

APEX
VISION

NOVA Series

Thermal Imaging Scope

**Built Light,
Built Strong**

outdoor

Introduction

The NOVA Series thermal imaging scope is designed for hunters seeking high performance and portability. Its lightweight yet durable design makes it easy to carry. A 10-minute quick charge provides up to 1 hour of continuous use, while the hot-swappable battery ensures you never miss a key moment.

Features

- **APEXVISION:** Next-gen infrared imaging system for ultra-clarity & precision
- **Exceptional Imaging:** NETD < 15mK infrared detector paired with Hyper-light 2.0 Scenario-Optimized Algorithm
- **Lightweight design:** Slim and lightweight body, providing easy portability and comfortable handling
- **Long operating time:** 8 hours of operation, supports 20W quick charging and hot-swappable 18500 batteries
- **Smart recording:** Recoil-activated photos and video recording, capturing the moments before and after the shot
- **Rugged and durable:** IP67 waterproof and dustproof, 6000J recoil resistance
- **Wi-Fi connection:** 2.4G/5G dual-band, enabling more efficient data transmission
- **Powerful APP:** Paired with TargetIR APP and TargetIR Ballistic APP for OTA firmware upgrade and ballistic calculation

Applications

- Night Hunting
- Law Enforcement
- Search & Rescue
- Personal Security



Specifications

Product model	N225S	N425S	N435S	N635S
Sensor				
Core technology	Equipped with full ApexVision SI system architecture: Detector ApexCore SI + Platform Nexus 1.0 + Algorithm Hyper-Light 2.0			
Type	Uncooled VOx Infrared Detector, 8 to 14μm			
Resolution	256×192@12μm	400×300@12μm		640×512@12μm
NETD	15mK			
Frame rate	50Hz			
Lens				
Objective lens	25mm, F1.0		35mm, F0.9	
Field of view	7.0°×5.3°	11.0°×8.2°	7.9°×5.9°	12.5°×9.4°
FOV m@100m	12×9	19×14	13×10	22×17
Magnification	3.6x~14.4x	2.3x~9.2x	3.3x~13.2x	2.0x~16x
Detection range	1300m/1400yd		1800m/1950yd	
Focus	Manual			
Display				
Display type	0.39" AMOLED 1024×768			
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia			
Eyepiece	Eye relief: 48mm; Diopter -5 to +5; Zoom: 14x			
Hardware				
Wi-Fi	2.4G, 5G			
Interface	USB-C (Charge/USB2.0)			
Others	Microphone, Bluetooth			
System				
Recording function	Photo/Video (Audio recording included)			
Memory capacity	64 GB			
Power				
Battery type	Customized Battery (Built-in) and 18500 Battery (External)			
Operating time	8 hours	7.5 hours		8 hours
Environmental				
Operating temp.	-20°C to 50°C / -4°F to +122°F			
Shock	6000J			
Encapsulation	IP67			
Physical				
Weight (g/oz)	475/16.76	530/18.7	525/18.51	
Size (mm/in)	218×72×60/8.58×2.83×2.36	240×72×60/9.45×2.83×2.36	228×72×60/8.98×2.83×2.36	
Standard	Device, Quick-Release Scope Mount, Carry Bag, Lint-Free Cloth, Battery Charger, 18500 Battery ×2, Quick Charging Adapter, USB-C to USB-C Cable, Quick Start Guide, Warranty Card			
Optional	Bluetooth Remote Control, 18500 Battery, 1200m Laser Rangefinder			

* Product performance is based on testing in a controlled laboratory environment. Your test results may vary due to several external and environmental factors.
All specifications are subject to the actual product. The manufacturer reserves the right to modify technical specifications without notice or liability to you.