

TK Gen2 Kitalpha Series

Instant, Sharp Handheld Thermal Imaging Monocular



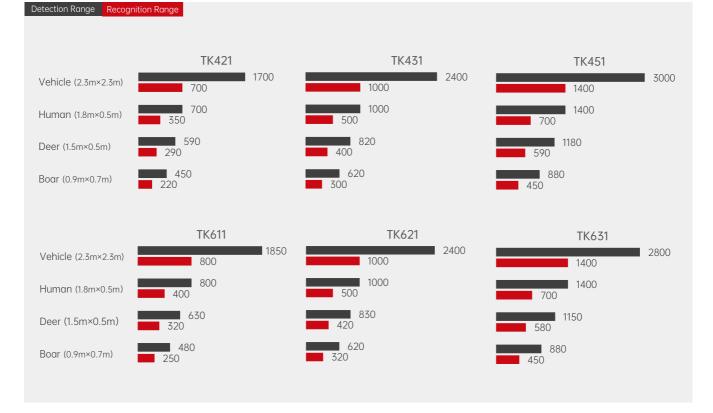
Equipped with Guide's new self-developed infrared detector and the patented image processing technology, the TK Gen2 Kitalpha Series captures sharp imaging and is packed with powerful features like image and video recording, smooth zoom, pseudo-color adjustment, approximate ranging and PIP. Personalized image observation is supported in different scene modes. The builtin laser indicator and illuminator facilitate itself to be operated in harsh environment.

- New self-developed infrared metal detector with high sensitivity
- PureIR adaptive filtering algorithm for sharp images in complex environments
- Built-in laser indicator to locate the targets up to 200m
- 0.4-inch 1280x960 display for comfortable observation
- Differential buttons for easy operation in total darkness
- The connected app via WiFi for remote control, live image and video transmission
- Designed to be operated under extreme environmental conditions with IP66 and 1meter drop test



- Night Hunting
- Search & Rescue
- Law Enforcement
- Night Patrol
- **Outdoor Sports**
- Personal Security

Focal length 25mm, F1.2 50mm, F1.2 19mm, F1.2 19mm, F1.0 25mm, F1.0 55mm, F1.0 Field of view 15.4° × 11.6° 11.1° × 8.3° 7.8° × 5.8° 22.9° × 17.2° 17.5° × 13.1° 12.5° × 9.4° Frome Rate 50Hz 50Hz 50Hz 50Hz 50Hz Zoom 1 - 4x 5.33 × 1.1x 1.5x 2.0x Digital zoom 1 - 4x 1 - 4x 1 - 4x 2.0x Usal effect 1 - 4x 1 - 4x 2.0x Digital zoom 1 - 4x 2.0x 1 - 4x 2.0x Visal fefect 1 - 4x 1 - 4x 2.0x 1 - 4x Retry type 2 built in 18.65 builteries (6000mAh) 2.0x 1 - 4x Battery type 2 built in 18.65 builteries (6000mAh) 2.5 hours 2.5 hours Usa dy type 2 built in 18.65 builteries (6000mAh) 2.5 hours 2.5 hours Usa dy type 0 Level S 2.5 hours 2.5 hours Usa dy type 0 At PLOS 2.5 hours 2.5 hours	Model	TK421	TK431	TK451	TK611	TK621	TK631
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Spectral range 8 to 14 µm NTD			100 x 200 17		Ox	610 × 100 10	
NETD <			400 × 500, 17 μm		14 um	640 × 480, 12 μm	
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guide				micro HDMI cable, le		, inner bag, shoulde	
	otanidara			gu	lide		





Guide Sensmart Tech Co., Ltd. Loeffelholzstrasse 20, Haus 12 Eingang Nord, 90441 Nuremberg, Germany Email: enquiry@guide-infrared.com *Technical parameters are subject to change without notice. For the latest information, please visit our website:



opeenreaciente	
Model	TK421
Infrared Detector	
IR Resolution	400×300@17μm
Spectral Range	8 ~ 14µm
NETD	≤50mk @ F1 25°C
Lens	
Focal Length	25mm F1.1
Focus	Manual focusing
FOV	15.4°×11.6°
Frame Rate	
Output Frame Frequency	50Hz
Zoom	
Optical Zoom	1.7x
Digital Zoom	1x—4x
Visual Effect	It's like viewing at a 22" screen at a distance of 1m
Power Supply	
Battery Type	Built-in 2*18650 batteries with a capacity of 6,000mah
Battery Operating Time	Battery continuous working time \geqslant 5 hours @ 25 °C (only observe the state)
Interface	
USB	Type C (USB 2.0 standard) interface, chargeable and data access
Video Interface	Micro HDMI
WIFI	Transmission of real-time video via WIFI, 2.4G frequency, distance up to 15m
External Extension	External display and external Bluetooth remote control
Mechanical Interface	1/4" tripod base port
Display	
Display	0.4", color LCOS screen
Resolution Ratio	1280×960
Monocular Eyepiece	Monocular, exit pupil distance \geq 10mm, adjustable diopter -4~ + 2
Eyepiece Zoom	13.8x
Video Output	HDMI
Button	
Button	Switch/Up/Menu/Down/Photo/video
Functions	
Smooth Zoom	Available
Screen Brightness Adjustment	10 levels
Detector Brightness Adjustment	10 levels
Detector Contrast Adjustment	10 levels
Image Enhancement	Available
Scene Mode Adjustment	Three modes: Default, Enhanced, Highlight
Scene Mode Adjustment Super Power Saving	Available
Scene Mode Adjustment Super Power Saving Images	Available Available
Scene Mode Adjustment Super Power Saving Images Videos	Available Available Available
Scene Mode Adjustment Super Power Saving Images Videos WIFI	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Compensation Mode	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Compensation Mode Rough Ranging	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown	 Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Available Adjustable shutdown time from 15min, 30min to 60min
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep	 Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings	 Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator	 Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight	 Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting Watermark Settings	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Available
