| | 4 | YAW |
| | 5 | PIC |
| | 6 | ZOOM |
| | 7 | FOCU |
| | 8 | REC |

10X Dual Optical Zoom Camera + Gimbal



| | | |
|--------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------|
| Model | | SMT10ST6 |
| Power Supply | | 3S (11.1V) |
| Consumption | | Static condition 3.96W; Dynamic condition 5.4W |
| Work Staus | Pitch | Pitch: -90~+90 degree; |
| | Yaw Range | -150~+150 degree non-polar rotation |
| | Roll Range | Roll: -85~+85 degree |
| | Jitter Angle | Pitch and Roll: ±0.02 degree Yaw: ±0.03 degree |
| | One-Click Restore | One-click restore to the initial position |
| | Gimbal Speed Adjustable | Use low speed control at big zoom status for high precision display. Use fast speed control at small zoom status |
| | Control Mode | Support control by PWM signal and serial port command. Also support digital transmitter command. |
| Visible Light Camera | Sensor | 1/3 4M CMOS sensor |
| | Zoom | 10x HD optical zoom lens, f=5.1 to 51mm |
| | AF Time | Support quick auto focus, timelapse < 1 sec |
| | Video Output | Output HDMI HD video at 1080P and record video data in local TF card |
| | Control Mode | Support PWM control, serial port control and OSD menu setting |
| | Support Mode | 1080P 30fps, 720P 60fps |
| Infrared Light Camera | Resolution | 640*480 |
| | Pix Spacing | 17μm |
| | Type | Uncooled Micro Bolometer IR FPA Fabrication |
| | Wavelength | 8~14μm |
| | (NETD) Thermal Sensitivity | ≤65mk@30°C |
| | Brightness Contras | Adjustable |
| | Field Angle | 19mm Lens; Angle: 32.0x24.2 |
| | Measurement(Optional) | Center point, highest temperature, lowest temperature, temperature display, over-temperature alert |
| Device Size | | L88 x W62 x H100 mm |
| Work Condition | | -10°C to +45°C / 20% to 80% RH |
| Storage Condition | | -20°C to +60°C / 20% to 95% RH |
| Function | | Aerial photograph |
| Weight | | 662g (plus damping plate 730g) |