KOKVP

Measure · See · Decide

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KOKVP

MEASURE SEE DECIDE



COMPANY PROFILE

ALL FOR YOUR NEEDS

KOKVP

ABOUT US

KOKVP Optics specializes in professional optical devices tailored for hunting and outdoor observation. Our portfolio covers thermal imaging scopes, digital night vision gear and matched smart APP control solutions. We pursue outstanding imaging quality, rugged construction and stable performance for all-weather field use. With continuous technical upgrading and rigorous quality management, we supply trusted optical equipment to worldwide outdoor users.

Discover more at www.kokvpoptics.com

MEASURE
Accurate distance information

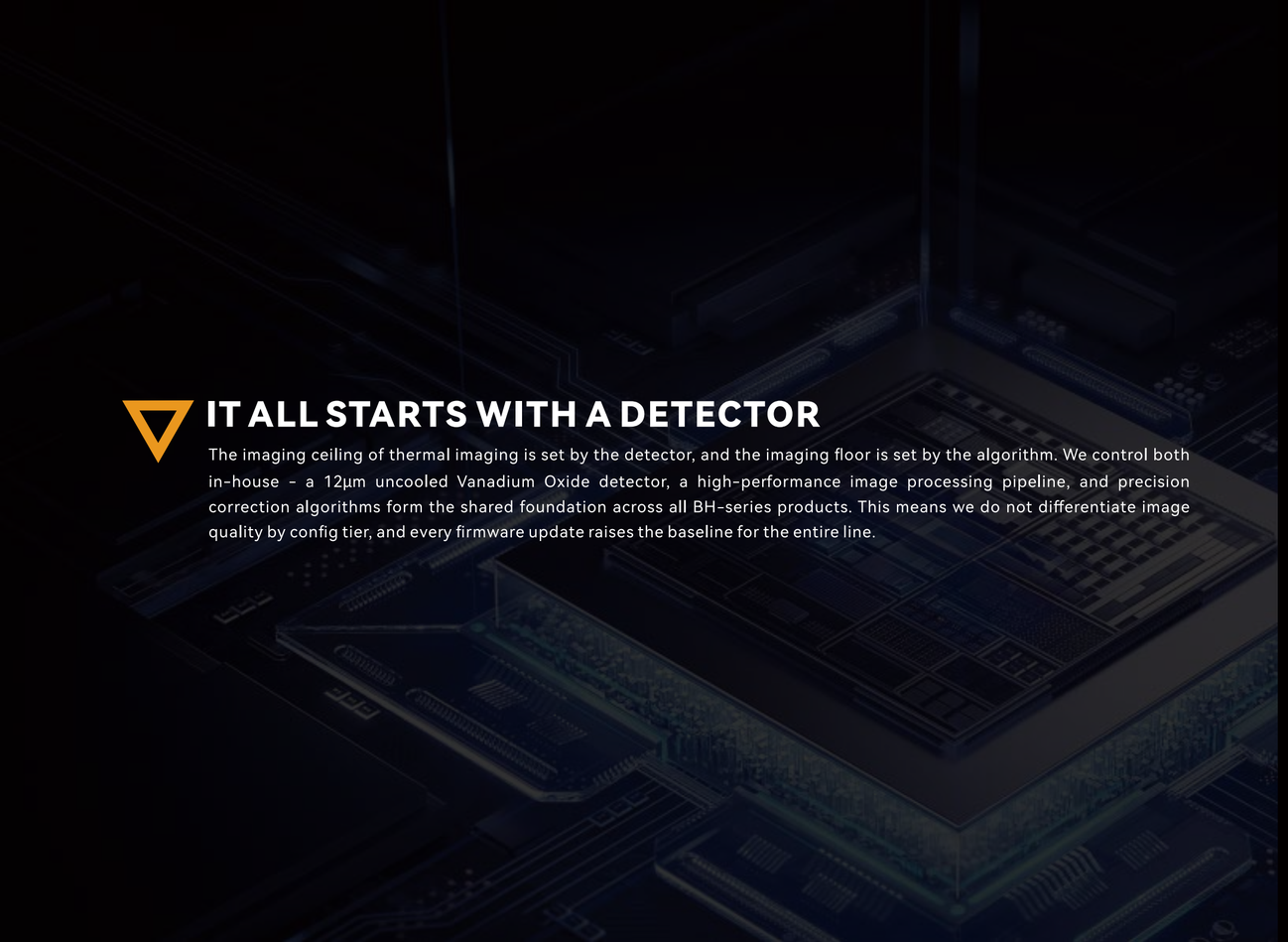
SEE
Advanced optical & thermal imaging

DECIDE
Confident hunting decisions

PROFESSIONAL HUNTING OBSERVATION DEVICES



BH-ATG01 BH-ATS01 BH-ATL01 BH-SQT01 BH-UTC01 BH-HT102 BH-AQT BH-ATF01



IT ALL STARTS WITH A DETECTOR

The imaging ceiling of thermal imaging is set by the detector, and the imaging floor is set by the algorithm. We control both in-house - a 12μm uncooled Vanadium Oxide detector, a high-performance image processing pipeline, and precision correction algorithms form the shared foundation across all BH-series products. This means we do not differentiate image quality by config tier, and every firmware update raises the baseline for the entire line.

12 μm	60 Hz	≤20 mK	1280x1024
Pixel Pitch	Max Real-time Frame Rate	NETD (Noise Equivalent Temperature Difference)	Max Eyepiece Display

DETECTOR

12μm uncooled Vanadium Oxide focal plane array, NETD ≤20mK (0.02℃-level temperature difference); 256 x 192 / 384 x 288 / 640 x 512 three tiers. Handheld, head-mounted, and long-range aiming share the same process platform, delivering stable and predictable weak-target signal-to-noise ratio.

IMAGE PIPELINE

Detail enhancement, noise reduction, and dynamic range compression are completed in a single pass, avoiding the smear caused by multi-stage processing. 50 Hz real-time output; the ATS search series boosts to 60 Hz - in search scenarios, frame rate matters more than resolution for whether a target is found.

CORRECTION ALGORITHM

