

Global Leak Detection and Repair Market: Analysis
By Component (Equipment, and Services), By
Product (Handheld Gas Detectors, UAV-Based
Detectors, Vehicle-Based Detectors, and Manned
Aircraft Detectors), By Technology (Volatile
Organic Compounds (VOC) Analyzer, Optical Gas
Imaging (OGI), Acoustic Leak Detection,
Ambient/Mobile Leak Monitoring, Laser
Absorption Spectroscopy, and Audio-Visual-
Olfactory Inspection), By Region Size and Trends
with Impact of COVID-19 and Forecast up to 2029

January 2025



Global Leak Detection and Repair Market: Coverage

Executive Summary and Scope

Introduction/Market Overview

Global Market Analysis

Regional Market Analysis

Impact Of COVID 19

Dynamics

Competitive Landscape

Company Profiling

Global Leak Detection and Repair Market: Coverage

Scope of the Report

Attributes	Details
Title	Global Leak Detection and Repair Market: Analysis By Component (Equipment, and Services), By Product (Handheld Gas Detectors, UAV-Based Detectors, Vehicle-Based Detectors, and Manned Aircraft Detectors), By Technology (Volatile Organic Compounds (VOC) Analyzer, Optical Gas Imaging (OGI), Acoustic Leak Detection, Ambient/Mobile Leak Monitoring, Laser Absorption Spectroscopy, and Audio-Visual-Olfactory Inspection), By Region Size and Trends with Impact of COVID-19 and Forecast up to 2029
Coverage	Global and Regional
Regional Coverage	North America (The US, Canada, and Mexico), Europe (Germany, UK, France, Italy, and rest of Europe), Asia Pacific (China, Japan, South Korea, India, and rest of Asia Pacific), and rest of the world.
Market Influencing Variables	Growth Drivers, Challenges, Market Trends
Forecast Period of Market	2024-2029
Competition in the Market	Fragmented
Key Players	ABB Group, Emerson Electric Co., Honeywell International Inc., Teledyne Technologies Incorporated (Teledyne FLIR LLC), Yokogawa Electric Corporation, KROHNE Messtechnik GmbH, Atmos International Ltd, SeekOps Inc., TTK, Aeris Technologies, Inc., BRIDGER PHOTONICS, and ClampOn AS

Global Leak Detection and Repair Market: Coverage

Executive Summary

Leak detection and repair (LDAR) is a process of identifying and fixing air, water, gas and other types of leaks in gas & oil pipelines, tanks, and other equipment. Global leak detection & repair market is associated with providing technologies, equipment, services, and solutions designed to identify and mitigate leaks of harmful substances, such as volatile organic compounds (VOCs), hazardous gases, and liquids, from industrial equipment, pipelines, and facilities. The global leak detection and repair market value stood at US\$20.67 billion in 2023, and is expected to reach US\$27.15 billion by 2029. The market is expected to grow at a CAGR of 4.65% over the projected period of 2024-2029.