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting Watermark Settings Picture-in-Picture	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting Watermark Settings Picture-in-Picture Restore to Default	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting Watermark Settings Picture-in-Picture Restore to Default Startup Time	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Available Image: Available Available Image: Available </th
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting Watermark Settings Picture-in-Picture Restore to Default Startup Time Internal Storage	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting Watermark Settings Picture-in-Picture Restore to Default Startup Time Internal Storage Environmental	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting Watermark Settings Picture-in-Picture Restore to Default Startup Time Internal Storage Environmental Working temperature	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Available Available Available Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB
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Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting Watermark Settings Picture-in-Picture Restore to Default Startup Time Internal Storage Environmental Working temperature Storage Temperature Humidity	Available Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Available Intervention Available Output Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available I5s (turn on to live image) @25°C I6GB -10°C~50°C -30°C~60°C 10%~95%, non-condensing
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting Watermark Settings Picture-in-Picture Restore to Default Startup Time Internal Storage Environmental Working temperature Storage Temperature Humidity Impact	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available Ifs (turn on to live image) @25°C 16GB -10°C~50°C -30°C~60°C 10%~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting Watermark Settings Picture-in-Picture Restore to Default Startup Time Internal Storage Environmental Working temperature Storage Temperature Humidity Impact	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available Is (turn on to live image) @25°C 16GB -10°C~50°C -30°C~60°C 10%~95%, non-condensing 30C/Ims semi-sinosoidal IEC60068-2-27 10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting Watermark Settings Picture-in-Picture Restore to Default Startup Time Internal Storage Environmental Working temperature Storage Temperature Storage Temperature Humidity Impact Vibration Drop Test Rating	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C-50°C -30°C-60°C 10%~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10Hz-150Hz-10Hz 0.15mm as per IEC60068-2-6 Im
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting Watermark Settings Picture-in-Picture Restore to Default Startup Time Internal Storage Environmental Working temperature Storage Temperature Storage Temperature Humidity Impact Vibration Drop Test Rating IP Rating	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available Is (turn on to live image) @25°C 16GB Io%~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10%~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6 Im IP66
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting Watermark Settings Picture-in-Picture Restore to Default Startup Time Internal Storage Environmental Working temperature Storage Temperature Storage Temperature Humidity Impact Vibration Drop Test Rating IP Rating Certifications	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C-50°C -30°C-60°C 10%~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10Hz-150Hz-10Hz 0.15mm as per IEC60068-2-6 Im
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting Watermark Settings Picture-in-Picture Restore to Default Startup Time Internal Storage Environmental Working temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Humidity Impact Vibration Drop Test Rating IP Rating Certifications Physical parameters	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C-50°C -30°C-60°C 00%/ms semi-sinosoidal IEC60068-2-27 10Hz-150Hz-10Hz 0.15mm as per IEC60068-2-6 Im IP66 IP66/FCC/CE/Rohs/EAC/un38.3
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting Watermark Settings Picture-in-Picture Restore to Default Startup Time Internal Storage Environmental Working temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Vibration Drop Test Rating IP Rating Certifications Physical parameters Weight	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 105c (turn on to live image) @25°C 16GB 10%~95%, non-condensing 306/Ims semi-sinosoidal IEC60068-2-27 10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6 Im IP66 IP66/IFCC/CE/Rohs/EAC/un38.3
