

# Global GigE Vision Camera Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GF1AFED434BAEN.html>

Date: April 2026

Pages: 169

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

ID: GF1AFED434BAEN

## Abstracts

The global GigE Vision Camera market size is expected to reach \$ 5047 million by 2032, rising at a market growth of 10.1% CAGR during the forecast period (2026-2032).

A GigE Vision Camera is an industrial vision camera that conforms to the GigE Vision standard and uses a Gigabit Ethernet interface for high-speed image transfer. Typically housed in a rugged metal enclosure with an RJ-45 Ethernet port, power and I/O connectors, the camera integrates an image sensor (CMOS or CCD), lens mount (C/CS), electronics, and housing designed for industrial environments. Variants include monochrome or color models, area or line scan types, with a range of resolutions and frame rates. Its primary function is to capture optical images of a scene or object and stream high-bandwidth digital image data over Ethernet to an industrial PC, embedded vision processor, or FPGA for real-time vision processing tasks such as quality inspection, positioning, barcode reading, and measurement. GigE Vision offers advantages including long cable lengths (up to 100 m), high throughput, standard network topology compatibility, and ease of distributed deployment. These cameras are produced and supplied by industrial camera manufacturers, machine vision integrators and automation companies?such as Basler, Teledyne DALSA, FLIR, IDS?and used across automated production inspection, robotic guidance, traffic monitoring, pharmaceutical packaging inspection, and logistics sorting and positioning systems.

As global manufacturing moves toward intelligent, automated, and digital transformation, the market development opportunities for GigE Vision cameras, as a core perception unit in industrial automation, are significantly expanding. Firstly, against the backdrop of manufacturing upgrades, there is sustained strong demand for high-precision and high-reliability visual perception in quality inspection, process control, and assembly verification, and GigE Vision's advantages in transmission bandwidth, long-

distance cabling, and standardized protocols make it a preferred device in many smart manufacturing projects. At the same time, increasing investments in industrial internet and smart factory construction both domestically and internationally, along with accelerated capital deployment across the upstream and downstream of the industry chain, have rapidly grown the machine vision ecosystem, driving shipment growth and innovation in GigE Vision cameras. Moreover, the maturation of artificial intelligence, deep learning, and edge computing technologies in visual algorithms has enhanced system performance through synergistic optimization with vision cameras, providing stronger technical support for GigE Vision cameras in complex inspection scenarios. These driving factors collectively form a foundation for high market growth of GigE Vision cameras over the next several years. Despite broad market prospects, the GigE Vision camera industry also faces numerous challenges and risks. Firstly, global economic uncertainties, cyclical fluctuations in manufacturing, and changes in the trade environment could suppress downstream end-user demand, thereby affecting the procurement rhythm of machine vision equipment. Additionally, the rapid pace of technological iteration in the machine vision field, including competing interface standards (such as USB3 Vision and CoaXPress), upgrades to transmission protocols, and advancements in AI visual algorithms, places continuous innovation pressure on GigE Vision camera manufacturers. Product homogenization also intensifies competition, particularly in the low-end market, pressuring profit margins and compelling companies to maintain competitiveness through technology accumulation and differentiated services. Structural constraints such as talent shortages in the industry and limited high-end optics and sensor manufacturing capabilities may also hinder domestic vendors' breakthroughs in the high-end market. Finally, as industrial networks deepen, non-traditional risks such as network security and data privacy protection become more prominent, requiring all parties in the industry chain to jointly develop more comprehensive security standards and safeguards, which places higher demands on current enterprise capabilities. Regarding downstream demand trends, the demand for GigE Vision cameras is showing multi-level and cross-industry expansion. On one hand, traditional manufacturing continues to drive automation in quality inspection, online equipment monitoring, and intelligent assembly, providing a stable market foundation for GigE Vision cameras. With the rapid growth of high-precision manufacturing industries such as 3C products, semiconductors, photovoltaics, and new energy batteries, requirements for high resolution, high frame rates, and real-time performance become increasingly stringent, pushing GigE Vision cameras toward higher performance products. At the same time, the logistics and warehousing automation sector has seen significant growth in demand for visual positioning, barcode recognition, and volume measurement, increasing the penetration of machine vision in non-traditional manufacturing fields. Emerging application scenarios such as intelligent