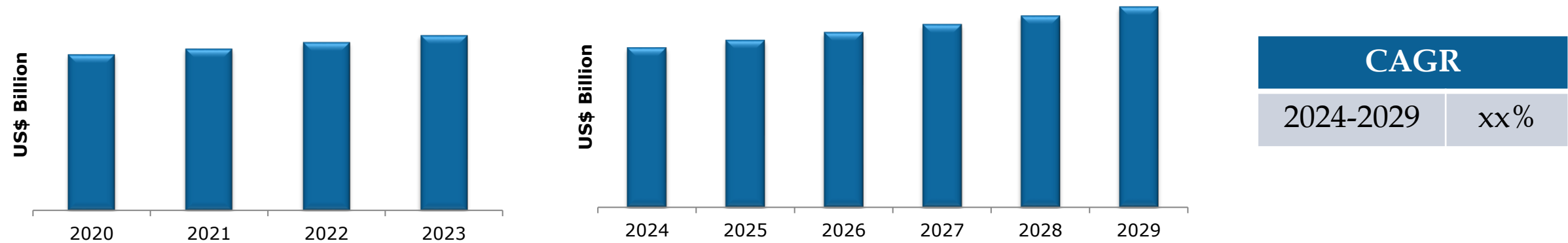
The global LDAR market is segmented on the basis of component (equipment, and services), product (handheld gas detectors, UAV-based detectors, vehicle-based detectors, and manned aircraft detectors), and technology (volatile organic compounds analyzer, optical gas imaging, acoustic leak detection, ambient/mobile leak monitoring, laser absorption spectroscopy, and audio-visual-olfactory inspection). On the basis of component, equipment is the fastest growing segment of global leak detection and repair market owing to positive growth in pipeline infrastructure and production facilities, increasing global focus on reducing carbon footprints, ongoing integration of robotics, presence of strict regulatory compliance for emission reduction, positively growing end user industries, rising energy projects in developing economies, and increasing demand for leak detection and repair (LDAR) equipment among scientists. On the basis of region, North America held the largest share, and Asia Pacific is the fastest growing region of global LDAR market in the forecasted period of 2024-2029.

The growth of global LDAR market was negatively impacted during the period 2019-2020. Lockdown policies imposed by the government to prevent the spread of the virus forced LDAR manufacturing and oil & gas transporting industries to either shut down or run low on production capacity, resulting in temporary shutdowns as well as lower production and demand of LDAR units during the period, 2019-2020.

The global LDAR market has increased from 2020-2023 and the projections are made that the market will continue to rise in the next five years i.e. 2024-2029. The demand for LDAR systems has been rising significantly in recent years, owing to expanding global energy demand and consumption, growing preference for natural gas, rising demand among utility sector, favorable government policies and initiatives, etc. Further, the market is expected to grow at a rapid pace, driven by, increasing integration of robotics and drones, rising focus on preventing environmental damage, growing awareness of resource conservation, ongoing technological advancements, etc. Yet the market faces some challenges such as high capital investment, growing demand for renewable energy, etc.

Leak Detection and Repair Market: Global Analysis

Global Leak Detection and Repair Market by Value



Global leak detection and repair market was valued at US\$... billion in 2023 and is anticipated to reach up to US\$... billion by 2029 from US\$... billion in 2024, with a CAGR of xx%.

Leak Detection and Repair Market: Global Analysis

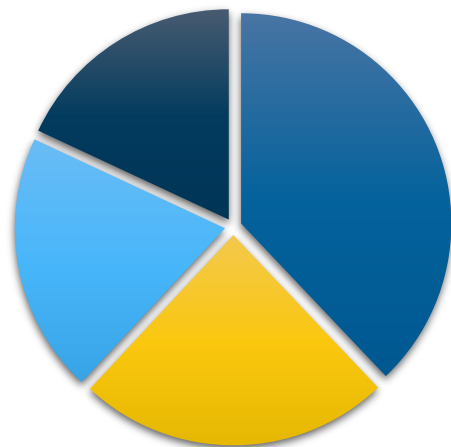
Global Leak Detection and Repair Market by Component; 2023



Component	Share (2023)
Services	xx%
Equipment	xx%

Leak Detection and Repair Market: Global Analysis

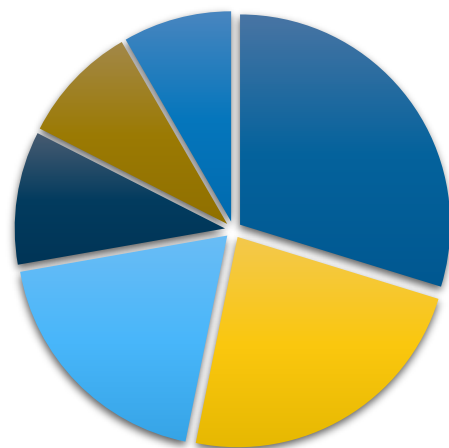
Global Leak Detection and Repair Market by Product; 2023