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting Watermark Settings Picture-in-Picture Restore to Default Startup Time Internal Storage Environmental Working temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Humidity Impact Vibration Drop Test Rating IP Rating Certifications Physical parameters	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available -10°C~50°C -30°C~60°C 10%~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6 Im IP66 IP66/FCC/CE/Rohs/EAC/un38.3
Scene Mode Adjustment Super Power Saving Images Videos WIFI Color Palettes Hot Spot Tracking Working Indicator Charging Indicator Compensation Mode Rough Ranging Automatic Shutdown Auto Sleep Language Settings Laser indicator Floodlight System Time Setting Watermark Settings Picture-in-Picture Restore to Default Startup Time Internal Storage Environmental Working temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature Vibration Drop Test Rating IP Rating Certifications Physical parameters Weight	Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 105c (turn on to live image) @25°C 16GB 10%~95%, non-condensing 306/Ims semi-sinosoidal IEC60068-2-27 10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6 Im IP66 IP66/IFCC/CE/Rohs/EAC/un38.3

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Model	TK431
Infrared detector	
Resolution ratio	400×300@17µm
Wavelength range	8~14μm
NETD	≤50mk @ F1 25℃
Lens	
Focal length	35mm F1.2
Focusing mode	Manual focusing
Field angle	11.1×8.3
Frame rate	
Output frame frequenc	50Hz
Zoom multiple	
Optical zoom multiple	2.3x
Digital zoom multiple	1x4x
Visual effect	It's like viewing at a 22" screen at a distance of 1m
Power supply	
Battery	Built-in 2*18650 batteries with a capacity of 6,000mah
Working time	Battery continuous working time \geq 5 hours @ 25 °C (only observe the state)
Interface	Battery continuous working time > o nours @ 20 o (only obsorve the state)
USB	Type C (USB 2.0 standard) interface, chargeable and data access
Video interface	Micro HDMI
WIFI	Transmission of real-time video via WIFI, 2.4G frequency, distance up to 15m
External extension	External display and external Bluetooth remote control
Mechanical interface	1/4" tripod base port
Display screen Display screen	
Display screen Resolution ratio	0.4", color LCOS screen 1280×960
Eyepiece	Monocular, exit pupil distance ≥ 10mm, adjustable diopter -4~ + 2
Eyepiece zoom multiple	13.8x
Video output system	HDMI
Button	
Butt	Switch/Up/Menu/Down/Photo/video
Functions	
Smooth zoom in	Available
Adjust screen brightness	10 levels
Adjust detector brightness	10 levels
Adjust detector contrast	10 levels
Image enhancement	Available
Scene mode adjustment	Three modes: Default, Enhanced, Highlight
Super power saving mode	Available
Photo	Available
Video recording	Available
WIFI	Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m
	Transmission of real time video via with for remote control, 2.40 frequency band, distance up to form
Pseudo colors	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot
Pseudo colors	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot
Pseudo colors Hot spot tracking	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available
Pseudo colors Hot spot tracking Work indicator switch	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch
Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch
Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available
Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min
Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min
Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings	 White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French
Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min
Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight	 White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green
Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System	 White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch
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Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP	 White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close
Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default	 White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available
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Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit	 White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available
Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit Environmental parameters	 White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB
Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit Environmental parameters Working temperature	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Available Image: Available Available Switch Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Switch Switch Image: Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C~50°C
