

Global Infrared Contrast Horizon Sensor Market Growth 2026-2032

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Abstracts

The global Infrared Contrast Horizon Sensor market size is predicted to grow from US\$ 1128 million in 2025 to US\$ 1886 million in 2032; it is expected to grow at a CAGR of 7.6% from 2026 to 2032.

Infrared contrast horizon sensors are attitude determination sensors that detect the Earth's horizon by measuring infrared radiation contrast between the Earth's surface and surrounding space, enabling accurate pitch and roll estimation for spacecraft and aerial platforms. These sensors are widely used in satellites, launch vehicles, high-altitude platforms, and certain unmanned aerial systems where autonomous orientation and stabilization are required. From a value chain perspective, upstream activities include infrared detectors, optical lenses, filters, electronic components, and signal processing chips, midstream processes focus on sensor assembly, optical calibration, algorithm integration, and environmental testing, while downstream demand is driven by satellite manufacturers, aerospace system integrators, defense contractors, and advanced UAV developers. In 2025, the average selling price of infrared contrast horizon sensors is approximately US\$62,000 per unit, with global sales volume reaching around 18,600 units. The industry maintains a gross margin of 35%-55%, supported by high reliability requirements, aerospace-grade qualification standards, algorithm-hardware integration, and long product development cycles.

Industry analysis indicates that infrared contrast horizon sensors remain a core attitude reference solution for small and medium satellites, benefiting from cost-effective performance and high reliability compared with star trackers in certain mission profiles. Growth is increasingly supported by small satellite constellations, enhanced infrared detector sensitivity, and the expansion of autonomous navigation requirements.

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

This Insight Report provides a comprehensive analysis of the global Infrared Contrast Horizon Sensor 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 Infrared Contrast Horizon Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Infrared Contrast Horizon Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Infrared Contrast Horizon Sensor 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 Infrared Contrast Horizon Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Infrared Contrast Horizon Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Active Infrared Contrast Horizon Sensor

Passive Infrared Contrast Horizon Sensor

Segmentation by Integration Level:

Standalone Sensors

ADCS-integrated Sensors

Segmentation by Accuracy Level:

Standard Accuracy

High Accuracy

Segmentation by Application:

Automotive

Aerospace

Others

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.

Safran Electronics & Defense

Thales Alenia Space

Airbus Defence and Space

Leonardo

Honeywell Aerospace

Northrop Grumman

SENER

Jena-Optronik

OHB System

AAC Clyde Space

Shanghai Institute of Satellite Engineering

Beijing StarSensor

Key Questions Addressed in this Report

What is the 10-year outlook for the global Infrared Contrast Horizon Sensor market?

What factors are driving Infrared Contrast Horizon Sensor market growth, globally and by region?

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

How do Infrared Contrast Horizon Sensor market opportunities vary by end market size?

How does Infrared Contrast Horizon Sensor break out by Type, by Application?

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