



Experience the Power of Industry 4.0 with ScoutCam's Resilient Camera-as-a-Sensor™ Solution

ScoutCam's resilient Camera-as-a-Sensor™ solution opens a whole new opportunity for Predictive Maintenance based on IoT and other Industry 4.0 applications. These include harsh environments and tight locations for robotics solutions, production machines, and more. **ScoutCam** micro-cameras support all major industrial standards and are available as a customized solution. One can use a single micro-camera to detect image-changes, another can use two or more cameras to deliver stereo vision with measurements capabilities:

- 2D measurements
- 3D measurements with stereo vision
- Object-detection and counting/sorting
- Quality assurance and defects-detection

Why is Industry 4.0 Important?

It's transformational. Industry 4.0 is also known as the Fourth Industrial Revolution, IIoT (the Industrial Internet of Things), or smart manufacturing, which melds physical production and operations with smart digital technology. Whether transmission is wired or wireless, Industry 4.0's digital innovations promise to improve production, productivity, safety and quality with more intelligent processes that increase operational efficiency and the bottom line.

Industrial leaders in the automobile industry, aviation and energy utilities require Industry 4.0 visual inspection procedures optimized for today's complex machinery. And mindfulness of cost-performance factors is essential.

About ScoutCam

ScoutCam is a leading provider of customized visual solutions for organizations across a variety of industries in the form of highly resistant micro-cameras and supplementary technologies. ScoutCam devices are used across the medical, industrial (aerospace, aviation, automotive, energy and heavy industry/production), research and defense sectors.

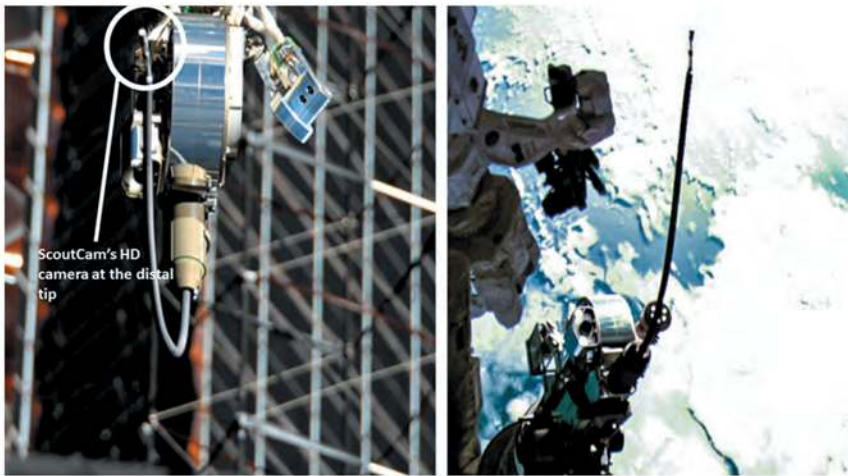
For Industrial Applications



ScoutCam's high-resolution technology has unique properties that have been authenticated by customers, such as NASA



Utilizing lightweight, tiny micro-cameras, ScoutCam technology is known for resiliency to harsh conditions such as vacuum, extreme temperatures, radiation and RF. Selected by NASA, ScoutCam's customized micro-camera solution was deployed in outerspace and played a key role in the recent Robotic Refueling Mission3 (RRM3) at the International Space Station (see photo).



ScoutCam's micro-camera integrated in NASA's RRM3 robotic arm distal tip; during its second International Space Station mission, it successfully inspected a narrow refueling channel via livestreamed high-definition video in the extreme conditions of outerspace

Key Benefits & Features

- Extremely small visualization technology (down to 1mm) operating in extreme temperatures (-127°C to +100°C) and other harsh environmental conditions
- Robust in significantly high vibration environments (validated by NASA for the harsh conditions of outer space)
- Proven radiation durability
- Support for common industrial standards for visualization solutions
- Saving on machine-maintenance costs resulting from advanced Industrial 4.0 predictive maintenance strategy and tiny critical components
- Integrated methods that combine process, climate and cost insights to successfully identify optimal industrial visualization solutions



- Long lightweight cable structures, up to 30m and a diameter of 0.58mm, for more efficient and economical visualization solutions - from power plants to aerospace engines or any industrial application with extremely narrow machinery
- Wireless transmission, zero-latency capability
- Integral illumination (Fiber Optic or LED) for high-quality imaging while maintaining small diameter for single and multi-use cameras, including borescopes of various types (rigid, semi-flexible, steerable and flexible)
- Audio and video options along with high-end video processors for high-quality live-streaming in an extremely compact form
- Micro CMOS sensors, proprietary and off the shelf, high resolution from 40k px to HD
- Proprietary optic designs and micro-lenses assembly
- Task-specific tools for procedures relevant for the industrial world

10 Reasons to Co-Develop with Us

- ☆ **Experience & Know-how**
Market-proven expertise in micro visualization applications and integration with complementing technologies, including customized solutions for government bodies such as NASA, global healthcare, as well as sensitive industrial applications
- 🔄 **Complete systems provider** delivering fully customized, plug-and-play solutions
- 🌐 **Global reputation** in micro-visualization
- ✅ **State-of-the-art facilities & compliance**
ISO 7/8 cleanrooms, testing capabilities with 1-micron accuracy that meet industry standards
- 🔊 **Seamless integration of sensors/modules** with other components (e.g., illumination, microphones) into the finished product, your Camera-as-a-Sensor™ solution
- 🏠 **Production** complete in-house assembly competency
- 🏆 **IP covering** 50 Active Patent assets, 29 of them granted
- ⚙️ **Optimal cost / performance**
Resulting from a profound understanding of cost structures and superior final units' cost/performance based on long-term relationships with carefully selected global suppliers and sub-contractors
- 💡 **Ingenuity & innovation**
Agility, creativity, swift processes all assure you receive the optimal solution





**Complex processes and standards?
Challenging operating conditions?
Contact ScoutCam to learn more about
Camera-as-a-Sensor™ solutions for your
industrial needs**

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