Product	Share (2023)
Handheld Gas Detectors	xx%
UAV-based Detectors	xx%
Vehicle-based Detectors	xx%
Manned Aircraft Detectors	xx%

Leak Detection and Repair Market: Global Analysis

Global Leak Detection and Repair Market by Technology; 2023



Technology	Share (2023)
Volatile Organic Compounds (VOC) Analyzer	xx%
Optical Gas Imaging (OGI)	xx%
Acoustic Leak Detection	xx%
Ambient/Mobile Leak Monitoring	xx%
Laser Absorption Spectroscopy	xx%
Audio-visual-olfactory Inspection	xx%

Leak Detection and Repair Market: Global Analysis

Global Leak Detection and Repair Market by Region; 2023



North America, xx%

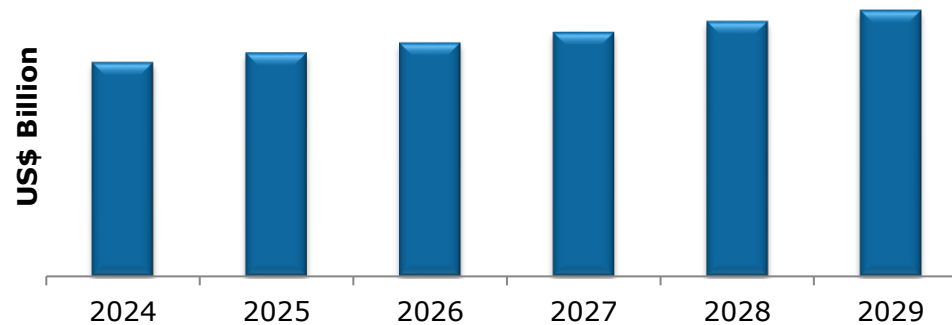
Europe, xx%

Asia Pacific, xx%

Rest of the World, xx%

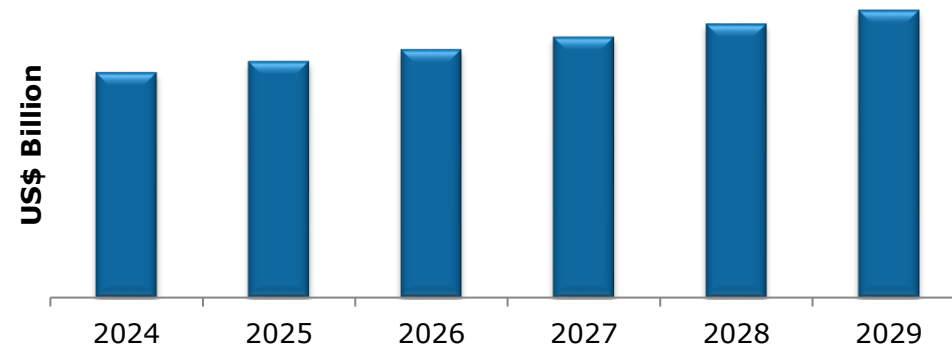
Leak Detection and Repair Market: Component Analysis

Global Leak Detection and Repair Services Market by Value



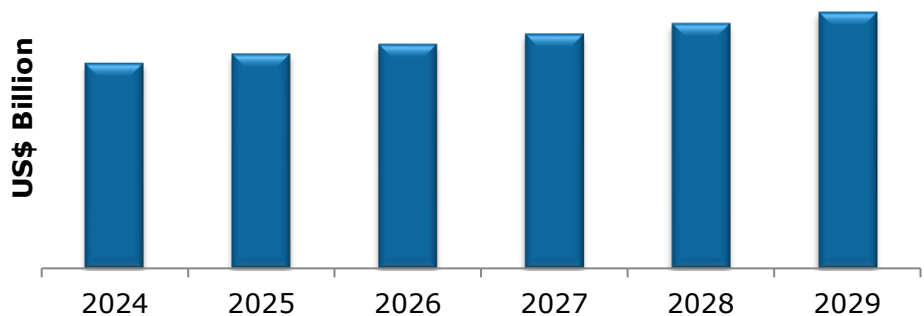
Component	CAGR (2024-2029)
Services	xx%
Equipment	xx%

