

# SECOND SIGHT<sup>®</sup> TC

Gas Cloud Tracking System with Infrared Camera



## LONG RANGE GAS LEAK DETECTION

- ▶ OPTICAL GAS IMAGING WITH AUTOMATIC DETECTION
- ▶ MULTIPLE GAS DETECTION CAPABILITY
- ▶ 24/7 SURVEILLANCE

## APPLICATIONS

- ▶ FIXED SURVEILLANCE FOR EARLY WARNING
- ▶ TURNAROUNDS FOR LEAK DETECTION

# SECOND SIGHT® TC

## Gas Cloud Tracking System

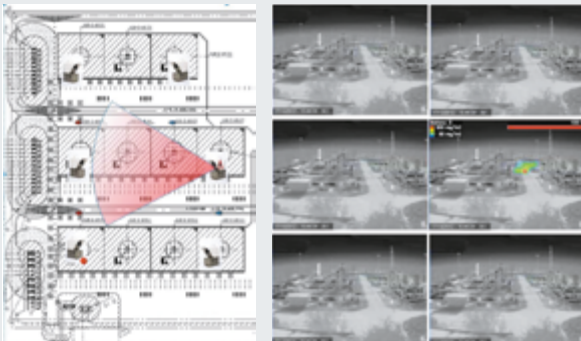


### AN INNOVATIVE CONCEPT FOR INDUSTRIAL SAFETY

**SECOND SIGHT® TC** detects the presence of gas cloud at a distance up to several hundreds of meters. This instrument makes visible emissions that may otherwise be invisible to the naked eye. In case of toxic or explosive gas leak, the gas cloud is automatically detected, depicted as an overlay on the infrared image and monitored in real time. Network of multiple cameras enables the tracking of the gas cloud in the industrial area.

### FIXED SURVEILLANCE FOR EARLY WARNING

**SECOND SIGHT® TC** provides key information directly to the central control room with a real time visual representation of the gas cloud and its motion.



Second Sight® TC implemented in a gas cloud tracking Network for 24/7 surveillance



#### Second Sight® TC IECEX Cabinet configuration:

The Second Sight® TC is integrated in a pressurized stainless steel enclosure for installation in hazardous area (zone 2). The certification is type Ex Pz IIC T4 Gc. In option, a shelter protects the system from strong environment and the temperature is regulated by Vortex.

### EXPERTISE FROM BERTIN TECHNOLOGIES

Bertin Technologies supplies the Second Sight® TC and custom supervisor software. We provide the expertise throughout all stages of the design process, advise the optimum location and positioning and the configuration based on application data. Bertin Technologies supports the installation, commissioning and test of the complete solution and ensures the operability and reliability of the gas cloud tracking system.

### TURNAROUNDS FOR LEAK DETECTION

**SECOND SIGHT® TC** is deployed temporary to enhance the efficiency of leak detection, as well as protecting critical infrastructure or worker. Multiple applications are proposed, in particular for leak detection and repair, exploration and drilling, piping surveillance, perimeter-fence monitoring, discharge.



- 1- Identification
- 2- Concentration in mg/m<sup>3</sup>
- 3- Gas cloud
- 4- Alarm
- 5- History of events



#### Second Sight® TC Nomad operation configuration:

Second Sight® TC provides temporary continuous monitoring during turnarounds, where cameras can be moved throughout the day to focus on specific sites. Operated with battery, laptop and tripod, Second Sight® TC is used by field team to check and troubleshoot potential gas leakage either outside of the target areas or for a specific mission.

### PERFORMANCES



**Range distance:** < 500m

**Gas X detection:** Adapted for detection of mixed, impure or unexpected gases.

**Detection from database:**

Hydrocarbons: *Propan, Butan, LPG, LNG etc.*

High hazard level TIC: *Ammonia, Hydrogen cyanide, Phosgene, Sulfur dioxide etc.*

### BERTIN TECHNOLOGIES

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