

Transform poor visual data into actionable intelligence

What's the offer?

Computer vision-based AI systems depend on clear visual data. However, real-world environments introduce darkness, weather, glare, motion, pollution, and other conditions that degrade image quality. Poor input reduces model accuracy, confidence, and operational effectiveness.

ProHawk AI delivers patented, real-time, pixel-by-pixel computer vision restoration that improves visual clarity before data reaches downstream analytics and AI pipelines. Deployed on HPE infrastructure and powered by NVIDIA and Intel technology, the solution helps organizations improve detection, automation, situational awareness, and AI outcomes. It works across the electromagnetic spectrum, is plug-and-play, and deployable from edge to enterprise to cloud.

Industry use cases

Target industries and use cases:

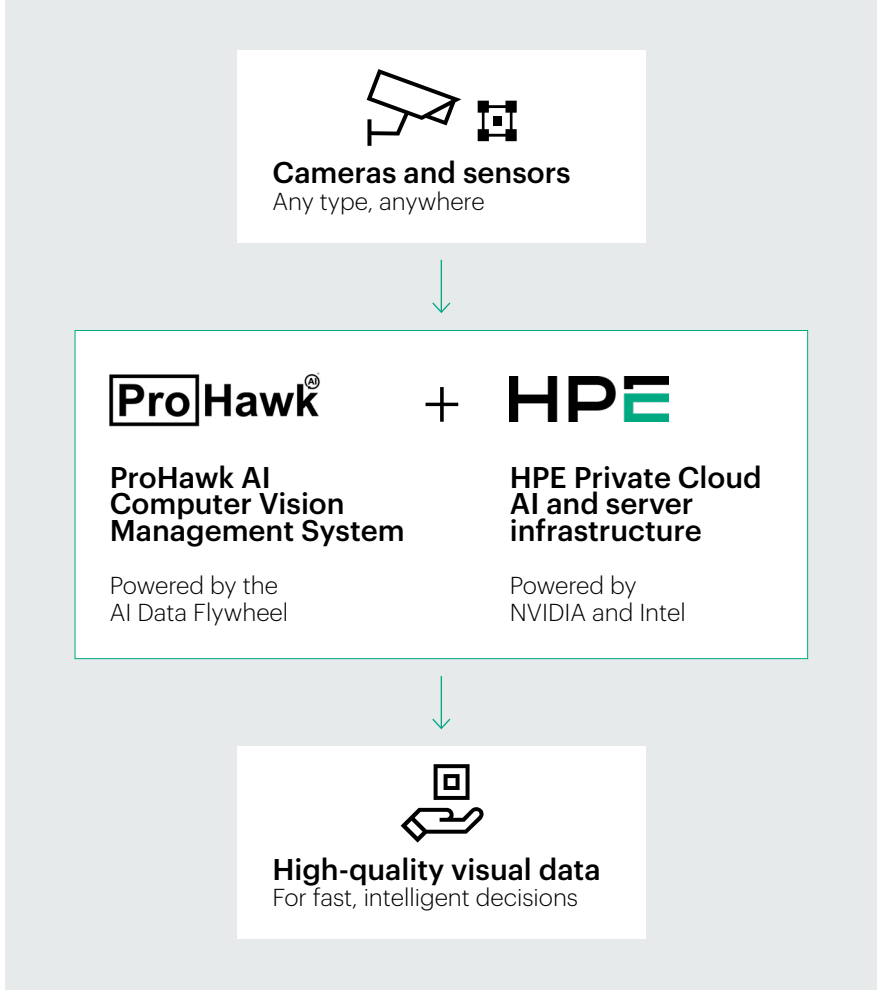
- **Defense:** Unmanned aircraft systems, space domain awareness, perimeter protection, border early warning, augmented reality systems in vehicles
- **Law enforcement and security:** Real-time information for crime centers, tactical operations, facial recognition, forensics, bodyguard protection, bodycams
- **Manufacturing:** Defect detection, safety, logistics optimization, materials inspection
- **Construction:** Security, building materials inspection, compliance
- **Smart cities:** Crowd management, early disaster warning, real-time information centers, parking optimization, smart buses
- **Energy:** Pipeline inspection, oilfield/offshore oil field protection, power line inspection
- **Retail:** Self-checkout, loss prevention, safety, logistics and inventory optimization
- **Agriculture:** Disease and anomaly detection, water dispersion, fire mitigation/early warning
- **Healthcare:** Medical imaging and diagnostics, operating room optimization, patient safety during medical procedures
- **Document retention:** Optical character recognition (75 languages), content digitalization, indexing
- **Robotics:** Robotic visibility
- **Airports:** Runway inspection, logistics optimization, wing and engine inspection, air traffic control, passenger security
- **Maritime:** Optimization of remotely operated vehicles, ship hull inspection, harbor visibility, underwater mineral detection, overboard recovery
- **Transportation:** Rail optimization, autonomous trains and vehicles, rail crossing management, improved trucking visibility, road condition monitoring
- **Infrastructure:** Stadium visibility/zone optimization, pedestrian safety, parking optimization

Business value

- Boost AI accuracy and confidence
- Increase operational visibility and real-time decision-making capabilities
- Accelerate time to value
- Lower development costs and maximize existing investments
- Adapt to any environment, edge to cloud

- **Up to 20x** farther visibility in challenging conditions¹
- **<3 ms** real-time visual restoration latency¹

¹ Source: <https://prohawk.ai/hpe/>



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Customer pain points and solution benefits

Pain point	Solution benefit
Degraded data limits decision making	Restore degraded data pixel by pixel at the edge to power the entire AI data flywheel and enable fast, intelligent decision-making that can save lives
Edge AI solutions can have large footprints	Use as few as 500 GPU CUDA cores and 5 W of power per video stream
Limited visibility from cameras and sensors, with slow delivery of data	Improve visibility by an average of 20x and accelerate information delivery by up to 80x
Expensive installation of new equipment	Extend the life of existing, lower-quality cameras by solving visibility challenges with software
Generative AI does not meet regulations concerning legal admissibility	Physically restore actual footage without guessing while meeting the Daubert standard for evidence ²
>50% of all AI initiatives fail, resulting in questionable ROI	Spend as little as USD 9.99 per video stream per month, potentially delivering ROI in less than a week, with very low investment risk
Implementing new solutions can bring vendor integration challenges	Solution-in-a-box: Fully validated, integrated (hardware and software) solutions built at an HPE factory. Right-sized configurations to fit any deployment
Unpredictable pricing models and the need to manage time-consuming, complex procurement processes	Ready-to-quote same day with competitive prices

² For more information, see www.law.cornell.edu/wex/daubert_standard.

Solution components

- The **ProHawk AI** Computer Vision Management System (CMVS) uses the AI Data Flywheel, a self-learning, continuous improvement engine that restores, detects, and optimizes visual data across distributed edge-to-cloud environments to generate actionable information. This solution is easy to integrate with existing infrastructure because it is standalone, plug-and-play, no-code, and sensor-agnostic.
- Customers can right-size their deployment by choosing a small, medium, large, or extra-large **HPE hardware configuration**. For example, a small deployment might use HPE ProLiant Compute servers, while larger deployments might take advantage of HPE Private Cloud AI. ProHawk AI is a validated solution in the HPE Unleash AI program.
- Reliable compute resources** for ProHawk include NVIDIA GPUs for real-time degraded data restoration and Intel CPUs for capabilities that do not require real-time latency, such as forensics.

More resources

[ProHawk AI homepage](#)
[ProHawk on HPE infrastructure webpage](#)
[ProHawk AI Applications Library](#)
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