

# Second Sight® TC: Stand-off chemical gas detection

## An innovative concept for industrial security

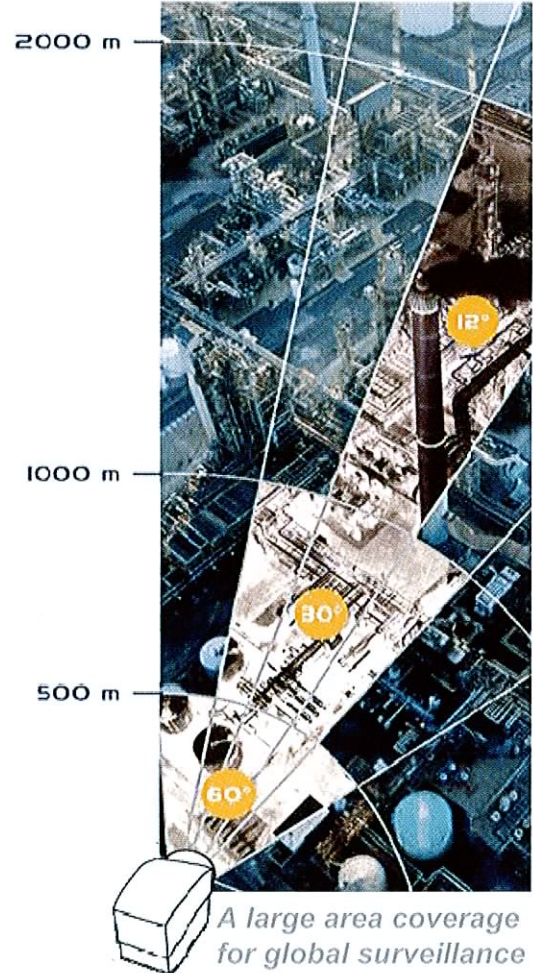
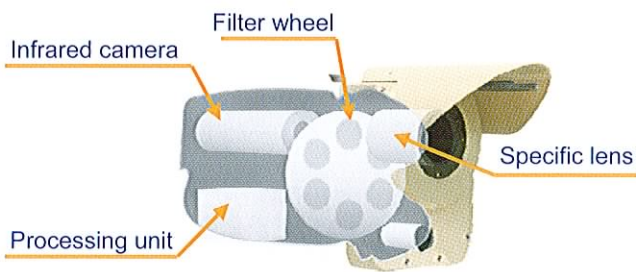
Bertin Technologies, specialized in the design and supply of innovative systems for Industry, Defence and Healthcare, has developed a stand-off gas detection system using an infrared spectro imager. This system can monitor the size of a gas cloud and its evolution in real time.

This technology was developed several years ago to meet the requirement for an early detection alarm caused by a chemical threat.

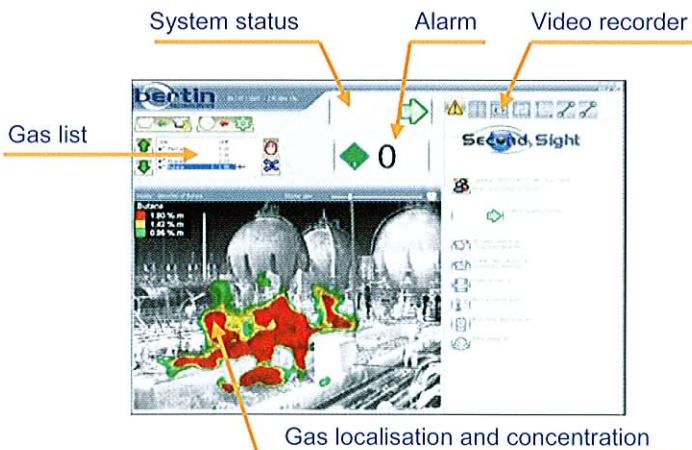
With day and night efficiency of up to 2 km, this process is able to detect critical toxic industrial compounds (VOC and TIC) and explosive gases. Reliable, almost maintenance free, Second Sight TC patented process provides 24/24 real time warning and monitoring of gas leakage.

Second Sight's compactness, simplicity of use and maintenance, as well as its cost-effectiveness, make it attractive safety and security for monitoring on Oil, Gas and Chemical industry sites.

### Uncooled microbolometer infrared imager



### Friendly-user software interface with real time monitoring



### Specifications

### Second Sight® TC

Detected gases	<ul style="list-style-type: none"> <li>▪ Volatile Organic Compounds (VOC)</li> <li>▪ Toxic Industrial Chemical (TIC)</li> </ul>
Detection range	1 km (nominal) - up to 2 km (option)
Field of view	30° x 24°
Detection time	one picture every 2 s
Alarm	within 5 s
Weight	18 kg (40 lbs)
Dimensions	670 mm x 280 mm x 330 mm (26.4" x 11.0" x 13.0")
Temperatures	-20°C to 55°C (operation) -20°C to 70°C (storage)
Principle	Uncooled LWIR camera