**ENHANCING SITE SAFETY**

The idea behind Detect is simple: the more equipment operators know about the working environment around them, the more safety they will be able to operate their equipment. Detect works to reduce the chances for operator errors and can help to improve overall mine site safety wherever it is implemented.

**IMPROVING OPERATIONAL EFFICIENCY**

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DETECT INCREASES AWARENESS OF THE ENVIRONMENT AROUND MACHINES AND EQUIPMENT, RESULTING IN ENHANCED MINE SITE SAFETY AND GREATER OPERATOR CONFIDENCE.

Operators in the cabs of large mining equipment often cannot see if another machine or vehicle is too close for safe operation. Detect helps alleviate this potential safety hazard and can also be configured to provide valuable information about site conditions and other equipment or assets in the area.

At the most basic level, Detect enhances your operators’ awareness of the immediate environment around their equipment. A simple touch screen display alerts operators when objects are detected near the machine. The system allows a quick visual check of these areas whenever the operator wants one.

Additional capability package enables Detect to alert the operator to pre-programmed avoidance zones, known site hazards and assets with Global Navigation Satellite Systems (GNSS) tags. Positional information from Detect can also provide valuable feedback to central office systems and mine site managers.

Note: Using this system does not replace the basic safety precautions and procedures that you must follow every day. For limitations, please consult your Operations and Maintenance Manual.

DETECT CAPABILITY PACKAGES

- Vision offers multiple camera capabilities, allowing operators to manually select the view or views they need on the in-cab display to see what is happening close to their machines.
- Object Detection adds radar capabilities that automatically detect hazards such as other equipment or vehicles within critical zones around the machine—in front, at the rear or within the turning radius on each side, depending on the vehicle. Zones can be automatically displayed depending on the specific application of the vehicle. For example, a forward view may be displayed when the machine is in drive or a rear view when it is in reverse.
- Proximity Awareness adds GNSS capabilities that allow Detect to display the locations of other equipment and assets beyond the reach of the radar. It also allows pre-programmed information—such as avoidance zones, fixed plant infrastructure and more—to be displayed in the cab.
- Personnel adds capabilities for tracking individual GNSS tags that can be worn, placed in light vehicles or attached to portable equipment. The system gives these tags an electronic presence within the digital mine site environment, allowing equipment operators to see exactly where assets or people are and instantly share that information with other equipment via the office application.

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DETECT FLEET

- FLEET
- TERRAIN
- DETECT
- HEALTH
- COMMAND

DETECT :: CAT MINESTAR SYSTEM

With in DETECT, you can choose from a number of capability packages to configure a system for the unique needs of your site. Completely scalable and fully integrated with other CAT® MINESTAR™ system capability sets, DETECT can grow with you while helping enhance overall site safety.

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VISION

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