



Hexagon TeleOp

The turnkey solution for remotely operating any make, model or year of heavy machinery in your mine

What is Hexagon TeleOp?

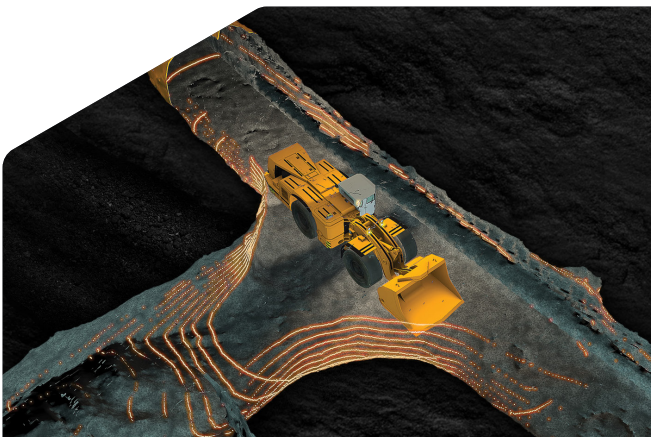
Hexagon TeleOp is market-leading remote-control technology designed for heavy machinery and equipment. Using TeleOp, heavy machinery can be operated from a control station on the surface or a safe area underground, regardless of distance.

TeleOp allows you to put a safe distance between miners and hazardous working conditions while getting more done in less time and at a lower cost using the heavy machinery you already own.

Highlights

- Offers flexible options, including bring-your-own digital network integration or our plug-and-play backbone network. Designed to be reliable, scalable and easy to install and maintain.
- Solution design team ensures backward compatibility with future updates and changes for seamless integration and continued performance across existing systems and technologies.

- Underground Wi-Fi and digital network are part of the bundle, which can also be leveraged for other operational use. You have full control of installed networks.
- 3D SLAM (simultaneous localisation and mapping) technology helps navigate complex and dynamic environments without human intervention, providing precise location and mapping information for autonomous equipment underground.



Key Features and Benefits

- **Enhanced safety:** Drastically reduces the risk of injury and accidents, by removing operators from hazardous environments
- **Increased productivity:** Enhances overall productivity, as the need for operator breaks or shift changes is reduced
- **Brand-agnostic interoperability:** Seamlessly integrates with any machine, make, model or year, ensuring flexibility and ease of integration into existing operations
- **Autonomy:** Provides a scalable pathway to autonomous operations
- **Advanced control:** Features intuitive control interfaces, real-time feedback, and precise manoeuvrability to empower operators to be accurate and efficient
- **Network integration:** Leverages a digital-network backbone and 20+ years of proven success in Wi-Fi and LTE technologies for seamless communication between control station and machinery
- **Scalability:** Designed to accommodate both small and large-scale operations
- **Cost-effectiveness:** Lowers operational use. You have full control of installed networks

Future-proofed hardware engineered for the next evolution of autonomy

- **Advanced Processing Capabilities:** Equipped with cutting-edge onboard processing power, including NVIDIA GPUs, TeleOp can handle complex algorithms and large datasets, essential for future autonomous applications.
- **High-Resolution GMSL Cameras:** Integrates Gigabit Multimedia Serial Link (GMSL) cameras to support high-speed data transmission with minimal bandwidth consumption, allowing for scalable and efficient video processing, crucial for autonomous systems.
- **Robust Sensor Suite:** Incorporates a comprehensive range of sensors, including global navigation satellite system (GNSS) and other critical components, to ensure precise navigation and situational awareness.
- **Compliance with Emerging Standards:** Adheres to the latest industry standards and is designed to accommodate updates, ensuring compatibility with new autonomous technologies and protocols as they emerge.
- **NVIDIA Integration:** Leverages NVIDIA's state-of-the-art GPUs to benefit from unparalleled processing power and AI capabilities, positioning it to meet the demands of the most sophisticated autonomous applications.
- **Long-Term Support and Upgradability:** Includes long-term support and regular firmware updates, ensuring that our hardware remains at the forefront of technological advancements, providing clients with a secure and forward-compatible solution.

Integrated life-of-mine solutions

Having one technology partner for the life of your mine is a superpower in the face of modern mining challenges. Our integrated, data-driven solutions help eliminate the need for disparate products across workflows within mine planning, fleet management, monitoring, safety and beyond. With Hexagon, you gain a trusted partner backed by over 50 years of expertise who remains focussed on an autonomous future both above and underground.

This offering includes solutions to support:



Evaluation,
Planning
& Design



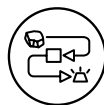
Drill & Blast



Load & Haul



Survey &
Monitoring



Processing



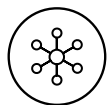
Reclamation



Safety



Autonomous
Operations



Insights

Connect with us

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