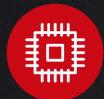


TK Gen2 Kitalpha Series

Instant, Sharp Handheld Thermal Imaging Monocular



Upgraded Detector



Laser Indicator



Illuminator



Introduce

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 built-in laser indicator and illuminator facilitate itself to be operated in harsh environment.



Features and Benefits

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

Application

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

Specifications

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 ≥ 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 ≥ 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
Super Power Saving	Available
Images	Available
Videos	Available
WIFI	Transmission of real-time video via WIFI for remote control, 2.4G frequency band, distance up to 15m
Color Palettes	White Hot/ Black Hot/ Iron Red/ Blue Hot/ Green Hot/ Adjustable Red Hot
Hot Spot Tracking	Available
Working Indicator	Switch
Charging Indicator	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	Chinese/English/Russian/German/French
Laser indicator	Up to 200m, Red/Yellow/Green
Floodlight	Switch
System	
Time Setting	Available
Watermark Settings	Closure, and setting of date or date and location
Picture-in-Picture	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
Internal Storage	16GB
Environmental	
Working temperature	-10°C~50°C
Storage Temperature	-30°C~60°C
Humidity	10%~95%, non-condensing
Impact	30G/1ms semi-sinoidal IEC60068-2-27
Vibration	10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6
Drop Test Rating	1m
IP Rating	IP66
Certifications	IP66/FCC/CE/Rohs/EAC/un38.3
Physical parameters	
Weight	≤470g
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