Precision correction algorithm comes standard, eliminating image degradation caused by ambient temperature changes. A shutter correction channel is also retained for one-touch manual reset after rapid temperature shifts. Uniform imaging during long-duration observation, and reliable operation across wide temperature ranges.

EYEPIECE & DIOPTER

360 x 320 / 40 x 320 / 1024 x 768 / 1280 x 1024 viewfinder displays, higher than the detector's native resolution - menus and reticles stay sharp at all times. Diopter adjustment -5SD to +5SD, eye relief 15-30 mm; users wearing glasses still get a full field of view.

AHEAD IN IMAGE QUALITY

In the moment that matters most, users don't need a long spec sheet - they need an image they can trust to make a decision. We break image quality into three controllable, reproducible factors: detector sensitivity, the algorithm's ability to clean up the image, and the final-mile tuning of optics and display.

ADVANCED THERMAL DETECTOR

- 12μm uncooled Vanadium Oxide detector, NETD ⩽20mK, resolves 0.02°C-level temperature differences
- 640 x 512 / 384 x 288 / 256 x 192 three resolution tiers, consistent from handheld to long-range
- 50 Hz real-time imaging; ATS search series 60 Hz, no motion blur on fast-moving targets
- 8-14 μm wide response band, covering the radiation peak of room-temperature targets



IMAGE ALGORITHMS

- Five-level image detail enhancement, flexibly tuned by target features and environmental clutter
- White-hot / black-hot / red-hot / green-hot / pseudo-color palettes, one-key switching
- Precision correction algorithm eliminates image degradation from temperature changes; no quality drop during long observation sessions
- Manual brightness / contrast adjustment, pulling out detail in both bright daylight and pitch-black environments



OPTICS & DISPLAY TUNING

- F1.0 large aperture across the entire line, high light throughput, better weak-target SNR
- 360 x 320 / 480 x 320 / 1024 x 768 / 1280 x 1024 viewfinder displays, higher than detector native resolution



AHEAD IN USER EXPERIENCE

When the device is actually in use, there is often only one hand, a few seconds, and a pair of eyes already filled with adrenaline. Every interaction in the BH series is designed around one principle: complete what you want without taking off the device or switching hands.

