

# Rapidly deployable video for underground areas

## Introducing our most versatile 360-degree camera:

Genex's OmniEye WellCam™ fits in the palm of your hand and weighs less than six ounces. Fully weatherproofed and mobile, it can go anywhere!

Imagine having the capability to extend your eyes hundreds of feet below surface, with complete 360-degree coverage at all times. The WellCam enables faster inspection of holes, building rubble, wells, and infrastructure.

Using the WellCam's detachable video/power rope, operators can easily deploy this powerful sensor into deep areas in mere seconds. Constant panoramic feedback is available by viewing the video with a mobile display, so there is no need to stop the descent.

Field-tested by troops in Afghanistan, OmniEye WellCam gives your personnel the edge in mission-critical situations.



OmniEye WellCam is small enough to quickly navigate narrow gaps in collapsed buildings during an emergency. A simple design makes it easy to use.

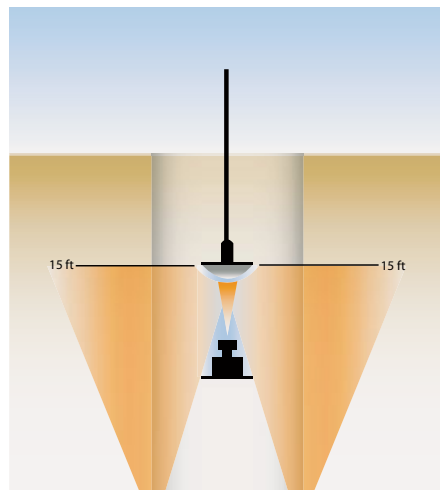


Illustration: Genex's patented OmniEye technology uses a mirror to view in a complete 360-degree panorama.

## Applications

- ◆ **Search and Rescue** - Enables rescuers to look in places where no person can go and to instantly view a complete 360-degree image. Ideal for cost-effective, fast, and mobile exploration of collapsed buildings and wells.
- ◆ **Surveillance** - Mounts discreetly and quickly in situations where normal-sized cameras or time-consuming setup are not practical.
- ◆ **Threat Detection** - Provides breakthrough battlefield vision for exploration of wells, fox holes, bunkers, and urban combat situations. Operates with standard military batteries and portable video displays.
- ◆ **Machine Vision/Robotic Platforms** - Attaches to robotic vehicles or systems requiring machine vision capabilities. Standard video output allows easy integration with any embedded OS or control system.

### Applications:

**First Response**

**Search & Rescue**

**Well Searching**

**Pipeline  
Maintenance**

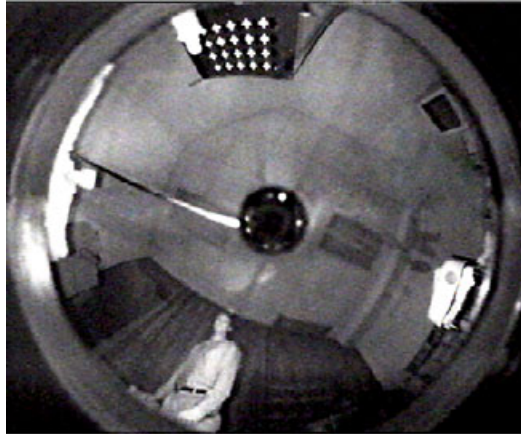
**Machine Vision**

**Surveillance**

**Threat Detection**

## Features and Benefits

- ◆ **High Definition 360-Degree Image:** Provides continuous viewing of a complete panoramic area with no special equipment. Provides the ability to survey recessed areas more efficiently. 580 TV-line output in standard NTSC.
- ◆ **Totally Portable and Mobile Design:** Lightweight and compact construction fits easily into military backpacks or search-and-rescue kits.
- ◆ **Battery-Powered Operation:** Draws less than 12W power through a combined video/power cable. Compatible with standard 12VDC military batteries. Connects to low-power mobile LCD screens.
- ◆ **Viewing at over 20ft in Total Darkness:** Built-in lighting provides powerful, high-efficiency illumination of the camera's surroundings to a minimum of 20 feet.
- ◆ **Multiple Cable Lengths:** Plugs into video/power cables of varying lengths, up to 250 feet. One camera unit can handle multiple depth scenarios.
- ◆ **Low Cost:** One sensor saves lives and saves time during critical operations, enabling on-site personnel to work more effectively.



Dark Environments: This test photo shows that the OmniEye WellCam can easily detect a human at a distance greater than 20 feet away.

## Applications:

- First Response**
- Search & Rescue**
- Well Searching**
- Pipeline Maintenance**
- Machine Vision**
- Surveillance**
- Threat Detection**

## Specifications

**Field of View:** 360-degree continuous video  
**Illumination Distance:** 0.6 lux at 15 ft.  
**Video Resolution:** 580 TV Lines Black/White NTSC  
**Light Sensitivity:** Down to 0.05 lux  
**Weight:** 9 oz.  
**Height:** 7"  
**Diameter:** 2.5"  
**Enclosure:** Weatherproof acrylic tubing, high optical translucency  
**Cable Interface:** 4-pin MIL STD, combined video and power  
**Signal Strength:** Up to 250 feet without amplifier  
**Power Consumption:** 6W continuous  
**Lighting:** One high-efficiency incandescent bulb, 5000 hrs.  
**Voltage:** 12VDC  
**Environmental:** 15-130F, 70% relative humidity, non-condensing

## Options

- ◆ **Rugged, Portable LCD Display**  
High-contrast, compact NTSC-video display for viewing sensor data on location.
- ◆ **Detachable Video/Power Cable**  
Durably-constructed combined video and power supply cable, available in multiple lengths and shielding configurations.
- ◆ **Rugged Carrying Case**  
Waterproof, padded custom case for camera, LCD display, and cabling.
- ◆ **OmniVision Advanced Software System**  
Real-time video analysis system including rugged laptop and software for recording, motion detection, digital zooming, and panoramic unwrapping.

## About Genex Technologies

Founded in 1995, Genex Technologies is a world leader in 3D imaging, 3D facial recognition, and intelligent surveillance. Genex provides simple, practical solutions to some of today's most challenging imaging needs.