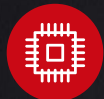


TK Gen2 Kitalpha Series

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	TK431	TK451	TK611	TK621	TK631
Infrared Detector						
Detector type	VOx					
Detector resolution and pitch	400 × 300, 17 μm			640 × 480, 12 μm		
Spectral range	8 to 14 μm					
NETD	≤30mk @ F1 25°C					
Lens						
Focal length	25mm; F1.1	35mm; F1.2	50mm; F1.2	19mm; F1.0	25mm; F1.0	35mm; F1.0
Focus	Manual					
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°
Frame Rate						
Output frame frequency	50Hz					
Zoom						
Optical zoom	1.7x	2.3x	3.3x	1.1x	1.5x	2.0x
Digital zoom	1 - 4x			1 - 8x		
Visual effect	It's like viewing at a 22" screen at 1 meter					
Power						
Battery type	2 built-in 18650 batteries (6000mAh)					
Battery life	≥ 5 hours			≥ 4.5 hours		
Interface						
USB	Type C (USB 2.0 standard), supporting power supply and data access					
Video interface	micro HDMI					
External expansion	External Display					
Mechanical interface	UNC ¼"-20 (Tripod mounting), Picatinny					
Display						
Display type	0.4" FLCOS					
Resolution	1280 × 960					
Eyepiece	Monocular, exit pupil distance ≥10 mm, diopter adjustment: -4 to + 2					
Eyepiece zoom	13.8x					
Video output	Digital video					
Button						
Button functions	Power / 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 modes	Enhanced, Highlight and Natural					
Ultra power saving mode	Available					
Image capturing	Available					
Video recording	Available					
WIFI	Transmission of real-time video via WIFI for remote control in the 2.4G frequency band and within 15 meters					
Color palettes	Black Hot, White Hot, Adjustable Red Hot, Iron Red, Blue Hot, Green Hot					
Hot spot tracking	Available					
Working indicator	On/Off					
Charging indicator	On/Off					
Compensation modes	Automatic, shutter and scene compensation					
Rough ranging	Available					
Automatic shutdown	Closed, 15, 30 or 60 mins					
Automatic sleep	Closed, 5, 10, or 15 mins					
Language settings	Chinese / English / Russian / German / French					
Laser indicating	Up to 200 meters					
System						
Time setting	Available					
Watermark settings	Closed, setting of date or date and location					
PIP	Upper left, Upper middle, Upper right, Closed					
Restore to default	Available					
Start up	2 s					
Memory capacity	16 GB					
Environmental						
Operating temperature range	-10 °C to 50 °C					
Storage temperature range	-30 °C to 60 °C					
Humidity	10 % to 95 % non-condensing					
Shock	30 G at 11 ms half sine pulse (as per IEC60068-2-27)					
Vibration	10 Hz - 150 Hz - 10 Hz 0.15 mm (as per IEC60068-2-6)					
Drop	1 m					
Encapsulation	IP66					
Certification	IP66, FCC, CE, RoHS, EAC, un38.3					
Physical						
Weight	≤470 g	≤485 g	≤535 g	≤490 g	≤560 g	≤560 g
Size (L × W × H)	192 × 65 × 71 mm		214 × 65 × 71 mm	192 × 65 × 71 mm		214 × 65 × 71 mm
Standard	Power adapter, USB cable (Type C), micro HDMI cable, lens cap, wrist strap, inner bag, shoulder strap, quick start guide					

Specifications