transportation and smart city security are also beginning to adopt GigE Vision cameras as vision sensing endpoints, supporting functions such as traffic flow analysis, license plate recognition, and security monitoring. In the future, with the unification of industry standards and the improvement of the ecosystem, downstream customers' demand for integrated vision systems will further strengthen, requiring vision camera manufacturers to provide not only products but comprehensive solutions and service capabilities, thereby driving the entire market toward higher added value.

This report studies the global GigE Vision Camera production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global GigE Vision Camera total production and demand, 2021-2032, (K Units)

Global GigE Vision Camera total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: GigE Vision Camera domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global GigE Vision 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 Basler, IDS Imaging Development Systems, Baumer Group, Balluff, JAI A/S, SENTECH Instruments, Lucid Vision Labs, Teledyne DALSA, Omron Corporation, KEYENCE Corporation, 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 GigE Vision 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 GigE Vision Camera Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GigE Vision Camera Market, Segmentation by Type:

0-20 Fps

21-60 Fps

61-120 Fps

121-240 Fps

241-999 Fps

Global GigE Vision Camera Market, Segmentation by Manufacturing Process:

CMOS Sensor?Based Camera

CCD Sensor?Based Camera

Backside-Illuminated (BSI) Sensor Camera

Wafer-Level Packaging Camera

Global GigE Vision Camera Market, Segmentation by Power Dissipation:

Low-Power Cameras

Standard-Power Cameras

High-Power Cameras

Global GigE Vision Camera Market, Segmentation by Camera Interface:

Ethernet Cameras

USB Cameras

CoaXPress Cameras

Global GigE Vision Camera Market, Segmentation by Application:

Robotics

Quality control

Industrial imaging

Others

#### Companies Profiled:

Basler

IDS Imaging Development Systems

Baumer Group

Balluff

JAI A/S

SENTECH Instruments

Lucid Vision Labs

Teledyne DALSA

Omron Corporation

KEYENCE Corporation

Cognex Corporation

Daheng Imaging

Hikvision

MindVision

OPT Machine Vision

LUSTER LightTech

Tattile Srl

Framos

XIMEA

NET

Zebra Technologies Corporation

**Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

- 1.1 GigE Vision Camera Introduction
- 1.2 World GigE Vision Camera Supply & Forecast
  - 1.2.1 World GigE Vision Camera Production Value (2021 & 2025 & 2032)
  - 1.2.2 World GigE Vision Camera Production (2021-2032)
  - 1.2.3 World GigE Vision Camera Pricing Trends (2021-2032)
- 1.3 World GigE Vision Camera Production by Region (Based on Production Site)
  - 1.3.1 World GigE Vision Camera Production Value by Region (2021-2032)
  - 1.3.2 World GigE Vision Camera Production by Region (2021-2032)
  - 1.3.3 World GigE Vision Camera Average Price by Region (2021-2032)
  - 1.3.4 North America GigE Vision Camera Production (2021-2032)
  - 1.3.5 Europe GigE Vision Camera Production (2021-2032)
  - 1.3.6 China GigE Vision Camera Production (2021-2032)
  - 1.3.7 Japan GigE Vision Camera Production (2021-2032)
  - 1.3.8 South Korea GigE Vision Camera Production (2021-2032)
  - 1.3.9 Taiwan China GigE Vision Camera Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 GigE Vision Camera Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 GigE Vision Camera Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World GigE Vision Camera Demand (2021-2032)
- 2.2 World GigE Vision Camera Consumption by Region
  - 2.2.1 World GigE Vision Camera Consumption by Region (2021-2026)
  - 2.2.2 World GigE Vision Camera Consumption Forecast by Region (2027-2032)
- 2.3 United States GigE Vision Camera Consumption (2021-2032)
- 2.4 China GigE Vision Camera Consumption (2021-2032)
- 2.5 Europe GigE Vision Camera Consumption (2021-2032)
- 2.6 Japan GigE Vision Camera Consumption (2021-2032)
- 2.7 South Korea GigE Vision Camera Consumption (2021-2032)
- 2.8 ASEAN GigE Vision Camera Consumption (2021-2032)
- 2.9 India GigE Vision Camera Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World GigE Vision Camera Production Value by Manufacturer (2021-2026)
- 3.2 World GigE Vision Camera Production by Manufacturer (2021-2026)
- 3.3 World GigE Vision Camera Average Price by Manufacturer (2021-2026)
- 3.4 GigE Vision Camera Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global GigE Vision Camera Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for GigE Vision Camera in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for GigE Vision Camera in 2025
- 3.6 GigE Vision Camera Market: Overall Company Footprint Analysis
  - 3.6.1 GigE Vision Camera Market: Region Footprint
  - 3.6.2 GigE Vision Camera Market: Company Product Type Footprint
  - 3.6.3 GigE Vision Camera Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: GigE Vision Camera Production Value Comparison
  - 4.1.1 United States VS China: GigE Vision Camera Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: GigE Vision Camera Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: GigE Vision Camera Production Comparison
  - 4.2.1 United States VS China: GigE Vision Camera Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: GigE Vision Camera Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: GigE Vision Camera Consumption Comparison
  - 4.3.1 United States VS China: GigE Vision Camera Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: GigE Vision Camera Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based GigE Vision Camera Manufacturers and Market Share, 2021-2026

4.4.1 United States Based GigE Vision Camera Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers GigE Vision Camera Production Value (2021-2026)

4.4.3 United States Based Manufacturers GigE Vision Camera Production (2021-2026)

4.5 China Based GigE Vision Camera Manufacturers and Market Share

4.5.1 China Based GigE Vision Camera Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers GigE Vision Camera Production Value (2021-2026)

4.5.3 China Based Manufacturers GigE Vision Camera Production (2021-2026)

4.6 Rest of World Based GigE Vision Camera Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based GigE Vision Camera Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers GigE Vision Camera Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers GigE Vision Camera Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World GigE Vision Camera Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 0-20 Fps

5.2.2 21-60 Fps

5.2.3 61-120 Fps

5.2.4 121-240 Fps

5.2.5 241-999 Fps

5.3 Market Segment by Type

5.3.1 World GigE Vision Camera Production by Type (2021-2032)

5.3.2 World GigE Vision Camera Production Value by Type (2021-2032)

5.3.3 World GigE Vision Camera Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY MANUFACTURING PROCESS**

6.1 World GigE Vision Camera Market Size Overview by Manufacturing Process: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Manufacturing Process

6.2.1 CMOS Sensor?Based Camera

- 6.2.2 CCD Sensor-Based Camera
- 6.2.3 Backside-Illuminated (BSI) Sensor Camera
- 6.2.4 Wafer-Level Packaging Camera
- 6.3 Market Segment by Manufacturing Process
  - 6.3.1 World GigE Vision Camera Production by Manufacturing Process (2021-2032)
  - 6.3.2 World GigE Vision Camera Production Value by Manufacturing Process (2021-2032)
  - 6.3.3 World GigE Vision Camera Average Price by Manufacturing Process (2021-2032)

## **7 MARKET ANALYSIS BY POWER DISSIPATION**

- 7.1 World GigE Vision Camera Market Size Overview by Power Dissipation: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Power Dissipation
  - 7.2.1 Low-Power Cameras
  - 7.2.2 Standard-Power Cameras
  - 7.2.3 High-Power Cameras
- 7.3 Market Segment by Power Dissipation
  - 7.3.1 World GigE Vision Camera Production by Power Dissipation (2021-2032)
  - 7.3.2 World GigE Vision Camera Production Value by Power Dissipation (2021-2032)
  - 7.3.3 World GigE Vision Camera Average Price by Power Dissipation (2021-2032)