Global Leak Detection and Repair Equipment Market by Value

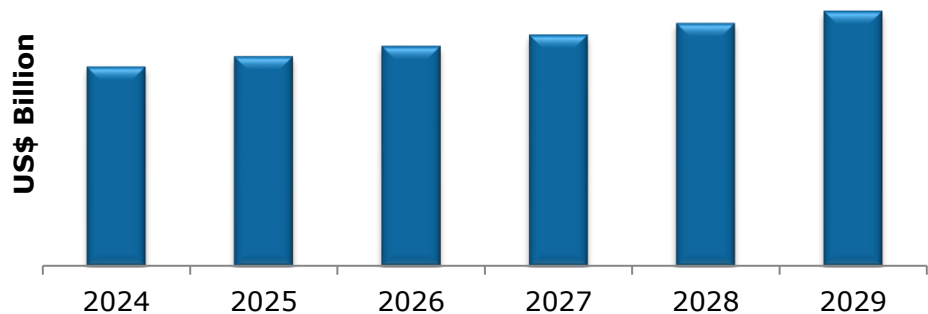


Leak Detection and Repair Market: Product Analysis

Global Handheld Gas Leak Detection and Repair Market by Value



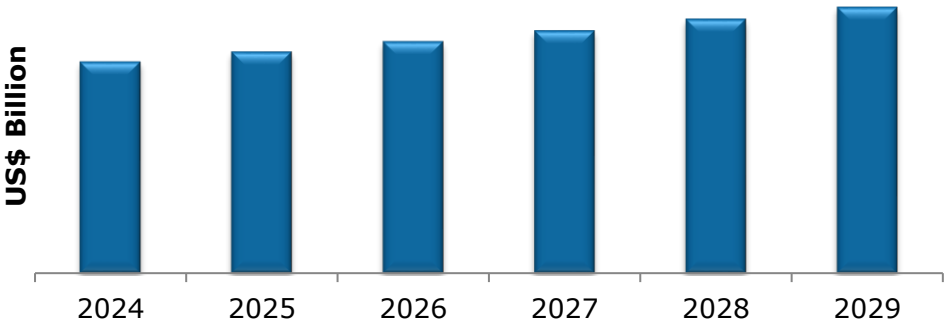
Global UAV-Based Leak Detection and Repair Market by Value



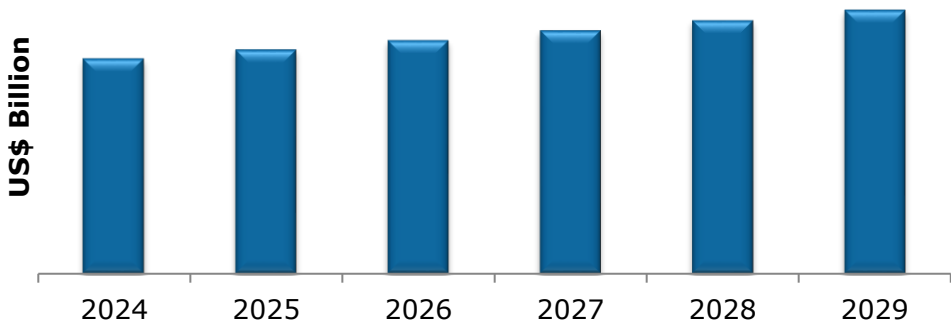
Product	CAGR (2024-2029)
Handheld Gas Detectors	xx%
UAV-based Detectors	xx%
Vehicle-based Detectors	xx%
Manned Aircraft Detectors	xx%

