PRODUCT TECH SHEET

SCAN FOR INFO

MODEL	**ORION O635CS** - *Apex Vision*		
STYLE	Thermal Clip-On Scope (no LRF)		
RELEASE	July 2026	**RRP**	$2,499

Guide outdoor




No Wi-Fi



DIMENSIONS	
LENGTH	99 mm (3.9")
WIDTH	73 mm (2.9")
HEIGHT	68 mm (2.7")
WEIGHT	285g (excl batt)

PROTECTION

IP67 (dustproof and water resistant to 1m for 30 mins.)

POWER

1 x 18500 Li-ion Battery (external)

SUMMARY

The **ORION O635CS** is a super-compact thermal clip-on tailored for medium range hunting, bringing precision in silence whilst integrating multiple intelligent features into a lightweight housing weighing ~ all at a tiny 285g!

Now featuring the new 2026 '**Apex Vision'** suite of technologies, including the 6th Generation *ApexCore S1* Sensor, *Nexus 1.0* Processing Platform and *HyperLight 2.0* AI Algorithm for unparalleled definition and clarity, the **O635CS** is a compact, light and capable partner to fix to any existing glass scope when thermal imaging is needed...

The **O635CS** attaches to a glass scope bell housing *(via a connecting clamp purchased separately depending upon the lens size of the scope being fixed to)* and turns a day scope into a thermal powerhouse, featuring G-Zero shutterless technology, an 1800m detection range, 640x512 resolution images at a NETD of <15mk for well-defined clarity out to a 225m shooting distance [depending on target size] ~ and a single, replaceable, rechargeable 18500 battery that delivers a respectable 7 hours of usage under normal conditions!

The **O635CS** delivers a tiny, handy thermal clip-on that can be attached across multiple scopes that offers the premium convenience of thermal imaging without the premium price tag.

KEY FEATURES

- **Thermal Sensor:** 640 x 512 Resolution operating at a NETD of less than 15mK (@25°C), (Pixel Pitch = 12µm.)
- **35mm**, F0.9 Lens for medium-range shooting, with a detection range out to 1800m.
- Wide **Field of View** = 12.5° × 9.4° / 22m × 17m window @ 100m.
- **Magnification** of 1x *(uses glass scope magnification, with up to approx. 15x before pixelation).*
- Backlit **viewing screen** of 0.49 inch; 1920 x 1080 resolution AMOLED.
- All-new **Apex Vision** architecture: *ApexCore S1 Sensor + Nexus 1.0 Platform + HyperLight 2.0 AI Algorithm.*
- **Tiny, Lightweight** design: Only 285g without, and 310g with the external battery.
- **7 hours** approximate run time using one external, 18500 Li-ion battery.
- **IP67** - dustproof and waterproof to 1m for 30 minutes.
- **7 Colour Palettes:** *White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia.*
- **6000J Rated:** Handles most hunting calibres including .308, .300 WIN Mag ~ and calibres up to 0.4.

TECHNICAL DETAILS [3 Year Unit / 10 Year Sensor Warranty]

MAIN:

Max. Resolution	640 x 512
Frame Rate	50 Hz
Pixel Interval	12µm
Response Waveband	8µm to 14µm
Lens (Focal Length)	35mm, F0.9
Min. Focusing Distance	3.5m
Field of View	12.5°×9.4°/22m×17m @ 100m
Magnification	1.0x *(the Clip-On uses the Scope Magnification)*
Zoom	n/a *(the Clip-On uses the Scope Zoom)*
Detection Range	1800m *(detect a 'shape' at a distance)*
Recognition Range	900m *(recognise the animal type)*
Identification Range	450m *(extra detail suitable for accurate identification)*

IMAGE DISPLAY:

Display Resolution	1920 x 1080
Viewing Screen Size	0.49 inch, AMOLED
Colour Palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia
Exit Pupil	6 mm
Eye Relief	20 mm
Diopter (Range)	n/a
Brightness Adjustment	Yes
Contrast Adjustment	Yes
Tone Adjustment	Cold, Warm
Software Platform - Nexus 1.0	Yes *(faster processing of data for quicker image response)*
AI Algoritm - HyperLight 2.0	Yes *(seamless blending of background imagery)*

GENERAL:

Protection Level	IP67 *(dustproof, waterproof to 1m for 30 minutes)*
Weight	285g *(without battery);* 310g *[with battery installed)*
Dimension	99 mm x 73 mm x 68 mm (3.9" x 2.9" x 2.7")
Working Temperature	From -20°C to +50°C (-4°F to +122°F);
Working Humidity	90% or Less

SYSTEM:

Audio Recording	No
Capture Snapshot	No
Record Video	No
Record Video Resolution	n/a
Hotspot	Yes
Standby Mode	Yes
Storage	No
PIP (Picture-in-Picture)	Yes
Hot Spot Wi-Fi	No
Hotspot 2.4 GHz/5 GHz Wi-Fi	n/a
Hot Track	Yes
Burn Prevention	Yes
Distance Measurement	Stadiametric Rangefinder Only - No LRF
Local Album	No
File Download	Download to PC using USB-C Cable (provided), or via **TargetIR** App

POWER:

Battery Type	1 x external 18500 Lithium-ion Battery
Battery Run Time (Hot Spot Wi-Fi Off)	7 hours of Continuous Running (@25°C)
Power Supply	5V 2A Twin-Battery Charger with USB Cable for AC Charging

WHAT'S IN THE BOX:

O635CS Device; Carry Bag; Accessory Bag; Lint-Free Cloth; Twin Battery Charger; 18500 Battery ×2; USB-A to USB-C Cable; Quick Start Guide; Warranty Card.