## **8 MARKET ANALYSIS BY CAMERA INTERFACE**

- 8.1 World GigE Vision Camera Market Size Overview by Camera Interface: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Camera Interface
  - 8.2.1 Ethernet Cameras
  - 8.2.2 USB Cameras
  - 8.2.3 CoaXPress Cameras
- 8.3 Market Segment by Camera Interface
  - 8.3.1 World GigE Vision Camera Production by Camera Interface (2021-2032)
  - 8.3.2 World GigE Vision Camera Production Value by Camera Interface (2021-2032)
  - 8.3.3 World GigE Vision Camera Average Price by Camera Interface (2021-2032)

## **9 MARKET ANALYSIS BY APPLICATION**

- 9.1 World GigE Vision Camera Market Size Overview by Application: 2021 VS 2025 VS

2032

## 9.2 Segment Introduction by Application

9.2.1 Robotics

9.2.2 Quality control

9.2.3 Industrial imaging

9.2.4 Others

## 9.3 Market Segment by Application

9.3.1 World GigE Vision Camera Production by Application (2021-2032)

9.3.2 World GigE Vision Camera Production Value by Application (2021-2032)

9.3.3 World GigE Vision Camera Average Price by Application (2021-2032)

# 10 COMPANY PROFILES

## 10.1 Basler

10.1.1 Basler Details

10.1.2 Basler Major Business

10.1.3 Basler GigE Vision Camera Product and Services

10.1.4 Basler GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 Basler Recent Developments/Updates

10.1.6 Basler Competitive Strengths & Weaknesses

## 10.2 IDS Imaging Development Systems

10.2.1 IDS Imaging Development Systems Details

10.2.2 IDS Imaging Development Systems Major Business

10.2.3 IDS Imaging Development Systems GigE Vision Camera Product and Services

10.2.4 IDS Imaging Development Systems GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 IDS Imaging Development Systems Recent Developments/Updates

10.2.6 IDS Imaging Development Systems Competitive Strengths & Weaknesses

## 10.3 Baumer Group

10.3.1 Baumer Group Details

10.3.2 Baumer Group Major Business

10.3.3 Baumer Group GigE Vision Camera Product and Services

10.3.4 Baumer Group GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.3.5 Baumer Group Recent Developments/Updates

10.3.6 Baumer Group Competitive Strengths & Weaknesses

## 10.4 Balluff

10.4.1 Balluff Details

- 10.4.2 Balluff Major Business
- 10.4.3 Balluff GigE Vision Camera Product and Services
- 10.4.4 Balluff GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.4.5 Balluff Recent Developments/Updates
- 10.4.6 Balluff Competitive Strengths & Weaknesses
- 10.5 JAI A/S
  - 10.5.1 JAI A/S Details
  - 10.5.2 JAI A/S Major Business
  - 10.5.3 JAI A/S GigE Vision Camera Product and Services
  - 10.5.4 JAI A/S GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.5.5 JAI A/S Recent Developments/Updates
  - 10.5.6 JAI A/S Competitive Strengths & Weaknesses
- 10.6 SENTECH Instruments
  - 10.6.1 SENTECH Instruments Details
  - 10.6.2 SENTECH Instruments Major Business
  - 10.6.3 SENTECH Instruments GigE Vision Camera Product and Services
  - 10.6.4 SENTECH Instruments GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.6.5 SENTECH Instruments Recent Developments/Updates
  - 10.6.6 SENTECH Instruments Competitive Strengths & Weaknesses
- 10.7 Lucid Vision Labs
  - 10.7.1 Lucid Vision Labs Details
  - 10.7.2 Lucid Vision Labs Major Business
  - 10.7.3 Lucid Vision Labs GigE Vision Camera Product and Services
  - 10.7.4 Lucid Vision Labs GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.7.5 Lucid Vision Labs Recent Developments/Updates
  - 10.7.6 Lucid Vision Labs Competitive Strengths & Weaknesses
- 10.8 Teledyne DALSA
  - 10.8.1 Teledyne DALSA Details
  - 10.8.2 Teledyne DALSA Major Business
  - 10.8.3 Teledyne DALSA GigE Vision Camera Product and Services
  - 10.8.4 Teledyne DALSA GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.8.5 Teledyne DALSA Recent Developments/Updates
  - 10.8.6 Teledyne DALSA Competitive Strengths & Weaknesses
- 10.9 Omron Corporation