Leak Detection and Repair Market: Technology Analysis

Global Volatile Organic Compounds (VOC) Analyzer Leak Detection and Repair Market by Value



Global Acoustic Leak Detection and Repair Market by Value



Technology	CAGR (2024-2029)
Volatile Organic Compounds (VOC) Analyzer	xx%
Optical Gas Imaging (OGI)	xx%
Acoustic Leak Detection	xx%
Ambient/Mobile Leak Monitoring	xx%
Laser Absorption Spectroscopy	xx%
Audio-visual-olfactory Inspection	xx%

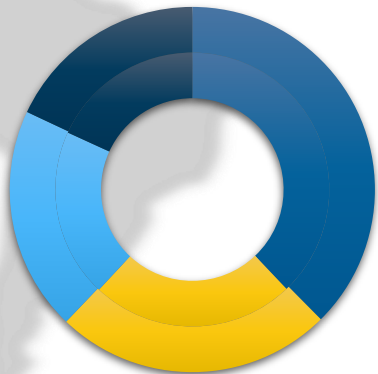
North America Leak Detection and Repair Market: An Analysis

North America Leak Detection and Repair Market by Region; 2023



Region	Share (2023)	CAGR (2024-2029)
The US	xx%	xx%
Canada	xx%	xx%
Mexico	xx%	xx%

North America Leak Detection and Repair Market by Product; 2023 & 2029



Product	Share (2023 & 2029)
Handheld Gas Detectors	xx%
UAV-based Detectors	xx%
Vehicle-based Detectors	xx%
Manned Aircraft Detectors	xx%

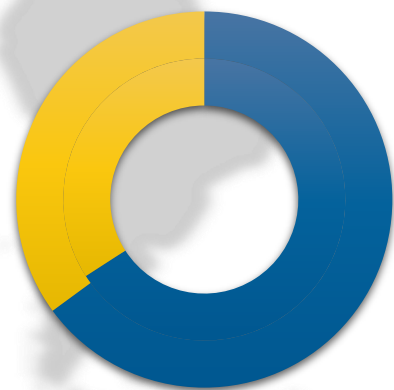
Asia Pacific Leak Detection and Repair Market: An Analysis

Asia Pacific Leak Detection and Repair Market by Region; 2023



Region	Share (2023)	CAGR (2024-2029)
China	xx%	xx%
Japan	xx%	xx%
India	xx%	xx%
South Korea	xx%	xx%
Rest of Asia Pacific	xx%	xx%

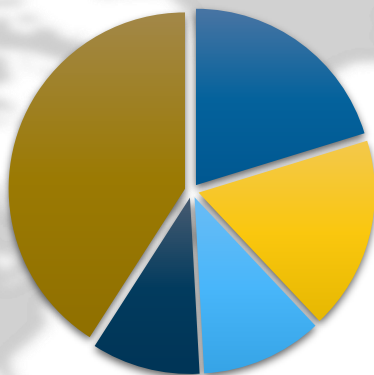
Asia Pacific Leak Detection and Repair Market by Component; 2023 & 2029