Pseudo colorsHot spot trackingWork indicator switchCharging indicator switchCompensation modeRough rangingAutomatic shutdownAuto sleepLanguage settingsLaser indicatorFloodlightSystemTime settingWatermark settingsPIPRestore to defaultStartup timeMemory capacitEnvironmental parametersWorking temperatureStorage temperature	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C~50°C -30°C~60°C
Pseudo colorsHot spot trackingWork indicator switchCharging indicator switchCompensation modeRough rangingAutomatic shutdownAuto sleepLanguage settingsLaser indicatorFloodlightSystemTime settingWatermark settingsPIPRestore to defaultStartup timeMemory capacitEnvironmental parametersWorking temperatureStorage temperatureHumidity	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C~50°C -30°C~60°C 10%~95%, non-condensing
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Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit Environmental parameters Working temperature Storage temperature Storage temperature Humidity Impact Vibration Drop	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C~50°C -30°C~60°C 10%~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6 Im
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Pseudo colorsHot spot trackingWork indicator switchCharging indicator switchCompensation modeRough rangingAutomatic shutdownAuto sleepLanguage settingsLaser indicatorFloodlightSystemTime settingWatermark settingsPIPRestore to defaultStartup timeMemory capacitEnvironmental parametersWorking temperatureStorage temperatureStorage temperatureStorage temperatureDropEncapsulationCertificatiPhysical parametersWeight	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 10°C~50°C -30°C~60°C 10%~95%, non-condensing 30G/Tms semi-sinosoidal IEC60068-2-27 10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6 1m IP66 IP66/FCC/CE/Rohs/EAC/un38.3
Pseudo colorsHot spot trackingWork indicator switchCharging indicator switchCompensation modeRough rangingAutomatic shutdownAuto sleepLanguage settingsLaser indicatorFloodlightSystemTime settingWatermark settingsPIPRestore to defaultStartup timeMemory capacitEnvironmental parametersWorking temperatureStorage temperatureStorage temperatureNibartionDropEncapsulationCertificatiPhysical parameters	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C~50°C -30°C~60°C 10%~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6 1m IP66 P66/FCC/CE/Rohs/EAC/un38.3
Pseudo colorsHot spot trackingWork indicator switchCharging indicator switchCompensation modeRough rangingAutomatic shutdownAuto sleepLanguage settingsLaser indicatorFloodlightSystemTime settingWatermark settingsPIPRestore to defaultStartup timeMemory capacitEnvironmental parametersWorking temperatureStorage temperatureHumidityImpactVibrationDropEncapsulationCertificatiPhysical parametersWeightSize	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available Iss (turn on to live image) @25°C 16GB -10°C~50°C -30°C~60°C 10%~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10Hz-150Hz-10Hz 0.15mm as per IEC60068-2-6 Im IP66 IP66/FCC/CE/Rohs/EAC/un38.3
Pseudo colorsHot spot trackingWork indicator switchCharging indicator switchCompensation modeRough rangingAutomatic shutdownAuto sleepLanguage settingsLaser indicatorFloodlightSystemTime settingWatermark settingsPIPRestore to defaultStartup timeMemory capacitEnvironmental parametersWorking temperatureStorage temperatureStorage temperatureStorage temperatureDropEncapsulationCertificatiPhysical parametersWeight	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 200m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -0°C~50°C -30°C~60°C 10%~95%, non-condensing 300/Ims semi-sinosoidal IEC60068-2-27 10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6 1m IP66 IP66/FCC/CE/Rohs/EAC/un38.3

opoonroationo	
Model	TK451
Infrared detector	
Resolution ratio	400×300@17μm
Wavelength range	8~14µm
	≤50mk @ F1 25°C
NETD	SUTIK (# F1 25 C
Lens	
Focal length	50mm F1.2
Focusing mode	Manual focusing
Field angle	7.8×5.8
Frame rate	
Output frame frequenc	50Hz
Zoom multiple	
Optical zoom multiple	3.3x
Digital zoom multiple	1x—4x
Visual effect	It's like viewing at a 22'' screen at a distance of 1m
Power supply	
• • •	Duilt is $2\pm10/10$ betteries with a conseint of (0.00000)
Battery	Built-in 2*18650 batteries with a capacity of 6,000mah
Working time	Battery continuous working time \geq 5 hours @ 25 °C (only observe the state)
Interface	
USB	Type C (USB 2.0 standard) interface, chargeable and data access
Video interface	Micro HDMI
WIFI	
	Transmission of real-time video via WIFI, 2.4G frequency, distance up to 15m
External extension	External display and external Bluetooth remote control
Mechanical interface	1/4" tripod base port
Display screen	
Display screen	0.4", color LCOS screen
Resolution ratio	1280×960
Eyepiece	Monocular, exit pupil distance ≥ 10mm, adjustable diopter -4~ + 2
Eyepiece zoom multiple	13.8x
