Specifications

Model	TK421	TK431	TK451	TK611	TK621	TK631
Infrared Detector IR Resolution		400×300@17μm			640×480@12μm	
Spectral Range			8 ~ 14	ŀμm	0401400@12μ11	
NETD	≤50mk @ F1 25°C					
Lens	05 51.1	75 51.0	F0 F1 0	10 510	05 510	75 51.0
Focal Length Focus	25mm F1.1	35mm F1.2	50mm F1.2 Manual f	19mm F1.0	25mm F1.0	35mm F1.0
FOV	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	1.77	1x—4x	3.37	1.17	1x—8x	2.07
Visual Effect	It's like viewing at a 22" screen at a distance of 1m					
Power Supply	Duilt in 2×10/E0 batteries with a capacity of 6000mgb					
Battery Type	Built-in 2*18650 batteries with a capacity of 6,000mah Battery continuous working time ≥ 5 hours @ 25 °C Battery continuous working time ≥ 4.5 hours @ 25 °C					
Battery Operating Time		nly observe the stat			only observe the stat	
Interface USB		Turne C (LICE 3	O atom dayal interfer	a a ala ayaa a ala la ay	nd data access	
Video Interface	Type C (USB 2.0 standard) interface, chargeable and data access 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 Display	1/4" tripod base port					
Display			0.4", color L0	COS screen		
Resolution Ratio	1280×960					
Monocular Eyepiece	Monocular, exit pupil distance ≥ 10mm, adjustable diopter -4~ + 2					
Eyepiece Zoom Video Output	13.8x HDMI					
Button	TIDWII					
Button	Switch/Up/Menu/Down/Photo/video					
Functions Smooth Zoom			Availa	able		
Screen Brightness Adjustment	Available 10 levels					
Detector Brightness Adjustment	10 levels					
Detector Contrast Adjustment Image Enhancement	10 levels Available					
Scene Mode Adjustment	Three modes: Default, Enhanced, Highlight					
Super Power Saving	Available					
Images	Available Available					
Videos WIFI	Available 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 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 Language Settings	Adjustable shutdown time from 5 min, 10 min to 15 min Chinese/English/Russian/German/French					
Laser indicator	Up to 200m, Red/Yellow/Green					
Floodlight	Switch					
System			Associa	ulo I o		
Time Setting Watermark Settings		Closu	Availare, and setting of do		ocation	
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 Internal Storage	15s (turn on to live image) @25℃ 16GB					
Environmental			100			
Working temperature			-10°C~			
Storage Temperature Humidity	-30°C~60°C 10%~95%, non-condensing					
Impact	30G/1ms semi-sinosoidal IEC60068-2-27					
Vibration	10Hz~150Hz~10Hz 0.15mm as per IEC60068-2-6					
Drop Test Rating	1m					
IP Rating Certifications	IP66 IP66/FCC/CE/Rohs/EAC/un38.3					
Physical parameters	IP66/FCG/CE/KONS/EAC/UN58.5					
weight	≤470g	≤485g	≤535g		490g	≤560g
Size		*71mm	214*65*71mm		55*71mm le, a lens cover; a wri	214*65*71mm
Standard	Equipped Willia		ag, a shou l der strap,			scourap, all liller