

285g

APEX
VISION

Orion C Series

Thermal Imaging Attachment

**Lightest 640
Clip-On Ever.**

outdoor

Introduction

The Orion C Series is a compact thermal imaging attachment for professional use, combining lightweight construction with dependable performance. Powered by the next-generation APEXVISION infrared imaging system, it delivers clear and stable thermal imagery for confident target identification. With a balanced, streamlined design and robust build quality, the Orion C Series is well suited for extended use across demanding environments.

Features

- o **APEXVISION:** Next-gen infrared imaging system for ultra-clarity & precision
- o **Exceptional Imaging:** NETD < 15 mK infrared detector paired with Hyper-light 2.0 Scenario-Optimized Algorithm
- o **Comfortable Viewing:** 0.49-inch display for prolonged observation. (for O635CS)
- o **Lightest 640 in Class:** 285g body weight, compact design for an unburdened, perfectly balanced hunting setup.
- o **Instant Start:** Powers up in just 3 seconds.
- o **Low Latency:** As low as 26 ms, real-time viewing with no perceptible delay.
- o **All-Night Endurance:** Low-power consumption, 2 replaceable 18500 batteries to last the whole night.
- o **Built Rugged:** Withstands 6000 J recoil and features IP67 waterproof.

Applications

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



Specifications

Product model	O435CS	O635CS
Sensor		
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	400×300@12µm	640×512@12µm
NETD	15mK	
Frame rate	50Hz	
Lens		
Objective lens	35mm, F0.9	
Field of view	7.9°×5.9°	12.5°×9.4°
FOV m@100m	13×10	22×17
Magnification	1x	
Detection range	1800m/1950yd	
Focus	Manual	
Display		
Display type	0.39" AMOLED 1024×768	0.49" AMOLED 1920×1080
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia	
Eyepiece	Eye relief: 20mm	
Hardware		
Interface	USB-C (Power supply)	
Power		
Battery type	Single, Replaceable 18500 Battery	
Operating time	8 hours	7 hours
Environmental		
Operating temp.	-20°C to 50°C / -4°F to +122°F	
Shock	6000J	
Encapsulation	IP67	
Physical		
Weight (g/oz)	285/10.05	
Size (mm/in)	99×73×68/3.90×2.87×2.67	
Standard	Device, Carry Bag, Accessory Bag, Lint-Free Cloth, Battery Charger, 18500 Battery ×2, USB-A to USB-C Cable, Quick Start Guide, Warranty Card	
Optional	Adapter Ring, 18500 Battery	

Adapter Ring	
A	Weighs 70g, compatible with 38/40/42/44/46mm
B	Weighs 80g, compatible with 48/50/52/54mm
C	Weighs 90g, compatible with 56/58/60/62/64mm