- 10.9.1 Omron Corporation Details
- 10.9.2 Omron Corporation Major Business
- 10.9.3 Omron Corporation GigE Vision Camera Product and Services
- 10.9.4 Omron Corporation GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.9.5 Omron Corporation Recent Developments/Updates
- 10.9.6 Omron Corporation Competitive Strengths & Weaknesses
- 10.10 KEYENCE Corporation
  - 10.10.1 KEYENCE Corporation Details
  - 10.10.2 KEYENCE Corporation Major Business
  - 10.10.3 KEYENCE Corporation GigE Vision Camera Product and Services
  - 10.10.4 KEYENCE Corporation GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.10.5 KEYENCE Corporation Recent Developments/Updates
  - 10.10.6 KEYENCE Corporation Competitive Strengths & Weaknesses
- 10.11 Cognex Corporation
  - 10.11.1 Cognex Corporation Details
  - 10.11.2 Cognex Corporation Major Business
  - 10.11.3 Cognex Corporation GigE Vision Camera Product and Services
  - 10.11.4 Cognex Corporation GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.11.5 Cognex Corporation Recent Developments/Updates
  - 10.11.6 Cognex Corporation Competitive Strengths & Weaknesses
- 10.12 Daheng Imaging
  - 10.12.1 Daheng Imaging Details
  - 10.12.2 Daheng Imaging Major Business
  - 10.12.3 Daheng Imaging GigE Vision Camera Product and Services
  - 10.12.4 Daheng Imaging GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.12.5 Daheng Imaging Recent Developments/Updates
  - 10.12.6 Daheng Imaging Competitive Strengths & Weaknesses
- 10.13 Hikvision
  - 10.13.1 Hikvision Details
  - 10.13.2 Hikvision Major Business
  - 10.13.3 Hikvision GigE Vision Camera Product and Services
  - 10.13.4 Hikvision GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.13.5 Hikvision Recent Developments/Updates
  - 10.13.6 Hikvision Competitive Strengths & Weaknesses

## 10.14 MindVision

10.14.1 MindVision Details

10.14.2 MindVision Major Business

10.14.3 MindVision GigE Vision Camera Product and Services

10.14.4 MindVision GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.14.5 MindVision Recent Developments/Updates

10.14.6 MindVision Competitive Strengths & Weaknesses

## 10.15 OPT Machine Vision

10.15.1 OPT Machine Vision Details

10.15.2 OPT Machine Vision Major Business

10.15.3 OPT Machine Vision GigE Vision Camera Product and Services

10.15.4 OPT Machine Vision GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.15.5 OPT Machine Vision Recent Developments/Updates

10.15.6 OPT Machine Vision Competitive Strengths & Weaknesses

## 10.16 LUSTER LightTech

10.16.1 LUSTER LightTech Details

10.16.2 LUSTER LightTech Major Business

10.16.3 LUSTER LightTech GigE Vision Camera Product and Services

10.16.4 LUSTER LightTech GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.16.5 LUSTER LightTech Recent Developments/Updates

