

Specifications

Product model	TA421	TA431	TA451	TA621	TA631	TA651
Infrared detector						
Detector type	VOx					
Detector resolution	384 × 288, 17 μm			640 × 480, 12 μm		
Spectral range	8 to 14 μm					
NETD	≤40 mk					
Frame rate	50 Hz					
Lens						
Focal length	25 mm; F1.1	35 mm; F1.2	50 mm; F1.2	25 mm; F1.0	35 mm; F1.0	50 mm; F1.0
Focus	Manual					
Field of angle	14.9°×11.2°	10.7°×8°	7.5°×5.6°	17.5°×13.1°	12.5°×9.4°	8.8°×6.6°
Optical zoom	1x					
Digital zoom	1x, 2x and 4x			1x, 2x, 4x and 8x		
Power						
Battery type	Single 18650 battery					
Battery life	≥ 7 hours					
Interface						
Video interface	LEMO					
External expansion	External Display, Bluetooth remote control and Picatinny					
Mechanical interface	Picatinny					
Display						
Display type	0.39" OLED			0.5" OLED		
Resolution	1024 × 768			800 × 600		
Eyeiece	Exit pupil distance ≥ 10 mm, Exit pupil diameter ≥ 20 mm			Exit pupil distance ≥ 20 mm, Exit pupil diameter ≥ 20 mm		
Video output	Analog video					
Functions						
Scene modes	Enhanced, Highlight and Natural					
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot					
Hot spot tracking	Available					
Compensation modes	Shutter and scene compensation					
System						
Start up	10 s					
Environmental						
Operating temperature range	-30°C to 50°C					
Storage temperature range	-45°C to 70°C					
Humidity	10 % to 95 % non-condensing					
Shock	500 G at 1 ms half sine pulse (as per IEC60068-2-27)					
Vibration	5Hz~200Hz~5Hz 0.15mm (as per IEC60068-2-6)					
Encapsulation	IP67					
Certification	IP67, FCC, CE, RoHS, EAC, WEEE, un38.3, Certification for Air transport					
Physical						
Weight	≤475 g	≤490 g	≤550 g	≤540 g	≤550 g	≤660 g
Size (L × W × H)	153×57×79 mm	157×58×79 mm	178×62×83 mm	161×57×79 mm	161×60×79 mm	177×66×87 mm
Standard	Device×1, Eye mask×1, Carry bag×1, 7-pin LEMO to USB cable×1, Battery charger×1, 18650 battery×1, Quick start guide×1, Warranty card×1					
Optional	External eyepiece, Adapter ring, Picatinny rail, Bluetooth remote control (with hook-and-loop fastener), 7-pin LEMO to USB and AV cable					