ONE BODY, THREE WAYS TO USE

- Handheld: cylinder body grippable in one hand; ATS ⩽ 800g, ATL ⩽ 600g
- Head-mounted: ATF ⩽ 350g, 115 x 70 x 46mm, helmet-mountable
- Front-mounted: ATF can be mounted in front of an optical scope as a front clip-on
- Standard Picatinny rail, ready to mount, no secondary modification needed



ONE-HAND OPERATION

- ATG knob control: focus, magnification, ballistic - one finger through the whole sequence
- ATS scroll wheel control, excellent ergonomic feel
- ATL / ATF handwheel control, tactile damping, countable detents
- Operable with gives; switching without removing the device; no pupil dilation disruption in dark environments



INTEGRATED SYSTEM

- Laser rangefinder ⩾ 1200m, accuracy < 1m (standard on ATG / ATS / AQT, optional on ATL)
- Smart ballistic / memorized ballistic, 10 zeroing profiles stored, quick switch between rifles and ammo



GLOBALLY-BASED SERVICE CENTERS

offer fast device maintenance and localized after-sales service.



BUSINESS COVERAGE130+ COUNTRIES & REGIONS

Overseas Distributors:

USA, Japan, South Korea, Germany, Russia, Malaysia (Joint Venture), Brazil, United Kingdom, Ukraine, UAE, Australia, Argentina, Colombia, Peru, Italy, France, Hungary, South Africa, Egypt……

PRODUCT MODEL		RESOLUTION	OBJECTIVE LENS	DIGITAL ZOOM	FIELD OF VIEW	BATTERY LIFE	RECOGNITION RANGE
BH-ATG01		**335-LRF**	384×288, 12μm 50Hz	35mm F1.0	1X、2X、4X、8X	7.5°×5.6°	>8h	2100m
		650-LRF	640×512, 12μm 50Hz	50mm F1.0	1X、2X、4X、8X	8.7°×7°	>8h	3000m
BH-ATS01		**650**	640×512, 12μm 60Hz	50mmF1.0	1X、2X、4X	8.8°×7°	≥12h	1200m 3000m Recog Dist (Human):1200m Recog Dist (Car):3000m
BH-ATL01		**225**	256×192, 12μm 50Hz	25mmF1.0	1X、2X、4X、8X	7°×5.3°	≥6h	600m 800m Recog Dist (Human):600m Recog Dist (Car):800m
		335	384×288, 12μm 50Hz	35mmF1.0	1X、2X、4X、8X	7.5°×5.6°	≥6h	850m 1100m Recog Dist (Human):850m Recog Dist (Car):1100m
		650	640×512, 12μm 50Hz	50mmF1.0	1X、2X、4X、8X	8.7°×7°	≥6h	1200m 1600m Recog Dist (Human):1200m Recog Dist (Car):1600m
BH-SQT01		**209**	256×192, 12μm 50Hz	9mmF1.0	1X、2X	19.4°×14.6°	≥2h	250m 350m Recog Dist (Human):250m Recog Dist (Car):350m
BH-HT102				24mm	7X	6.5°	Meas. times > 2000	1646m 1189m 1829m Deer: 1400yd (1189m) Trees: 1800yd (1646m) Reflectors: 2000yd (1829m)

PRODUCT MODEL		OBJECTIVE LENS	RESOLUTION	DIGITAL ZOOM	FIELD OF VIEW	BATTERY LIFE	RECOGNITION RANGE
BH-UTC01		**691**	640×512, 12μm 50Hz/25Hz	9.1mm F1.0		48°x38°		
		613	640×512, 12μm 50Hz/25Hz	13mm F1.0		36°x29°		
		625	640×512, 12μm 50Hz/25Hz	25mm F1.0		22°x18°		
BH-AQT		**QT2**	256×192, 12μm 50Hz	25mmF1.0	1X、2X、4X、8X	7°×5.3°	≥5h	600m
		QT3	384×288, 12μm 50Hz	25mmF1.0	1X、2X、4X、8X	10.5°×7.9°	≥5h	600m



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Infrared Imaging Observation Scope

BH-ATG01

335-LRF/650-LRF







PRODUCT MODEL	RESOLUTION	OBJECTIVE LENS	DIGITAL ZOOM	FIELD OF VIEW	BATTERY LIFE	RECOGNITION RANGE
335-LRF	384×288, 12μm 50Hz	35mm F1.0	1X、2X 4X、8X	7.5°×5.6°	>8h	2100m
650-LRF	640×512 12μm 50Hz	50mm F1.0	1X、2X 4X、8X	8.7°×7°	>8h	3000m





12μm High-Performance Vanadium Oxide Detector, NETD ≤20mK

12μm vanadium oxide infrared detector with NETD ≤20mK. High thermal sensitivity captures faint heat sources clearly at night or in fog, delivering crisp thermal images.

