Guide

outdoor

Orion C Series

Thermal Imaging Attachment

Lightest 640 Clip-On Ever.

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

- **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
- **Comfortable Viewing**: 0.49-inch display for prolonged observation. (for O635CS)
- **Lightest 640 in Class**: 285 g body weight, compact design for an unburdened, perfectly balanced hunting setup.
- **Instant Start**: Powers up in just 3 seconds.
- **Low Latency**: As low as 26 ms, real-time viewing with no perceptible delay.
- **All-Night Endurance**: Low-power consumption, 2 replaceable 18500 batteries to last the whole night.
- **Built Rugged**: Withstands 6000 J recoil and features IP67 waterproof.

Applications

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

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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, Lint-Free Cloth, Battery Charger, 18500 Battery ×2, USB-A to USB-C Cable, Quick Start Guide, Warranty Card	
Optional	18500 Battery, Adapter Ring, Clip-on Ring Mount	

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

* 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.