IS1000
Infrared Imaging System

The IS1000 Imaging System
is a sealed infrared imaging system "ruggedized" to operate in severe environments characterized by airborne debris, shock, and vibration. Designed for installation on mining equipment such as shovels, haul trucks, rock crushers, and draglines, the imager converts the heat signatures of objects in its field of view to images displayed on an in-cab monitor.

The Phoenix Difference

Multi-plane, free-floating diaphragms isolate imager from shock and vibration

Marine-grade, low copper content aluminum housing designed to protect against airborne debris

Impact-resistant, hard-carbon coated germanium lens

Steel mounting bracket on shock mount base

Increases Safety & Productivity
The IS1000 helps equipment operators see better in dust, smoke, and foul weather conditions. This speeds reaction and loading time, reduces down time, and enhances safety in the work zone.

Rugged Design
The IS1000 is designed to endure the type of shock, vibration and debris a fixture might encounter when installed on a dragline, haul truck, rock crusher, or shovel. This is accomplished with a multi-plane, free floating diaphragm that isolates the imager, a shock-absorbing base mount, and an IP66 dust tight imager housing.

Advanced Technology
The thermal imager at the heart of the IS1000 works by detecting the infrared, or thermal, energy that every object emits by virtue of molecular motion. This information, including the size and shape of the object, is processed and transformed electronically into a visual image. Unlike "active" IR imagers, which operate closer to the visible spectrum, the "passive" imager in the IS1000 requires no emitter and can operate in total darkness.

Customization
As with many Phoenix products, the IS1000 can be customized for optimal performance in unique applications.

PHOENIX®

Durability by Design