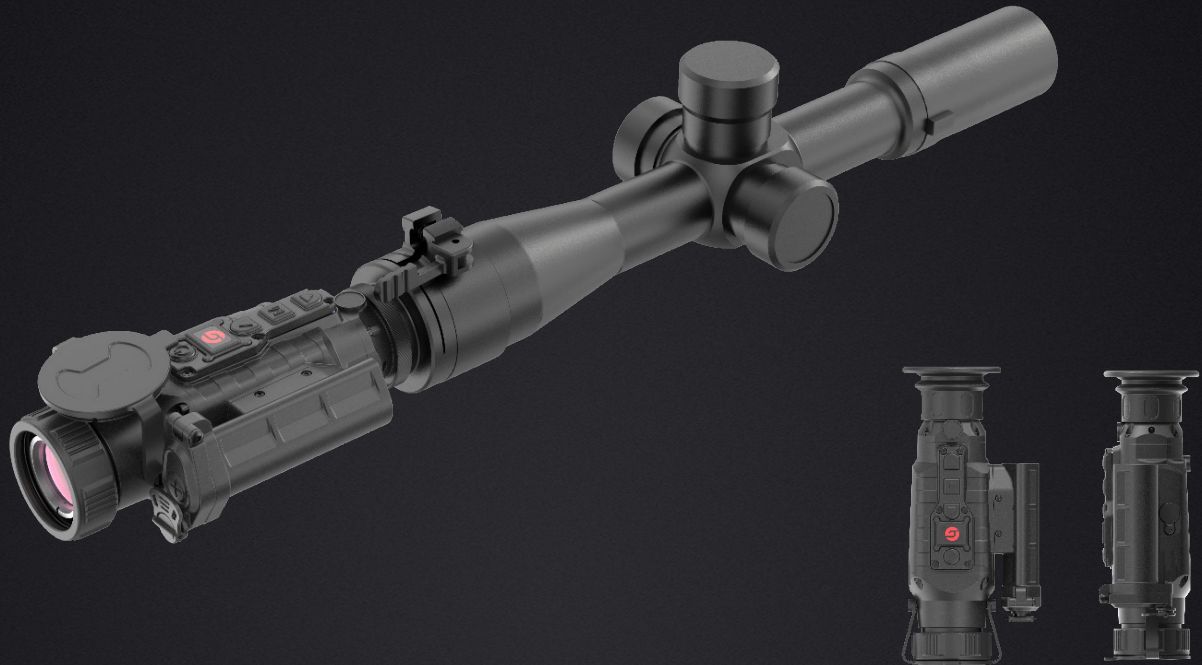


TA Gen2 series

Clip-on
Thermal Imaging Attachment

GO THERMAL
INNOVATIVE SENSING SOLUTIONS

Clearer and Longer, Capturing What You See



Introduction

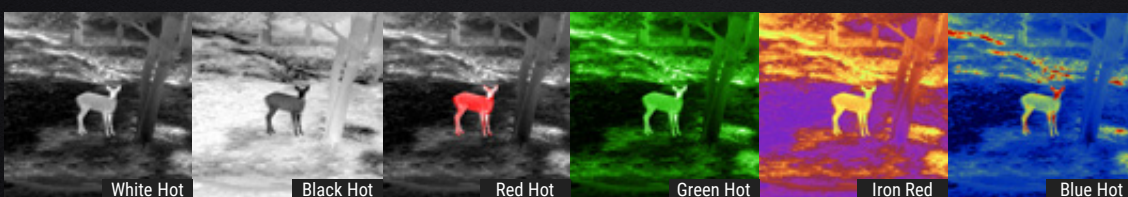
Based on the self-developed 17 μm and 12 μm thermal detectors with 400x300 and 640x480 pixel resolutions respectively, the TDE-Tech, PureIR algorithm, and HD OLED displays, the TA Gen2 Series offers sharp and detailed images while retaining the accuracy of the day scope. Suitable for scopes with different 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

- 400x300/640x480 IR resolution for clear images
- 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
- 6 color palettes for tasks in changing conditions
- A wide range of operating temperatures (-30 to 50°C)

Applications

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



Specifications

Product model	TA421	TA431	TA451	TA621	TA631	TA651
Infrared detector						
Detector type	VOx, 8 to 14 μ m					
Detector resolution	384 \times 288, 17 μ m			640 \times 480, 12 μ m		
NETD	\leq 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
Field of angle	14.9 $^{\circ}$ \times 11.2 $^{\circ}$	10.7 $^{\circ}$ \times 8 $^{\circ}$	7.5 $^{\circ}$ \times 5.6 $^{\circ}$	17.5 $^{\circ}$ \times 13.1 $^{\circ}$	12.5 $^{\circ}$ \times 9.4 $^{\circ}$	8.8 $^{\circ}$ \times 6.6 $^{\circ}$
Optical zoom	1x					
Digital zoom	1x, 2x and 4x			1x, 2x, 4x and 8x		
Focus	Manual					
Power						
Battery type	Single 18650 battery					
Battery life	\geq 7 hours					
Interface						
Video interface	LEMO					
Mechanical interface	Picatinny					
Display						
Display type	0.39" OLED			0.5" OLED		
Resolution	1024 \times 768			800 \times 600		
Eyepiece	Exit pupil distance \geq 10 mm, Exit pupil diameter \geq 20 mm			Exit pupil distance \geq 20 mm, Exit pupil diameter \geq 20 mm		
Video output	Analog video					
Functions						
Hot spot tracking	Available					
Scene modes	Enhanced, Highlight and Natural					
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot					
Compensation modes	Shutter and scene compensation					
Environmental						
Operating temperature range	-30 $^{\circ}$ C to 50 $^{\circ}$ C					
Storage temperature range	-45 $^{\circ}$ C to 70 $^{\circ}$ 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					
Detection range						
Detection range	700 m	1000 m	1400 m	1000 m	1400 m	2000 m
Physical						
Weight	\leq 475 g	\leq 490 g	\leq 550 g	\leq 540 g	\leq 550 g	\leq 660 g
Size (L \times W \times H)	153 \times 57 \times 79 mm	157 \times 58 \times 79 mm	178 \times 62 \times 83 mm	161 \times 57 \times 79 mm	161 \times 60 \times 79 mm	177 \times 66 \times 87 mm
Standard	Device \times 1, Eye mask \times 1, Carry bag \times 1, 7-pin LEMO to USB cable \times 1, Battery charger \times 1, 18650 battery \times 1, Quick start guide \times 1, Warranty card \times 1					
Optional	External eyepiece, Adapter ring, Picatinny rail, Bluetooth remote control (with hook-and-loop fastener), 7-pin LEMO to USB and AV cable					

Distributed by:

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Technical parameters are subject to change without notice. For the latest information, please visit our website: www.guideir.com

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