Wi-Fi Real-Time Image Transmission

Built-in Wi-Fi streams thermal images to mobile devices in real time. Remote preview, photo and video recording for easy playback and sharing.



50Hz Imaging & 1280×1024 HD Display

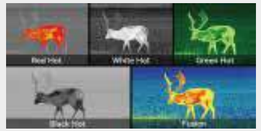
50Hz high refresh rate ensures smooth real-time images without lag. 1280×1024 HD screen presents fine thermal details for stable observation





Multiple Thermal Color Palettes

5 display modes available: black thermal, white thermal, red thermal, green thermal and pseudo-color. Switch freely to suit different environments and locate targets quickly.



1200m Long-Range Accurate Ranging

Precise ranging up to 1200m. Distance data syncs with the ballistic system instantly for long-distance shooting.

Intelligent & Memory Trajectory Modes

Intelligent trajectory and memory trajectory functions. Quickly calculate ballistic compensation and save ballistic data for different ammo to boost hit rate.





PIP | 1280X1024 HD | 50Hz | 1/2/4/8X | 384*288/ 640*512 IR | WIFI

Product Model		BH-ATG01-335-LRF	BH-ATG01-650-LRF
Optical Parameters	Resolution	384×288, 12μm	640×512, 12μm
	Frame Rate	50Hz	50Hz
	Objective Lens	35mm F1.0	50mm F1.0
	Field of View	7.5°×5.6°	8.7°×7°
	Recognition Range	2100m	3000m
	Digital Zoom	1X、2X、4X、8X	
	Ranging Performance	Range ≥1200m, Accuracy ≤1m	
Ballistic Solution		Intelligent Ballistics / Custom Ballistics	
Display Characteristics	Display Resolution	1280×1024	
	Diopter Adjustment	-5SD ~ +5SD	
	Exit Pupil Diameter	≥5mm	
	Image Modes	White Hot(W)/Green Hot(G)/Black Hot(B)/Red Hot(R)/Fused(F)	
Battery Life		>8h,one 18650 rechargeable battery	
Physical Properties	Weight	≤950g	
	Dimensions	≤390×80×85mm	
Environmental Parameters	Operating Temperature	-20℃ ~ +50℃	
	Storage Temperature	-40℃ ~ +70℃	
	Protection Rating	IP67	



Thermal Monocular

BH-ATS01

650





PRODUCT MODEL	RESOLUTION	OBJECTIVE LENS	DIGITAL ZOOM	FIELD OF VIEW	BATTERY LIFE	RECOGNITION RANGE
650	640×512 12μm 60Hz	50mm F1.0	1X、2X 4X	8.8°×7°	≥12h	Recog Distance (Human):1200m Recog Distance (Car):3000m



High Sensitivity Thermal Detector

Equipped with a 12-micron high-performance vanadium oxide detector, NETD ≤20mK. Delicate thermal details can be captured even under low temperature difference conditions. It supports 60Hz real-time frame rate and 1024×768 high-definition display for smooth and vivid thermal images.

Large-capacity Detachable Battery System

Comes with a 5000mAh removable high-capacity lithium battery. It delivers long continuous runtime at 25℃. USB Type-C charging design makes power replenishment simple and efficient for long-time field missions.





Ergonomic One-hand Operation

Adopts mature ergonomic structure design. All core function keys are reasonably arranged, enabling stable one-handed operation. With ±5D diopter adjustment, it accommodates myopic and hyperopic observers for comfortable viewing.



Rugged & Reliable for Harsh Scenarios

IP67 dustproof and waterproof construction, matched with high-quality optical objective lens and digital zoom function. It maintains stable imaging performance in rain, sand and other harsh outdoor environments to adapt to all-weather observation.



Built-in High-precision Laser Ranging

Integrated high-performance laser ranging module. It can quickly measure target distance and support ballistic compensation, bringing convenient ranging and aiming experience for outdoor observation and hunting.