Video output system	HDMI
Button	
Butt	Switch/Up/Menu/Down/Photo/video
Functions	
Smooth zoom in	Available
	10 levels
Adjust screen brightness	
Adjust detector brightness	10 levels
Adjust detector contrast	10 levels
Image enhancement	Available
Scene mode adjustment	Three modes: Default, Enhanced, Highlight
Super nower saving mode	Available
Super power saving mode	Available
Photo	Available
Photo Video recording	Available Available
Photo	Available
Photo Video recording	Available Available
Photo Video recording WIFI	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m
Photo Video recording WIFI Pseudo colors Hot spot tracking	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available
Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch
Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch
Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation
Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available
Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation
Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available
Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min
Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French
Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 201m, Red/Yellow/Green
Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French
Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 201m, Red/Yellow/Green Switch
Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 201m, Red/Yellow/Green Switch
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Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chenses/English/Russian/German/French Up to 201m, Red/Yellow/Green Switch Available Available Available Adjustable shutdown time from 5 min, 10 min to 15 min Chenses/English/Russian/German/French Up to 201m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available
Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit Environmental parameters	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 201m, Red/Yellow/Green Switch Available Available Image: Available Available Available Chinese/English/Russian/German/French Up to 201m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB
Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 201m, Red/Yellow/Green Switch Available Available Image: Available Available Image: Available Chinese/English/Russian/German/French Up to 201m, Red/Yellow/Green Switch Available Image: Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C
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Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit Environmental parameters Working temperature Storage temperature Humidity Impact	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 201m, Red/Yellow/Green Switch Available Available Image: Additional context and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -0°C~50°C -3°C~60°C -3°C~60°C 10%~95%, non-condensing 30G/1ms semi-sinosoidal IEC60068-2-27
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Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit Environmental parameters Working temperature Storage temperature Humidity Impact Vibration Drop	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 201m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C~50°C -30°C-60°C 10%~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6 Im
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Photo Video recording WiFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PiP Restore to default Startup time Memory capacit Environmental parameters Working temperature Storage temperature Storage temperature Storage temperature Humidity Impact Vibration Drop Encapsulation Certificati Physical parameters	Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 201m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 16GB -10%-50%C -30%C-60%C 10%-95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10Hz-150Hz-10Hz 0.15mm as per IEC60068-2-6 Im IP66 IP66/FCC/CE/Rohs/EAC/un38.3

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Model	TK611
Infrared detector	
Resolution ratio	640×480@12µm
Wavelength range	8~14μm
NETD	≤50mk @ F1 25℃
Lens	
Focal length	19mm F1.0
Focusing mode	Manual focusing
Field angle	22.9×17.2
Frame rate	
Output frame frequenc	50Hz
Zoom multiple	5012
Optical zoom multiple	1.1x
Digital zoom multiple	1.1x 1x—8x
Visual effect	
	It's like viewing at a 22'' screen at a distance of 1m
Power supply	
Battery	Built-in 2*18650 batteries with a capacity of 6,000mah
Working time	Battery continuous working time \geqslant 4.5 hours @ 25 °C (only observe the state)
Interface	
USB	Type C (USB 2.0 standard) interface, chargeable and data access
Video interface	Micro HDMI
WIFI	Transmission of real-time video via WIFI, 2.4G frequency, distance up to 15m
External extension	External display and external Bluetooth remote control
