

Archon Vision Hound Series – Specification Sheet (Preview)

Superior AI + Fusion Vision Systems for Outdoors & Security

Overview

The **Archon Vision Hound Series** represents the frontier of mobile fusion-vision technology — purpose-built for professional hunters, outfitters, ranchers, search & rescue, and tactical operators. Each model combines **multi-spectral fusion imaging**, **AI edge computing**, and **6-D environmental telemetry** in a rugged, **plug-and-play vehicle-mounted system** designed for real-world field use.

Built on **Fusiome™**, Archon Vision’s fusion-intelligence engine, each Hound system fuses **thermal, visible, and environmental sensing** into one clear, real-time picture.

Note this is a preview version, the official released product specifications are subject to updates.

Model Comparison

Specification	Hound SE (Standard Edition)	Hound Pro (Professional Edition)	Hound Master (Master Edition)
Night Vision Technology	384 HD Passive Thermal	640 Ultra-HD Passive Thermal	1280 Ultra-HD Passive Thermal
Thermal Resolution	384×280	640×512	1280×1024
Detail Visibility	Feature-Level	Hair-Level	Hair-Level
Fusion Vision Resolution (Thermal + RGB)	1080×960	3840×2160	3840×2160
Fusion Detail Level	Feature-Level	Hair-Level	Hair-Level
Main Display Resolution	1080×960	3840×2160	3840×2160
Display Detail Level	Feature-Level	Hair-Level	Hair-Level
Max Frame Rate	25 Hz	50 Hz	50 Hz
Optical Zoom	20×	20×	20×
Digital Zoom	1×–16× Continuous	1×–16× Continuous	1×–16× Continuous
AI Edge Computing	Accelerated Edge Compute	NVIDIA GPU-Accelerated Edge Compute	NVIDIA GPU-Accelerated Edge Compute
Max Detection Range	1,500 m (1,640 yd)	4,000 m (4,375 yd)	4,000 m (4,375 yd)
Effective Recognition Range	200 m (219 yd)	1,000 m (1,094 yd)	2,000 m (2,188 yd)
Laser Rangefinder	None	1,000 m (1,094 yd)	2,000 m (2,188 yd)

Specification	Hound SE (Standard Edition)	Hound Pro (Professional Edition)	Hound Master (Master Edition)
Image Processing	Algorithmic Denoise & Enhance & Recognition	GPU-Accelerated Denoise & Enhance & Recognition	GPU-Accelerated Denoise & Enhance & Recognition
Stabilization	Mechanical + Algorithmic	Mechanical + Algorithmic	Mechanical + Algorithmic
Protection Rating	IP66 — Fully Waterproof & Dustproof	IP66 — Fully Waterproof & Dustproof	IP66 — Fully Waterproof & Dustproof
Optional Environmental Sensors	None	Wind Speed + Wind Direction	Wind Speed + Wind Direction + Temperature + Humidity + Pressure + Noise
Mounting Options	Suction Plate Suction Plate Mount / Vehicle Frame Clamp / Bolt	Suction Plate Mount / Vehicle Frame Clamp / Bolt	Suction Plate Mount / Vehicle Frame Clamp / Bolt



Archon Vision Hound SE



Archon Vision Hound Pro with Suction Mount Demo



Archon Vision Hound Master (more colors available)

Power & Connectivity

Item	Specification
Power Supply	12 V DC input — supports vehicle cigarette lighter , 12 V DC 2.5 mm / 5.5 mm adapter , and 100–250 V AC converter
Power Consumption	30 W (typical)
Local Wired Video Output	DP output for ultra-low-latency direct video feed
Local Wireless Connectivity	Built-in Wi-Fi AP supporting up to 4 simultaneous local streams
Long-Distance Networking	Optional Starlink or cellular module for global connectivity and network mesh formation
Control Interface	Web App (no installation needed) + Joystick Control for precision PTZ operation

Environmental & Physical

Item	Specification
Operating Temperature	−20 °C to +50 °C (−4 °F to 122 °F)
Storage Temperature	−40 °C to +70 °C (−40 °F to 158 °F)
Weight	≈ 4 kg (8.8 lb)
Certification	FCC Certified
Ingress Protection	IP66 — Fully Waterproof & Dustproof

Field-Grade Highlights for Power Users

- **Fusion Vision AI:** Thermal + RGB fusion delivers unmatched clarity through fog, dust, or total darkness.
- **Edge Computing:** On-board GPU processes every frame instantly — no cloud delay, no signal loss.
- **Rugged Mobility:** IP66 housing with multi-axis mechanical stabilization for vehicle use over rough terrain.
- **Situational Awareness:** 6-D weather station enables real-time wind vector and scent dispersion modeling (Hound Master).
- **Universal Power & Control:** Operates from any 12 V vehicle or AC adapter, accessible through browser or joystick control.
- **Multi-Device Sync:** Connect up to four Hound units to a single control hub for team operations or wide-area coverage.

- **Global Connectivity:** Extend range with optional Starlink or cellular modules for network mesh operation across large properties or remote sites.
- **Field-Serviceable Design:** Modular mount and standardized connectors simplify maintenance and deployment.

Fusiome™ in Plain Terms

You see more, sooner, and clearer.

Fusiome™ doesn't just show what's hot or cold — it understands what's happening. It reads the scene, filters noise, and shows where motion, temperature, or weather changes mean something, then guides your route without exposing yourself. That's what gives you an edge — whether you're spotting game, securing property, or saving lives.

Today: real-time decision support.

Tomorrow: trusted autonomy for patrols and mobile platforms.

Archon Vision Inc.

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Superior AI + Fusion Vision Systems for Outdoors & Security

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