

# Global Panorama Fisheye Camera Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Panorama Fisheye Camera market size is expected to reach \$ 2283 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

In 2025, global Panorama Fisheye Camera production reached approximately 3.51 million units , with an average global market price of around US\$400 per unit.

A panorama fisheye camera is a video capture device that uses an ultra-wide-angle fisheye lens to provide broad-area coverage, typically enabling 180°, 270°, or 360° panoramic monitoring from a single installation point. Through image dewarping algorithms, the fisheye image can be converted into panoramic views, quad views, virtual PTZ views, or multiple perspective views. Compared with traditional bullet or dome cameras, panorama fisheye cameras can reduce blind spots and lower the number of cameras required, making them suitable for shopping malls, hotel lobbies, classrooms, offices, warehouses, stations, parking areas, exhibition halls, and open factory spaces. These products typically integrate high-resolution image sensors, fisheye lenses, image processing chips, infrared illumination, audio interfaces, PoE power supply, edge storage, AI analytics, and network transmission modules, representing a video surveillance category characterized by wide coverage, fewer installation points, and intelligent analysis.

The upstream of the panorama fisheye camera industry chain mainly includes suppliers of CMOS image sensors, fisheye lenses, optical glass or plastic lenses, ISP/AI chips, memory, infrared LEDs, structural parts, PCBs, power management ICs, connectors, and housing materials. Image sensors, fisheye lenses, and algorithm chips determine image quality, field of view, low-light performance, and dewarping quality.

Representative upstream companies include Sony Semiconductor Solutions, OmniVision, Samsung Electronics, Canon, Sunny Optical, Largan Precision, ON Semiconductor, Ambarella, Novatek, Qualcomm, and STMicroelectronics. The midstream consists of camera manufacturers, video surveillance equipment companies, and security system integrators responsible for hardware design, optical calibration, algorithm integration, network protocol compatibility, security platform access, and complete camera production. Representative companies include Hikvision, Dahua, Axis Communications, Hanwha Vision, Bosch Security Systems, Avigilon, Uniview, and Vivotek. Downstream applications include commercial retail, office buildings, transportation hubs, education, hotels, warehousing and logistics, industrial parks, public safety, smart cities, and home security. Typical end users include Walmart, Amazon, DHL, FedEx, Hilton, Marriott, CBRE, Siemens, Johnson Controls, Honeywell, and Securitas. Overall, the value chain is characterized by “upstream optics and chips determining imaging capability, midstream manufacturers determining algorithm and platform compatibility, and downstream security digitalization and intelligence driving procurement.” Axis also notes that panoramic or multi-sensor cameras can deliver 360° coverage from a single installation point while reducing software, installation, and cabling costs.

The panorama fisheye camera market is currently in a stable growth phase, with products evolving from simple wide-angle monitoring devices into intelligent video nodes integrating high-resolution imaging, dewarping algorithms, AI analytics, edge storage, and platform integration. Traditional dome and bullet cameras still dominate the broader surveillance market, but fisheye cameras have clear advantages in open spaces such as retail stores, warehouses, campuses, offices, hotels, and public venues, as they can cover wider areas with fewer devices and reduce wiring and maintenance complexity. Future trends will move toward higher resolution, stronger low-light performance, more accurate dewarping, deeper AI analytics, multi-sensor fusion, cloud-edge collaboration, and stronger cybersecurity. Key drivers include rising public safety investment, growing demand for commercial video analytics, smart city development, retail digitalization, warehouse automation, and user demand for blind-spot-free monitoring. Restraints include edge distortion in single-lens fisheye images, insufficient long-distance detail, privacy compliance pressure, low-end price competition, cybersecurity risks, and substitution by conventional multi-camera systems or PTZ cameras in some scenarios.

This report studies the global Panorama Fisheye Camera production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Panorama Fisheye Camera 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 Panorama Fisheye Camera that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Panorama Fisheye Camera total production and demand, 2021-2032, (K Units)

Global Panorama Fisheye Camera total production value, 2021-2032, (USD Million)

Global Panorama Fisheye Camera production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Panorama Fisheye Camera consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Panorama Fisheye Camera domestic production, consumption, key domestic manufacturers and share

Global Panorama Fisheye Camera production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Panorama Fisheye Camera production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Panorama Fisheye Camera production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Panorama Fisheye Camera 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 Verkada, Honeywell, American Dynamics, Pelco, GoPro, Avigilon, Ricoh, Panasonic, Canon, MOBOTIX, 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 Panorama Fisheye Camera market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (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 Panorama Fisheye Camera Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Panorama Fisheye Camera Market, Segmentation by Type:

Single Sensor

Multiple Sensors

#### Global Panorama Fisheye Camera Market, Segmentation by Field of View:

180°

270°

360°

#### Global Panorama Fisheye Camera Market, Segmentation by Resolution:

3MP

5MP

6MP

8MP

12MP

Others

#### Global Panorama Fisheye Camera Market, Segmentation by Application:

Residential

Commercial

#### Companies Profiled:

Verkada

Honeywell

American Dynamics

Pelco

GoPro

Avigilon

Ricoh

Panasonic

Canon

MOBOTIX

Bosch Security Systems

Axis Communications

Hanwha Vision

GeoVision

Vivotek

ACTi

Milesight

Dahua Technology

Hikvision

Leading Optics

Wintop Optics

Jinshikang Technology

MVTEAM Technology

Insta360

DJI

Huatu Digital

Uniview

Key Questions Answered:

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

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