

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

Specifications

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Model	TK451
Infrared detector	
Resolution ratio	400×300@17μm
	8~14μm
Wavelength range	
NETD	≤50mk @ 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	00/12
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	
Battery	Built-in 2*18650 batteries with a capacity of 6,000mah
Working 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 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
Work indicator switch	Switch
Charging indicator switch	
	Switch
Compensation mode	Switch Automatic compensation, shutter compensation and scene compensation
Compensation mode Rough ranging	Switch Automatic compensation, shutter compensation and scene compensation Available
Compensation mode Rough ranging Automatic shutdown	Switch Automatic compensation, shutter compensation and scene compensation Available Adjustable shutdown time from 15min, 30min to 60min
Compensation mode Rough ranging Automatic shutdown Auto sleep	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
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Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator	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
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Compensation mode Rough ranging Automatic shutdown Auto sleep Language settings Laser indicator Floodlight System	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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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	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
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