Mechanical interface	1/4" tripod base port
Display screen	
Display screen	0.4", color LCOS screen
Resolution Ratio	1280×960
Eyepiece	Monocular, exit pupil distance ≥ 10mm, adjustable diopter -4~ + 2
Eyepiece zoom multiple	13.8x
Video output system	HDMI
Button	
Butt	Switch/Up/Menu/Down/Photo/video
Functions	emterjophienejoomin notojnaco
Smooth zoom in	Available
Adjust screen brightness	10 levels
Adjust detector brightness	10 levels
Adjust detector contrast	10 lovels
Adjust detector contrast	10 levels
Image enhancement	Available
Image enhancement Scene mode adjustment	Available Three modes: Default, Enhanced, Highlight
Image enhancement Scene mode adjustment Super power saving mode	Available Three modes: Default, Enhanced, Highlight Available
Image enhancement Scene mode adjustment Super power saving mode Photo	Available Three modes: Default, Enhanced, Highlight Available Available
Image enhancement Scene mode adjustment Super power saving mode Photo Video recording	Available Three modes: Default, Enhanced, Highlight Available Available Available
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Image enhancement Scene mode adjustment Super power saving mode Photo Video recording WIFI Pseudo colors	Available Three modes: Default, Enhanced, Highlight Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot
Image enhancement Scene mode adjustment Super power saving mode Photo Video recording WIFI Pseudo colors Hot spot tracking	Available Three modes: Default, Enhanced, Highlight Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available
Image enhancement Scene mode adjustment Super power saving mode Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch	Available Three modes: Default, Enhanced, Highlight Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch
Image enhancement Scene mode adjustment Super power saving mode Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch	Available Three modes: Default, Enhanced, Highlight Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch
Image enhancement Scene mode adjustment Super power saving mode Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode	Available Three modes: Default, Enhanced, Highlight Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation
Image enhancement Scene mode adjustment Super power saving mode Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging	Available Three modes: Default, Enhanced, Highlight Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available
Image enhancement Scene mode adjustment Super power saving mode Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown	Available Three modes: Default, Enhanced, Highlight Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min
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Image enhancement Scene mode adjustment Super power saving mode Photo Video recording WIFI Pseudo colors Hot spot tracking Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator	 Available Three modes: Default, Enhanced, Highlight Available Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 201m, Red/Yellow/Green
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Image enhancementScene mode adjustmentSuper power saving modePhotoVideo recordingWIFIPseudo colorsHot spot trackingWork indicator switchCharging indicator switchCompensation modeRough rangingAutomatic shutdownAuto sleepLanguage settingsLaser indicatorFloodlightSystemTime settingWatermark settingsPIPRestore to defaultStartup timeMemory capacitEnvironmental parametersWorking temperatureStorage temperatureHumidityImpactVibrationDropEncapsulationCertificatiPhysical parametersWeight	Available Three modes: Default, Enhanced, Highlight Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 201m, Red/Yellow/Green Switch Available Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 10% ~50% 15s (turn on to live image) @25%C 16GB -10% ~50% 00/1ms semi-sinosoidal IEC60068-2-27 10% ~95%, non-condensing 30G/1ms semi-sinosoidal IEC60068-2-6 1m IP66
Image enhancementScene mode adjustmentSuper power saving modePhotoVideo recordingWIFIPseudo colorsHot spot trackingWork indicator switchCharging indicator switchCompensation modeRough rangingAutomatic shutdownAuto sleepLanguage settingsLaser indicatorFloodlightSystemTime settingWatermark settingsPIPRestore to defaultStartup timeMemory capacitEnvironmental parametersWorking temperatureStorage temperatureHumidityImpactVibrationDropEncapsulationCertificatiPhysical parameters	Available Three modes: Default, Enhanced, Highlight Available Available Available Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot Available Switch Automatic compensation, shutter compensation and scene compensation Available shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 201m, Red/Vellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C-50°C -30°C-60°C 10%~95%, non-condensing 30G/Irms semi-sinosoidal IEC60068-2-27 10Hz-150Hz-10Hz 0.15mm as per IEC60068-2-6 Im IP66 IP66/FCC/CE/Rohs/EAC/un38.3