PIP



1280X768 AMOLED



60Hz



1/2/4X



640*512 IR



WIFI

Product Model		BH-ATS01-650
Optical Parameters	Resolution	640×512, 12μm
	Frame Rate	60Hz
	Objective Lens	50mm F1.0
	Field of View	8.8°×7°
	Recognition Distance (Human)	1200m
	Recognition Distance(Car)	3000m
	Electronic Zoom	1X、2X、4X
	Ranging Performance	Ranging Range ≥1200m, Accuracy < 1m (optional)
Display Characteristics	Exit Pupil Distance	15mm
	Diopter Adjustment	-5SD ~ +5SD
	Image enhancement	Manually adjust contrast and brightness
	Image Modes	White Hot / Black Hot / Red Hot / Green Hot / False Color
Battery Life		≥12h, 1 rechargeable 21700 battery
Physical Properties	Weight	≤800g
	Dimensions	≤198×67×67mm
Environmental Parameters	Operating Temperature	-20℃ ~ +50℃
	Storage Temperature	-40℃ ~ +70℃
	Protection Rating	IP67

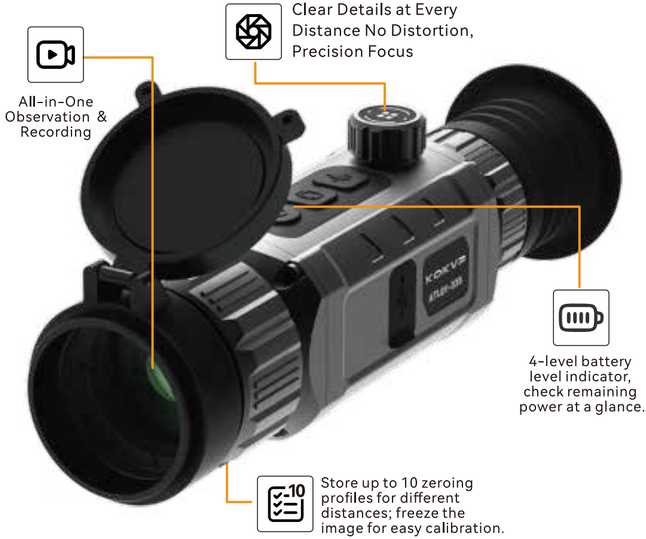


Infrared Imaging Observation Scope

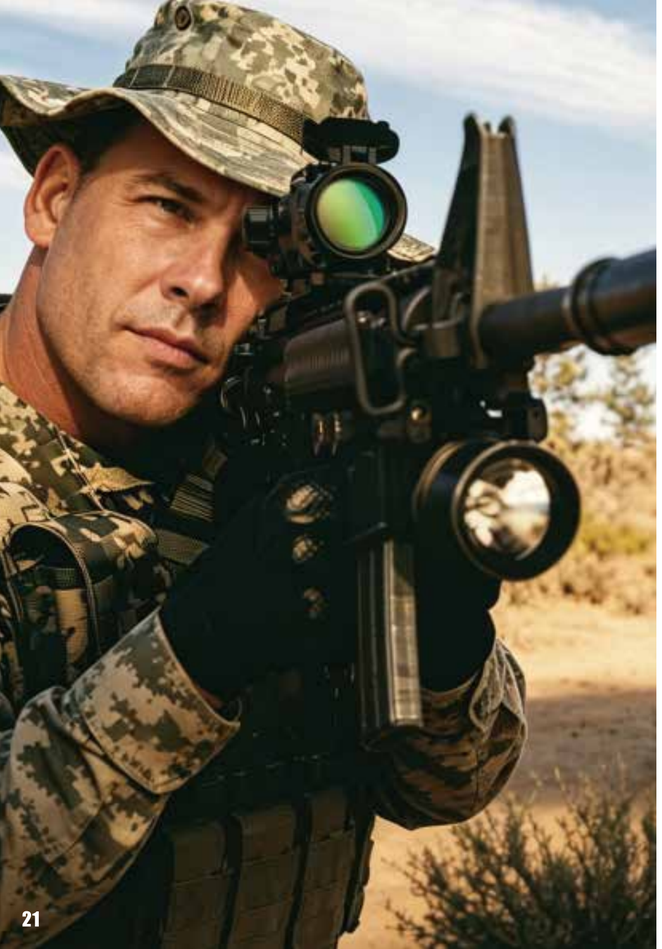
BH-ATL01

225/335/650





PRODUCT MODEL	RESOLUTION	OBJECTIVE LENS	DIGITAL ZOOM	FIELD OF VIEW	BATTERY LIFE	RECOGNITION RANGE
225	256×192 12μm 50Hz	35mm F1.0	1X、2X 4X、8X	7°×5.3°	≥6h	Recog Distance (Human):600m Recog Distance (Car):800m
335	384×288 12μm 50Hz	25mm F1.0	1X、2X 4X、8X	7.5°×5.6°	≥6h	Recog Distance (Human):850m Recog Distance (Car):1100m
650	640×512 12μm 50Hz	50mm F1.0	1X、2X 4X、8X	8.7°×7°	≥6h	Recog Distance (Human):1200m Recog Distance (Car):1600m





WIFI Real-Time Image Transmission

Supports WIFI real-time image streaming for wireless live view and convenient remote monitoring.

