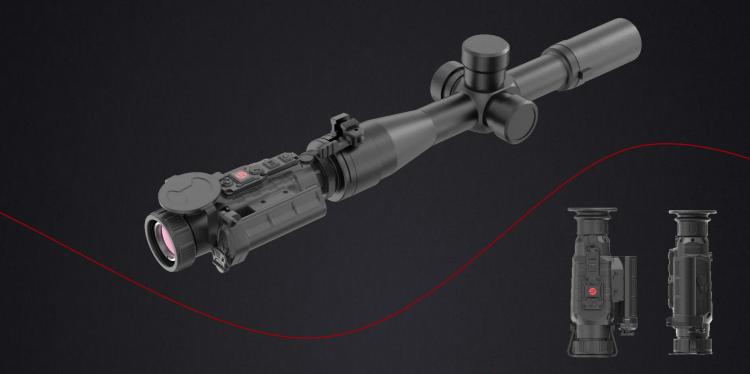


TA Gen2 Aquila Series Clip-on Thermal Imaging Attachment

Clearer and Longer, Capturing What You See



Introduce

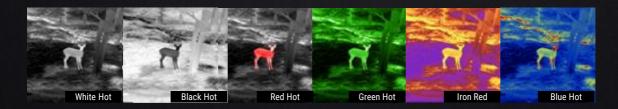
Based on the self-developed 17 μ m and 12 μ m thermal detectors with 400×300 and 640x480 pixel resolutions repsectively, the TDE-Tech, PureIR algorithm, and HD OLED displays, the TA Gen2 Series offers sharp and detailed images while retaining the accuracy of the day scope. Suitable for scopes with different calibers from 40 mm to 70 mm, the TA Gen2 makes an thermal upgrade that transforms day scopes into potent thermal imaging aiming systems for 7 hours of non-stop operation in harsh conditions.

Features and Benefits

- 400×300/640x480 IR resolution for clear images
- o TDE-Tech and PureIR algorithm for detail enhancement of targets
- Fast and easy replaceable 18650 battery for 7 hours of operation
- One-step installation and no re-zeroing
- Wireless remote control for easy operation
- IP67 dustproof and waterproof rated
- o 6 color palettes for tasks in changing conditions
- A wide range of operating temperatures (-30 to 50°C)

Application

- Outdoor Adventure
- Search & Rescue
- Marine Navigation
- Law Enforcement



Specifications

Model	TA421	TA431	TA451	TA621	TA631	TA651	
Infrared detector							
Detector type	VOx						
Detector resolution and pitch	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			
Eyepiece	Exit pupil distance ≥ 10 mm, Exit pupil diameter ≥ 20 mm Exit pupil distance ≥ 20 mm, Exit pupil diameter ≥ 20 mm					iameter ≥ 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						

Cover ring adapter				
A	Weight 70g, Compatible with 38/40/42/44/46mm			
В	Weight 80g, Compatible with 48/50/52/54mm			
С	Weight 90g, Compatible with 56/58/60/62/64mm			

Specifications