Image enhancementScene mode adjustmentSuper power saving modePhotoVideo recordingWIFIPseudo colorsHot spot trackingWork indicator switchCharging indicator switchCompensation modeRough rangingAutomatic shutdownAuto sleepLanguage settingsLaser indicatorFloodlightSystemTime settingWatermark settingsPIPRestore to defaultStartup timeMemory capacitEnvironmental parametersWorking temperatureStorage temperatureHumidityImpactVibrationDropEncapsulationCertificatiPhysical parametersWeight	Available Three modes: Default, Enhanced, Highlight Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 201m, Red/Yellow/Green Switch Available Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 10% ~50% 16GB -10% ~50% 30C/c60°C 10% ~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10Hz ~150Hz~10Hz 0.15mm as per IEC60068-2-6 1m IP66 <

Model	ТК621
Infrared detector	(40,400,012,
Resolution ratio Wavelength range	640×480@12μm 8 ~ 14μm
NETD	o ~ 14μ11 ≪50mk @ F1 25℃
Lens	
Focal length	25mm F1.0
Focusing mode	Manual focusing
Field angle	17.5×13.1
Frame rate	
Output frame frequenc	50Hz
Zoom multiple	
Optical zoom multiple	1.5x
Digital zoom multiple Visual effect	1x—8x It's like viewing at a 22'' screen at a distance of 1m
Power supply	it's like viewing at a 22 screen at a distance of im
Battery	Built-in 2*18650 batteries with a capacity of 6,000mah
Working time	Battery continuous working time ≥ 4.5 hours @ 25 °C (only observe the state)
Interface	
USB	Type C (USB 2.0 standard) interface, chargeable and data access
Video interface	Micro HDMI
WIFI	Transmission of real-time video via WIFI, 2.4G frequency, distance up to 15m
External extension	External display and external Bluetooth remote control
Mechanical interface	1/4" tripod base port
Display screen	
Display screen	0.4", color LCOS screen 1280×960
Resolution Ratio	
Eyepiece Eyepiece zoom multiple	Monocular, exit pupil distance ≥ 10mm, adjustable diopter -4~ + 2 13.8x
Video output system	HDMI
Button	
Butt	Switch/Up/menu/Down/Photo/video
Functions	
Smooth zoom in	Available
Adjust screen brightness	10 levels
Adjust detector brightness	10 levels
Adjust detector contrast	10 levels
Image enhancement	Available
Scene mode adjustment	Three modes: Default, Enhanced, Highlight
Super power saving mode	Available Available
Photo Video recording	Available
WIFI	Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m
Pseudo colors	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot
Hot spot tracking	Available
Work indicator switch	Switch
Charging indicator switch	Switch
Compensation mode	Automatic compensation, shutter compensation and scene compensation
Rough ranging	Available
Automatic shutdown	Adjustable shutdown time from 15min, 30min to 60min
Auto sleep	Adjustable shutdown time from 5 min, 10 min to 15 min
Language settings Laser indicator	Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green
Floodlight	Switch
System	
Time setting	Available
Watermark settings	Closure, and setting of date or date and location
PIP	Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close
Restore to default	Available
Startup time	15s (turn on to live image) @25°C
Memory capacit	16GB
Environmental parameters	1920 5000
Working temperature Storage temperature	-10°C~50°C -30°C~60°C
Humidity	10%~95%, non-condensing
Impact	30G/1ms semi-sinosoidal IEC60068-2-27
Vibration	10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6
Drop	1m
Encapsulation	IP66
Certificati	IP66/FCC/CE/Rohs/EAC/un38.3
Physical parameters	
Weight	≤490g
Size	192*65*71mm
Standard	Equipped with a power adapter, a USB cable (Type C), a micro HDMI cable, a lens cover, a wrist strap, an inner bag, a shoulder strap, a Quick User Guide
	shoulds study, a quick oser oulde

opoolinoationo	
Model	TK631
Infrared detector	
Resolution ratio	640×480@12µm
Wavelength range	8~14μm
NETD	≤50mk @ F1 25°C
Lens	
Focal length	35mm F1.0
Focusing mode	Manual focusing
Field angle	12.5×9.4
Frame rate	12.547.4
Output frame frequenc	50Hz
Zoom multiple	3012
Optical zoom multiple	2.0x
Digital zoom multiple	1x8x
Visual effect	
	It's like viewing at a 22'' screen at a distance of 1m
Power supply	
Battery	Built-in 2*18650 batteries with a capacity of 6,000mah
Working time	Battery continuous working time \geqslant 4.5 hours @ 25 °C (only observe the state)
Interface	
USB	Type C (USB 2.0 standard) interface, chargeable and data access
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External extension	External display and external Bluetooth remote control
Mechanical interface	1/4" tripod base port
Display screen	
Display screen	0.4", color LCOS screen
Resolution Ratio	1280×960
Eyepiece	Monocular, exit pupil distance ≥ 10mm, adjustable diopter -4~ + 2
Eyepiece zoom multiple	13.8x