50Hz Real-Time Imaging & 1024×768 HD Display

50Hz high-frame-rate real-time imaging with a 1024×768 high-definition display, ensuring smooth, smear-free visuals and clear details.



12-micron High-Performance Vanadium Oxide Detector

Equipped with a 12-micron high-performance vanadium oxide detector, NETD ≤ 20mK, delivering outstanding thermal sensitivity to capture subtle temperature differences.

Multiple Thermal Display Modes

Offers selectable display modes: black thermal, white thermal, red thermal, green thermal and pseudo-color, to match various observation scenarios.



Black Hot　Red Hot　Fused　White Hot　Green Hot





PIP | 1024X768 HD | 50Hz | 1/2/4/8X | 256*192/384*288 640*512 IR | WIFI

Product Model		BH-ATL01-225	BH-ATL01-335	BH-ATL01-650
Optical Parameters	Resolution	256×192, 12μm	384×288, 12μm	640×512, 12μm
	Frame Rate	50Hz	50Hz	50Hz
	Objective Lens	25mm F1.0	35mm F1.0	50mm F1.0
	Field of View	7°×5.3°	7.5°×5.6°	8.7°×7°
	Detection Range (Human)	600m	850m	1200m
	DetectionRange(Vehicle)	800m	1100m	1600m
	Digital Zoom	1X、2X、4X、8X		
Focus Mode		Manual Handwheel Focus		
Display Characteristics	Display Resolution	1024×768		
	Diopter Adjustment	-5SD ~ +5SD		
	Image Adjustment	Contrast/Brightness Adjustment		
	Image Modes	White Hot(W)/Green Hot(G)/Black Hot(B)/Red Hot(R)/Fused(F)		
Battery Life		≥6h, 1X 18500 Rechargeable Battery		
Appearance	Weight	≤550g		
	Imensions(with Eyecup)	≤220×74×71mm		
Environmental Parameters	Operating Temperature	-20℃ ~ +50℃		
	Storage Temperature	-40℃ ~ +70℃		
	Protection Rating	IP67		

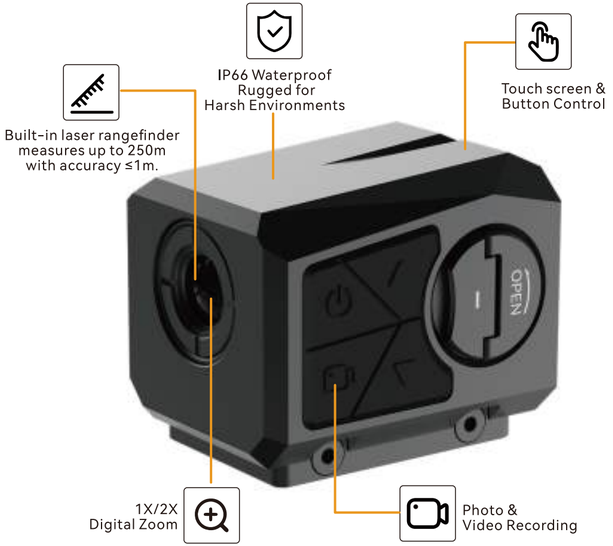
Thermal Imaging Observation Scope

BH-SQT01

209







PRODUCT MODEL	RESOLUTION	OBJECTIVE LENS	DIGITAL ZOOM	FIELD OF VIEW	BATTERY LIFE	RECOGNITION RANGE
209	256×192 12μm 50Hz	9mm F1.0	1X、2X	19.4°×14.6°	≥2h	Recog Distance (Human):250m Recog Distance (Car):350m

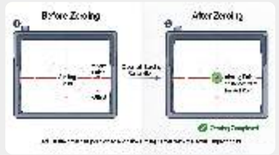


High-Performance Vanadium Oxide Detector

Adopts advanced 12-micron high-performance vanadium oxide detector, with NETD ≤30mK. It delivers ultra-high thermal sensitivity, captures subtle temperature differences clearly, and brings sharp, low-noise thermal imaging even in complex low-contrast environments.

