HIKMICRO SIGHT
Wi-Fi Hotspot for Mobile APP

BATTERY **1** YEAR
FULL PRODUCT **3** YEARS
DETECTOR **10** YEARS

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HIKMICRO

THUNDER **ZOOM** 2.0

The **First 20mK Thermal Scope** with Optical Zoom

THERMAL SCOPE

◆ TH50Z 2.0 ｜ TQ60Z 2.0

	TH50Z 2.0	TQ60Z 2.0
Sensor	384 x 288, 12 μm	640 x 512, 12 μm
NETD	< 20 mK @ 25°C	
Focal Length	25mm @ F0.8; 50mm @F1.0	35mm @F0.9; 60mm @F1.1
Magnification	2.2x-17.4x (8x); 4.3x-34.6x (8x)	1.8x-14.6x (8x); 3.1x to 25.0x (8x)
Field of View(H × V), Degrees / m @100m	10.5° × 7.9°/18.4 m × 13.8 m 5.3° × 4.0°/9.2 m × 6.9 m	12.5° × 10.0°/21.9 m × 17.6 m 7.3° × 5.9°/12.8 m × 10.2 m
Detection Range	1200 m/2600 m	1800 m/3000 m
Display	1024 × 768, 0.39 inch, OLED	
Max. Recoil	1000 g/0.4 ms	
Battery Supply	≥ 6.5 h (25°C, with hotspot off), Replaceable and Rechargeable Li-ion Battery Pack	
Dimension & Weight	241.2 mm × 67.0 mm × 73.4 mm, 750 g without battery	254.4 mm × 68.5 mm × 80.56mm, 843 g without Battery
Other features	Audio & Recoil-activated recording, IP67, brightness & tone adjustment, Built-in EMMC (16 GB)	
Standard Accessory	Battery Charger、Type-C Cable、Lint-free Cloth、Battery (x2)、QSG、Bag	

Ultra Clear Image, Impressive Detail Recognition

<20 NETD mK

◆ Equipped with extremely high thermal sensitivity (NETD<20mK), THUNDER ZOOM 2.0 ensures vivid, informative, and layered Images even under the slightest temperature differences. For example, the smallest features such as bristles or the sex can be reliably detected when hunting wild boar. The branches or leaves will stand out clearly in front of the boar as well when with NETD<20mK.

Up to 640x512
Thermal Camera

12μm
Pixel Interval

50mm | 60mm
Up to F0.8 Large Aperture
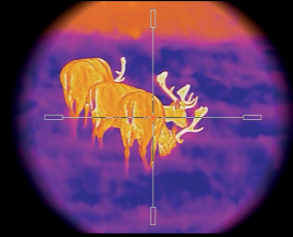
◆ High-Quality Zoomed Image through Optical Zoom

Optical Zoom: Maintain High-Quality Images Even Zooming.
THUNDER ZOOM 2.0 offers dual FOV by optical zoom technology. Switching the device's two cameras, the image is zoomed with magnifications change and still maintains high quality.

One-time Zeroing
Zero under the small FOV lens first, then switch to the other lens, the zero position will be adjusted automatically. That is, you can zero one time for two lenses simultaneously.

Optical Zoom
Quality Loss = 0%
VS
Digital Zoom
35mm

Step 1. Zero at 60mm or 50mm lens first
Step 2. Zero automatic calibrated when switching to 35mm or 25mm lens
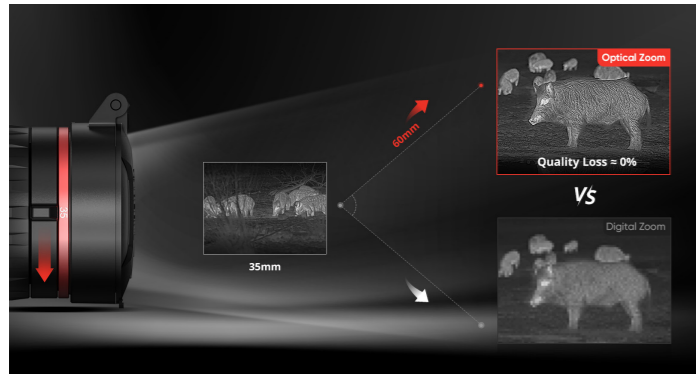
◆ Long Operation Time, Support Direct Charging

Two new battery packs extend working time up to 13h+, and can be charged in the device directly. Besides, it performs superior to others, especially in low-temperature environment.

working time
13H+

◆ Quick Settings Brings Higher Efficiency During Hunting

1.Brightness and contrast adjustment in Quick Menu: helps to conveniently recognize details of the image in a few clicks.
2.The PIP function is activated with ONE press (Digital Zoom Key).

Hold Digital Zoom Key
Quick Menu ▶
☼ Brightness Adjustment
1   5   10
◑ Contrast Adjustment
1   5   10

Model	Introduction	Scenarios	Lens	Magnification	FOV (@100 m)		Detection Range		Detector	Battery
TH50Z 2.0	With a 2.2x to 34.6x large magnification, TH50Z 2.0 is the perfect match for both wooded and open field areas. A 0.8 large aperture also strengthens your viewing ability.	Field Forest	25mm, F0.8	2.2-17.4 8x	18.4m	350m	1200m		384 × 288 12μm NETD < 20mK	6.5h
			50mm, F1.0	4.3-34.6 8x	9.2m	650m	2600m			
TQ60Z 2.0	Equipped with a 640 sensor, a 35mm F0.9 and a 60mm F1.1 lens given a wide FOV at 22m, TQ60Z 2.0 is perfect for long-range hunting up to 3000m in both forest or in field.	Field Forest	35mm, F0.9	1.8-14.6 8x	21.9m	500m	1800m		640 × 512 12μm NETD < 20mK	6.5h
			60mm, F1.1	3.1-25.0 8x	12.8m	750m	3000m			