

Global Infrared Contrast Horizon Sensor Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G6D93F612744EN.html>

Date: April 2026

Pages: 119

Price: US\$ 4,480.00 (Single User License)

ID: G6D93F612744EN

Abstracts

The global Infrared Contrast Horizon Sensor market size is expected to reach \$ 1935 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

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.

This report studies the global Infrared Contrast Horizon Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Infrared Contrast Horizon Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Infrared Contrast Horizon Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Infrared Contrast Horizon Sensor total production and demand, 2021-2032, (K Units)

Global Infrared Contrast Horizon Sensor total production value, 2021-2032, (USD Million)

Global Infrared Contrast Horizon Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Infrared Contrast Horizon Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Infrared Contrast Horizon Sensor domestic production, consumption, key domestic manufacturers and share

Global Infrared Contrast Horizon Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Infrared Contrast Horizon Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Infrared Contrast Horizon Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Infrared Contrast Horizon Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Safran Electronics & Defense, Thales Alenia Space, Airbus Defence and Space, Leonardo, Honeywell Aerospace, Northrop Grumman, SENER, Jena-Optronik, OHB System, AAC Clyde Space, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Infrared Contrast Horizon Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Infrared Contrast Horizon Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Infrared Contrast Horizon Sensor Market, Segmentation by Type:

Active Infrared Contrast Horizon Sensor

Passive Infrared Contrast Horizon Sensor

Global Infrared Contrast Horizon Sensor Market, Segmentation by Integration Level:

Standalone Sensors

ADCS-integrated Sensors

Global Infrared Contrast Horizon Sensor Market, Segmentation by Accuracy Level:

Standard Accuracy

High Accuracy

Global Infrared Contrast Horizon Sensor Market, Segmentation by Application:

Automotive

Aerospace

Others

Companies Profiled:

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 Answered:

1. How big is the global Infrared Contrast Horizon Sensor market?
2. What is the demand of the global Infrared Contrast Horizon Sensor market?
3. What is the year over year growth of the global Infrared Contrast Horizon Sensor market?
4. What is the production and production value of the global Infrared Contrast Horizon Sensor market?
5. Who are the key producers in the global Infrared Contrast Horizon Sensor market?
6. What are the growth factors driving the market demand?

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