Crosspoint Zeroing Feature

Built-in crosspoint zeroing function for precise calibration. It helps you accurately align the aiming point, stabilize aiming accuracy and reduce offset error during long-time use.





50Hz Real-Time Large-Screen Display

Equipped with a large screen and 50Hz high refresh rate real-time image output. It presents smooth, lag-free thermal video, effectively avoiding motion blur, ideal for dynamic observation and fast target tracking.



Multiple Thermal Color Palette Modes

Comes with versatile display modes including black-hot, white-hot, red-hot, green-hot and pseudo-color. You can switch freely to match different usage scenarios, optimize target contrast and improve recognition efficiency.

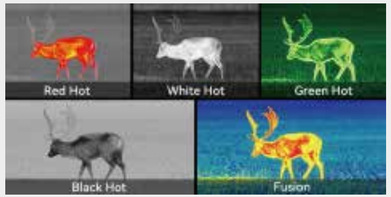


Photo & Video Recording Function

Supports photo capture and video recording. You can save thermal imaging evidence, inspection footage or observation records anytime, convenient for later review, analysis and file sharing.







Touch screen & Button Control

256×192 HD

5 Image Palette Modes

1/2X Digital Zoom

Photo & Video Capture

IP66 level

Product Model		BH-SQT01-209
Optical Parameters	Resolution	256×192, 12μm
	Frame Rate	50Hz
	Objective Lens	9mm F1.0
	Field of View	19.4°×14.6°
	Distance recognition (person)	250m
	Distance recognition (car)	350m
	Electron Magnification	1X、2X
	Laser Red Dot	Optional
Display Characteristics	Display Resolution	360×320
	Image Adjustment	Contrast and brightness adjustment
	Image Modes	Black Hot, White Hot, Red Hot, Green Hot, False Color
Interface	External power supply	USB Type-C,5V
	Mechanical interface	Picatinny and others
Battery Life		≥2h，one 15270 battery
Physical Properties	Weight	≤200g
	Size	≤52×41×44mm
Environmental Parameters	Working Temperature	-20℃ ~ +50℃
	Storage Temperature	-40℃ ~ +70℃

Hunting Rangefinder

BH-HT102







PRODUCT MODEL	DISTANCE UNITS	OBJECTIVE LENS	DIGITAL ZOOM	FIELD OF VIEW	BATTERY LIFE	RECOGNITION RANGE
BH-HT102	m / Yd	24mm	7X	6.5°	Meas. times > 2000	Deer: 1400yd (1189m) Trees: 1800yd (1646m) Reflectors: 2000yd (1829m)





Ultra-Long Range & Precise Targeting



Boasts ultra-long detection range for accurate target locking, with a maximum measuring distance up to 2000 yards (approx. 1829 meters). It delivers stable and accurate readings even at long distances to meet your long-range observation and ranging demands.

Rugged Build, IP66 All-Weather Protection

Solid and durable construction with IP66 waterproof rating. It resists rain and dust, and works stably under harsh outdoor weather for reliable all-weather performance.

Long-Lasting Battery Life



Supports extended runtime on a single charge. No frequent recharging required, ideal for long-time outdoor hunting, scouting and field missions.

Intelligent Modes for Complex Scenarios

Equipped with intelligent ranging modes including Normal, First Target Priority and Last Target Priority. It effectively filters interference from foreground branches and grass, and reliably identifies targets in complex environments with obstacles.



M1

Open-field single target



M2

Lock near-range game

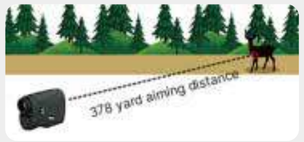


M3

Lock obstructed far prey

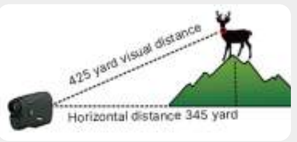
Ballistic Compensation for Professional Shooting

Built-in ballistic compensation function supports HCD (Horizontal Component) and LOS (Line of Sight) dual calculation modes. It provides accurate compensation reference for long-range shooting and assists you to achieve precise shots.



