



DRILL SENTRY

CONTINUOUS SAFETY MONITORING



FiComm Technologies
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Protecting personnel from operating equipment, such as underground drills, is an essential part of mining operations and is mandatory in Canada. This has traditionally been accomplished by erecting physical barriers, such as fences around drills and other rotating equipment. This process is time consuming and must be repeated each time equipment is moved, and specific site requirements, such as the need to provide access past the equipment, may make this approach difficult.

Now, there is a better solution. *Drill Sentry* uses machine AI vision technology to continuously monitor the area around operating equipment and immediately stops the machine if anyone enters a defined exclusion zone. Utilising a combination of thermal imaging and high definition video, *Drill Sentry* uses a detection approach similar to that used by self driving equipment.



The system operates continuously, in real time, to detect people or machinery entering the danger zone. Unlike other systems that use lasers or other technology to detect people crossing a defined perimeter or “virtual fence”, *Drill Sentry* provides continuous monitoring rather than detecting an intrusion event. This means the system cannot be defeated by resetting it after somebody has crossed the perimeter, therefore monitoring is ongoing.

Setup is simplified when equipment is moved, since all that is required is to position the camera. No physical barriers or perimeter sensors need to be set up. Operation is fully integrated into the machine control console, resulting in less time setting up and more time drilling.



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Drill Sentry provides a fully engineered and approved solution to operator protection around rotating equipment. In addition, it provides WiFi connection to permit full remote monitoring and data collection.

The fully tested and approved *Drill Sentry* system provides a new and more effective approach to protecting operators around rotating equipment that eliminates the need for difficult to set up physical barriers.

Drill Sentry is fully tested and certified in accordance with applicable safety standards, ISO 13849-1/2 & CSA Z432

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