



## 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

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

### Applications

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



## Specifications

Product model	N225S	N425S	N435S	N635S
<b>Sensor</b>				
Core technology	Equipped with full ApexVision S1 system architecture: Detector ApexCore S1 + 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			
<b>Lens</b>				
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			
<b>Display</b>				
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			
<b>Hardware</b>				
Wi-Fi	2.4G, 5G			
Interface	USB-C (Charge/USB2.0)			
Others	Microphone, Bluetooth			
<b>System</b>				
Recording function	Photo/Video (Audio recording included)			
Memory capacity	64 GB			
<b>Power</b>				
Battery type	Customized Battery (Built-in) and 18500 Battery (External)			
Operating time	8 hours	7.5 hours		8 hours
<b>Environmental</b>				
Operating temp.	-20°C to 50°C / -4°F to +122°F			
Shock	6000J			
Encapsulation	IP67			
<b>Physical</b>				
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, Eye mask, Quick-Release Scope Mount, Carry Bag, Lint-Free Cloth, Battery Charger, 18500 Battery ×2, Quick Charging Adapter (US, UK, Australia, and Europe), USB-C to USB-C Cable, Quick Start Guide, Warranty Card			
Optional	Bluetooth Remote Control, 18500 Battery			