

# Global Visual RTK Receiver Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Visual RTK Receiver market size was valued at US\$ 938 million in 2025 and is forecast to a readjusted size of US\$ 1469 million by 2032 with a CAGR of 6.6% during review period.

A visual RTK receiver is a high-precision positioning device that integrates visual sensors with GNSS real-time dynamic positioning technology. Through the collaborative work of a camera, inertial measurement unit, and multi-constellation satellite navigation system, it further improves stability and continuity in complex environments beyond the centimeter-level positioning of traditional RTK. It can maintain high-precision positioning in urban canyons, obstructed environments, or unmanned system operation scenarios. In 2025, global sales of visual RTK receivers were approximately 320,000 units, with an average unit price of approximately US\$2,850. The overall industry capacity utilization rate was approximately 78%. Upstream companies mainly come from the fields of satellite navigation chips, camera modules, inertial sensors, communication modules, and precision electronics manufacturing. Downstream companies are concentrated in the fields of drone manufacturers, autonomous driving equipment manufacturers, surveying equipment companies, agricultural automation equipment manufacturers, and robotics and intelligent transportation system integrators. The industry's average gross profit margin is approximately 34%. The product cost structure mainly consists of GNSS chip and communication module costs of approximately 29%, visual sensor and optical component costs of approximately 21%, electronic component and motherboard costs of approximately 18%, software algorithm and system development costs of approximately 12%, and structural component and assembly manufacturing costs of approximately [missing information]. Sales and operating expenses comprise 11%, with sales and operating expenses accounting for approximately 9%. On the demand side,

the downstream demand list includes unmanned aerial vehicle (UAV) mapping systems, intelligent agricultural autonomous driving systems, engineering surveying equipment, unmanned delivery vehicles, inspection robots, and low-altitude economic flight platforms. The downstream customer list includes UAV manufacturers, surveying and geographic information companies, agricultural equipment companies, autonomous driving system developers, smart city operators, and research institutions. On the business opportunity side, policy drivers mainly come from the development plan of the satellite navigation industry and the promotion of low-altitude economy and intelligent transportation policies. Technological innovation drivers come from the upgrading of multi-sensor fusion positioning, visual SLAM, and high-precision satellite navigation fusion algorithms. Changes in consumer demand are reflected in the rapid growth in demand for unmanned operations, safe autonomous driving, and high-precision positioning, thereby driving the continued expansion of the visual RTK receiver market.

With the increasing demand for unmanned systems and high-precision positioning, visual RTK receivers are becoming an important development direction for high-end navigation equipment. Compared with traditional RTK equipment, these products, through the fusion of vision and satellite positioning, can maintain more stable positioning capabilities in environments where satellite signals are blocked or subject to multipath interference. Therefore, their application value in autonomous driving, drone mapping, smart agriculture, and robotics is constantly increasing. In recent years, the combination of multi-constellation, multi-frequency GNSS with visual sensing technology has enabled equipment to achieve centimeter-level positioning accuracy in complex scenarios and significantly improve system reliability and continuity. At the same time, with the improvement of the BeiDou system and the advancement of high-precision positioning infrastructure construction, the demand for high-precision positioning equipment continues to expand. Industry manufacturers are also promoting product miniaturization, low power consumption, and intelligent algorithm upgrades. In the future, visual RTK receivers will gradually expand from professional mapping equipment to unmanned delivery, urban infrastructure inspection, smart logistics, and industrial automation. With the development of autonomous driving technology and the low-altitude economy, the demand for these products is expected to maintain rapid growth. Companies with core algorithms, chip integration capabilities, and system integration capabilities will gain a higher market share.

This report is a detailed and comprehensive analysis for global Visual RTK Receiver market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that

contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

**Key Features:**

Global Visual RTK Receiver market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Visual RTK Receiver market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Visual RTK Receiver market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Visual RTK Receiver market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

**The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Visual RTK Receiver
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Visual RTK Receiver market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Leica, Trimble Navigation, SatLab Geosolutions, Fixposition, Chcnav, ComNav Technology, CHC Navigation, Beijing UniStrong Science Technology, Hi-Target, Geomax(Hexagon), etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

## **Market Segmentation**

Visual RTK Receiver market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Below 10000mAh

Equal or Above 10000mAh

### Market segment by Camera

Mono-Camera

Stereo-Camera

Camera+LiDAR

### Market segment by Accuracy

Centimeter-Level

Decimeter-Level

Sub-Meter-Level

### Market segment by Application

Industrial

Agriculture

Aerospace

Construction Industry

Other

#### Major players covered

Leica

Trimble Navigation

SatLab Geosolutions

Fixposition

Chcnav

ComNav Technology

CHC Navigation

Beijing UniStrong Science & Technology

Hi-Target

Geomax(Hexagon)

Tersus GNSS

South GNSS Navigation

Guangzhou Tianyu

Farnav

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Visual RTK Receiver product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Visual RTK Receiver, with price, sales quantity, revenue, and global market share of Visual RTK Receiver from 2021 to 2026.

Chapter 3, the Visual RTK Receiver competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Visual RTK Receiver breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Visual RTK Receiver market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Visual RTK Receiver.

Chapter 14 and 15, to describe Visual RTK Receiver sales channel, distributors, customers, research findings and conclusion.

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