HCD-Horizontal Component

Angle-compensated shooting distance,
ideal for archery on slopes < 15°



LOS-Line of Sight

True line of sight slant distance,
ideal for long-range rifle shooting on slopes > 15°

Clear Optics & Comfortable Operation

Adopts premium optical system to deliver bright and sharp images with excellent view performance. User-friendly control layout brings comfortable operation experience without fatigue during long-time observation.





OLED Self-luminous Display



6.5° Field of View



7X Magnification



< 0.5s Fast Response



Laser Pulse Ranging

Product Model		BH-HT102
Range Performance	Measuring Range	Deer: 1400 yards(1189 meters)
		Trees: 1800 yards (1646 meters)
		Reflectors: 2000 yards (1829 meters)
	Minimum Measurement Range	5 yards(4.5 meters)
	Distance Accuracy	±1yard (≤100 yards)
		±2 yards (100-500 yards)
		±3 yards (>500 yards)
	Distance Units	m / Yd
Optical Parameters	Magnification	7X
	Objective lens Diameter	24mm
	Exit pupil distance	16.7mm
	Exit pupil diameter	4mm
Battery Life		Number of measurements > 2000 (brightness level 3)
Brightness		Level 5 (OLED screen display brightness)
Physical Properties	Weight	≤220g
	Dimensions	≤114×82×42mm
Environmental Parameters	Operating Temperature	-20℃ ~ +60℃
	Protection Rating	IP66

Uncooled Infrared Core Module

BH-UTC01

613/625/691







PRODUCT MODEL	RESOLUTION	OBJECTIVE LENS	DETECTOR TYPE	FIELD OF VIEW	NETD	MRTE
691	640×512 12μm 50Hz/25Hz	9.1mm F1.0	UFPA (Vox)	48°×38°	≤20 mK	≤350 mK
613	640×512 12μm 50Hz/25Hz	13mm F1.0	UFPA (Vox)	36°×29°	≤20 mK	≤350 mK
625	640×512 12μm 50Hz/25Hz	25mm F1.0	UFPA (Vox)	22°×18°	≤20 mK	≤350 mK





High-definition Thermal Imaging Performance

It delivers fine, detailed thermal imaging performance, equipped with a high-performance 640×512, 12μm infrared detector and outstanding sensitivity of NETD ≤20mK. Multiple color palette display modes are available to suit different observation scenarios.



Black Hot



White Hot



Fused

Ultra-compact & Lightweight Form Factor

Boasting an ultra-small and lightweight structure, this module measures only 20×20×44.3mm and weighs less than 25g excluding the lens. Its miniature footprint enables seamless and convenient integration into a wide range of compact and portable devices.

Low Power Consumption & Wide Temperature Operation

Features ultra-low power consumption with a minimum power draw of 0.6W. It supports a wide 5V–15V input voltage range and maintains reliable, stable operation across an extreme temperature span from -40°C to +60°C.

Versatile Output & Control Interfaces

Comes with abundant video output choices covering USB 2.0 and CVBS. TTL serial port control is supported for convenient configuration, and two types of optional interface boards are offered to meet diverse connection demands.



Comprehensive Image Optimization Functions

Integrated with a complete set of professional image tuning algorithms, including automatic NUC, bad pixel correction. You can remotely adjust image brightness and contrast flexibly by sending serial commands for ideal visual effects.





9.1/13/25mm Lens

640×512 Resolution

NETD ≤20mK

Lightweight ≤25g·20mm·0.8W

-40℃~+60℃ Operating

Product Model		BH-UTC01-691	BH-UTC01-613	BH-UTC01-625
Detector	Detector Type	UFPA (Vox)		
	Resolution	640(H)x512(V)		
	PixelPitch	12 μm		
	Frame Rate	50Hz/25Hz		
	MRTD	≤350 mK		
	NETD	≤20 mK		
Lens	Focal Length	9.1mm	13mm	25mm
	Aperture	F1.0	F1.0	F1.0
	Field of View	48°x38°	36°x29°	22°x18°
Power Supply	Voltage	DC 12V (5V~15V)		
	Power Consumption	≤0.8W		
Interface	Video Output	USB(Default)/50HZ、CVBS(PAL)/25HZ		
	Commication	USB to Virtual COM Port		
Environment	Operating Temp	-40°C~+60°C		
Basic Functions	Image Mode	White Hot/Black Hot/Pseudo Color		
Physical	Weight (w/o Lens)	≤25g		
	Dimensions (w/o Lens)	20mm X 20mm X 44.3mm		