Video output system	HDMI
Button	
Butt	Switch/Up/Menu/Down/Photo/video
Functions	
Smooth zoom in	Available
Adjust screen brightness	10 levels
Adjust detector brightness	10 levels
Adjust detector contrast	10 levels
Image enhancement	Available
Scene mode adjustment	Three modes: Default, Enhanced, Highlight
Super power saving mode	Available
Photo	Available
Video recording	Available
WIFI	Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m
Pseudo colors	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot
Hot spot tracking	Available
Hot spot tracking Work indicator switch	
	Available
Work indicator switch	Available Switch
Work indicator switch Charging indicator switch	Available Switch Switch
Work indicator switch Charging indicator switch Compensation mode	Available Switch Switch Automatic compensation, shutter compensation and scene compensation
Work indicator switch Charging indicator switch Compensation mode Rough ranging	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit Environmental parameters	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit Environmental parameters Working temperature	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PiP Restore to default Startup time Memory capacit Environmental parameters Working temperature	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C~50°C -30°C~60°C
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit Environmental parameters Working temperature Storage temperature Humidity	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C~50°C -30°C~60°C 10%~95%, non-condensing
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit Environmental parameters Working temperature Storage temperature Humidity Impact	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C~50°C -30°C~60°C 10%~95%, non-condensing 30G/1ms semi-sinosoidal IEC60068-2-27
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit Environmental parameters Working temperature Storage temperature Storage temperature Humidity Impact Vibration Drop	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch Available Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C~50°C -50°C -50°C -50°C 10%~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit Environmental parameters Working temperature Storage temperature Humidity Impact	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C-50°C -30°C-60°C 10% ~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10Hz-150Hz-10Hz 0.15mm as per IEC60068-2-6 Im
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit Environmental parameters Working temperature Storage temperature Storage temperature Storage temperature Umidity Impact Vibration Drop Encapsulation Certificati	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C~50°C -30°C~60°C 10%~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6 Im IP66
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit Environmental parameters Working temperature Storage temperature Storage temperature Humidity Impact Vibration Drop Encapsulation Certificati Physical parameters	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C~50°C -30°C~60°C 10%~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6 Im IP66
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit Environmental parameters Working temperature Storage temperature Storage temperature Storage temperature Umidity Impact Vibration Drop Encapsulation Certificati	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -0°C~60°C -30°C~60°C -30°C~60°C 10%~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6 1m IP66 IP66 IP66 IP66
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit Environmental parameters Working temperature Storage temperature Storage temperature Humidity Impact Vibration Drop Encapsulation Certificati Physical parameters Weight Size	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C~50°C -30°C-60°C 10%~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6 1m IP66 IP66/IFCC/CE/Rohs/EAC/un38.3
Work indicator switch Charging indicator switch Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System Time setting Watermark settings PIP Restore to default Startup time Memory capacit Environmental parameters Working temperature Storage temperature Storage temperature Storage temperature Humidity Impact Vibration Drop Encapsulation Certificati Physical parameters	Available Switch Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French Up to 202m, Red/Yellow/Green Switch Available Closure, and setting of date or date and location Capable to swipe left and up, or pause in the middle and swipe up; or swipe right and up to close Available 15s (turn on to live image) @25°C 16GB -10°C~50°C -30°C~60°C 10%~95%, non-condensing 30G/Ims semi-sinosoidal IEC60068-2-27 10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6 Im IP66 IP66/FCC/CE/Rohs/EAC/un38.3