

Global Temperature and Humidity Raman Lidar Market Growth 2026-2032

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Abstracts

The global Temperature and Humidity Raman Lidar market size is predicted to grow from US\$ 78.26 million in 2025 to US\$ 127 million in 2032; it is expected to grow at a CAGR of 7.5% from 2026 to 2032.

A temperature and humidity Raman lidar is a high-precision atmospheric remote sensing device based on the Raman scattering principle. It emits laser pulses into the atmosphere and receives Raman backscattered signals from water vapor and atmospheric molecules to achieve high-resolution real-time monitoring of the vertical distribution of atmospheric temperature and humidity. This equipment is widely used in meteorological monitoring, climate research, environmental protection, aviation safety, and atmospheric science research. Compared to traditional meteorological observation equipment, Raman lidar provides continuous vertical profile data and has higher spatiotemporal resolution. The upstream of the industry chain includes suppliers of lasers, optical components, photodetectors, telescope systems, precision mechanical structures, and signal processing chips; the midstream consists of equipment manufacturers responsible for system integration, optical path calibration, and atmospheric data processing software development; downstream applications mainly include meteorological departments, environmental monitoring stations, research institutions, aviation meteorological units, and climate research organizations. Product sales are mainly achieved through government procurement, scientific instrument suppliers, and professional atmospheric detection equipment channels. In 2025, the global production volume of temperature and humidity Raman lidar is projected to be approximately 267 units, with a global average market price of approximately \$300,000 per unit. The gross margins of major industry players range between 38% and 55%. In 2025, the global production capacity for temperature and humidity Raman lidar is estimated at approximately 381 units.

United States market for Temperature and Humidity Raman Lidar is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Temperature and Humidity Raman Lidar is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Temperature and Humidity Raman Lidar is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Temperature and Humidity Raman Lidar players cover Raymetrics S.A., Xiangxin Technology (Wuxi) Co., Ltd., Joinuser, Shenzhen Darsunlaser Tech Co., Ltd, Anhui Lanke Information Technology Co., Ltd., etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Temperature and Humidity Raman Lidar Industry Forecast" looks at past sales and reviews total world Temperature and Humidity Raman Lidar sales in 2025, providing a comprehensive analysis by region and market sector of projected Temperature and Humidity Raman Lidar sales for 2026 through 2032. With Temperature and Humidity Raman Lidar sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Temperature and Humidity Raman Lidar industry.

This Insight Report provides a comprehensive analysis of the global Temperature and Humidity Raman Lidar landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Temperature and Humidity Raman Lidar portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Temperature and Humidity Raman Lidar market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Temperature and Humidity Raman Lidar and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly

nuanced view of the current state and future trajectory in the global Temperature and Humidity Raman Lidar.

This report presents a comprehensive overview, market shares, and growth opportunities of Temperature and Humidity Raman Lidar market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Ground-Based Raman Lidar

Mobile Raman Lidar System

Segmentation by Vertical Detection Range:

Low-altitude Type: 0 ? 3 km

Mid-altitude Type: 0 ? 8 km

High-altitude Type: 0 ? 15 km

Segmentation by Application:

Commercial Meteorology

Scientific Research

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Raymetrics S.A.

Xiangxin Technology (Wuxi) Co., Ltd.

Joinuser

Shenzhen Darsunlaser Tech Co.,Ltd

Anhui Lanke Information Technology Co., Ltd.

Houpu (Beijing) Technology Co., Ltd.

Nanjing Xinhuan Optoelectronic Technology Co., Ltd.

Purple Pulse Lidar Systems SL

Key Questions Addressed in this Report

What is the 10-year outlook for the global Temperature and Humidity Raman Lidar market?

What factors are driving Temperature and Humidity Raman Lidar market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Temperature and Humidity Raman Lidar market opportunities vary by end market size?

How does Temperature and Humidity Raman Lidar break out by Type, by Application?

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