Component	Share (2023 & 2029)
Equipment	xx%
Services	xx%

Europe Leak Detection and Repair Market: An Analysis

Europe Leak Detection and Repair Market by Region; 2023



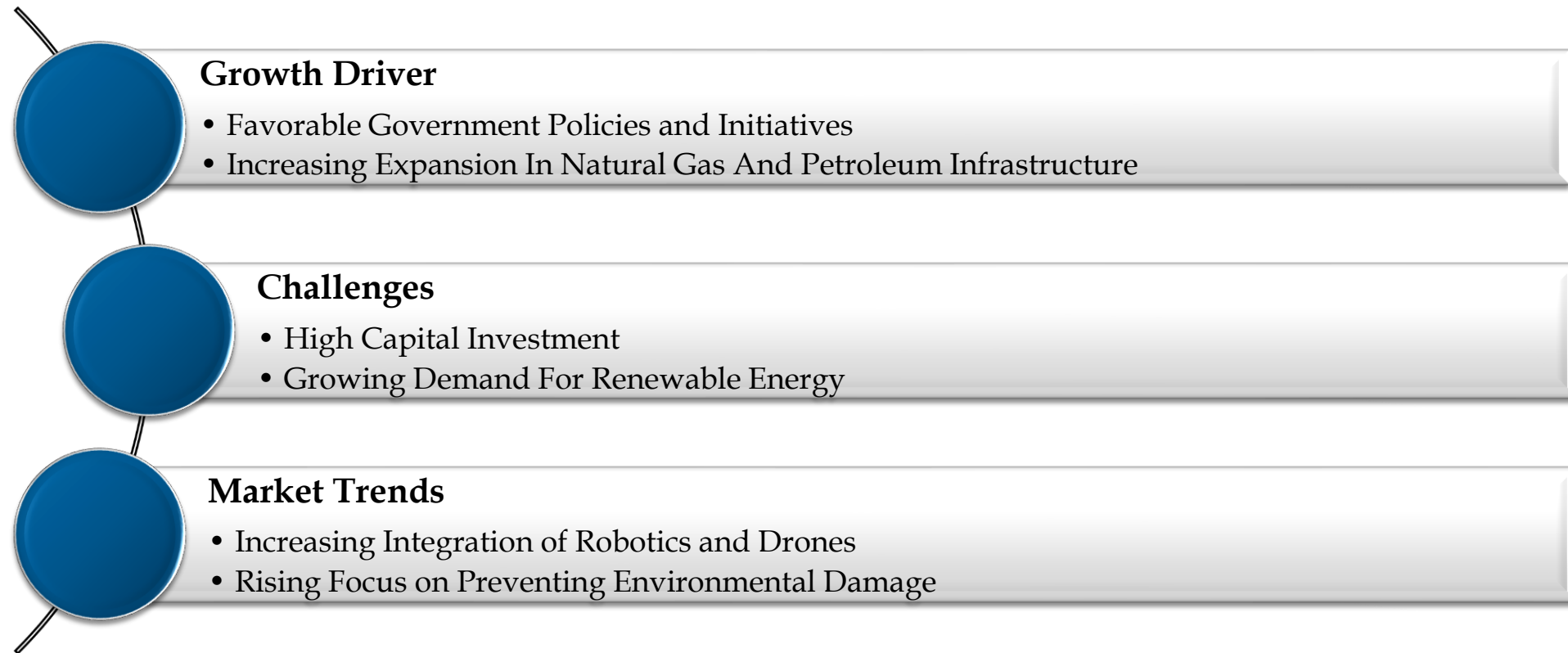
Region	Share (2023)	CAGR (2024-2029)
Germany	xx%	xx%
UK	xx%	xx%
France	xx%	xx%
Italy	xx%	xx%
Rest of Europe	xx%	xx%

Europe Leak Detection and Repair Market by Product; 2023 & 2029



Product	Share (2023 & 2029)
Handheld Gas Detectors	xx%
UAV-based Detectors	xx%
Vehicle-based Detectors	xx%
Manned Aircraft Detectors	xx%

Global Leak Detection and Repair Market: Dynamics



Global Leak Detection and Repair Market: Competitive Landscape

Players Profiled

- ❑ ABB Group
- ❑ Emerson Electric Co.
- ❑ Honeywell International Inc.
- ❑ Teledyne Technologies Incorporated (Teledyne FLIR LLC)
- ❑ Yokogawa Electric Corporation
- ❑ KROHNE Messtechnik GmbH
- ❑ Atmos International Ltd
- ❑ SeekOps Inc.,
- ❑ TTK
- ❑ Aeris Technologies, Inc.
- ❑ BRIDGER PHOTONICS
- ❑ ClampOn AS