10.16.6 LUSTER LightTech Competitive Strengths & Weaknesses

## 10.17 Tattile Srl

10.17.1 Tattile Srl Details

10.17.2 Tattile Srl Major Business

10.17.3 Tattile Srl GigE Vision Camera Product and Services

10.17.4 Tattile Srl GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.17.5 Tattile Srl Recent Developments/Updates

10.17.6 Tattile Srl Competitive Strengths & Weaknesses

## 10.18 Framos

10.18.1 Framos Details

10.18.2 Framos Major Business

10.18.3 Framos GigE Vision Camera Product and Services

10.18.4 Framos GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.18.5 Framos Recent Developments/Updates

- 10.18.6 Framos Competitive Strengths & Weaknesses
- 10.19 XIMEA
  - 10.19.1 XIMEA Details
  - 10.19.2 XIMEA Major Business
  - 10.19.3 XIMEA GigE Vision Camera Product and Services
  - 10.19.4 XIMEA GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.19.5 XIMEA Recent Developments/Updates
  - 10.19.6 XIMEA Competitive Strengths & Weaknesses
- 10.20 NET
  - 10.20.1 NET Details
  - 10.20.2 NET Major Business
  - 10.20.3 NET GigE Vision Camera Product and Services
  - 10.20.4 NET GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.20.5 NET Recent Developments/Updates
  - 10.20.6 NET Competitive Strengths & Weaknesses
- 10.21 Zebra Technologies Corporation
  - 10.21.1 Zebra Technologies Corporation Details
  - 10.21.2 Zebra Technologies Corporation Major Business
  - 10.21.3 Zebra Technologies Corporation GigE Vision Camera Product and Services
  - 10.21.4 Zebra Technologies Corporation GigE Vision Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 10.21.5 Zebra Technologies Corporation Recent Developments/Updates
  - 10.21.6 Zebra Technologies Corporation Competitive Strengths & Weaknesses

## **11 INDUSTRY CHAIN ANALYSIS**

- 11.1 GigE Vision Camera Industry Chain
- 11.2 GigE Vision Camera Upstream Analysis
  - 11.2.1 GigE Vision Camera Core Raw Materials
  - 11.2.2 Main Manufacturers of GigE Vision Camera Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 GigE Vision Camera Production Mode
- 11.6 GigE Vision Camera Procurement Model
- 11.7 GigE Vision Camera Industry Sales Model and Sales Channels
  - 11.7.1 GigE Vision Camera Sales Model
  - 11.7.2 GigE Vision Camera Typical Distributors

## **12 RESEARCH FINDINGS AND CONCLUSION**

### **13 APPENDIX**

13.1 Methodology

13.2 Research Process and Data Source

13.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World GigE Vision Camera Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World GigE Vision Camera Production Value by Region (2021-2026) & (USD Million)

Table 3. World GigE Vision Camera Production Value by Region (2027-2032) & (USD Million)

Table 4. World GigE Vision Camera Production Value Market Share by Region (2021-2026)

Table 5. World GigE Vision Camera Production Value Market Share by Region (2027-2032)

Table 6. World GigE Vision Camera Production by Region (2021-2026) & (K Units)

Table 7. World GigE Vision Camera Production by Region (2027-2032) & (K Units)

Table 8. World GigE Vision Camera Production Market Share by Region (2021-2026)

Table 9. World GigE Vision Camera Production Market Share by Region (2027-2032)

Table 10. World GigE Vision Camera Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World GigE Vision Camera Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. GigE Vision Camera Major Market Trends

Table 13. World GigE Vision Camera Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World GigE Vision Camera Consumption by Region (2021-2026) & (K Units)

Table 15. World GigE Vision Camera Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World GigE Vision Camera Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key GigE Vision Camera Producers in 2025

Table 18. World GigE Vision Camera Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key GigE Vision Camera Producers in 2025

Table 20. World GigE Vision Camera Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global GigE Vision Camera Company Evaluation Quadrant

Table 22. World GigE Vision Camera Industry Rank of Major Manufacturers, Based on

## Production Value in 2025

Table 23. Head Office and GigE Vision Camera Production Site of Key Manufacturer

Table 24. GigE Vision Camera Market: Company Product Type Footprint

Table 25. GigE Vision Camera Market: Company Product Application Footprint

Table 26. GigE Vision Camera Competitive Factors

Table 27. GigE Vision Camera New Entrant and Capacity Expansion Plans

Table 28. GigE Vision Camera Mergers & Acquisitions Activity

Table 29. United States VS China GigE Vision Camera Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China GigE Vision Camera Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China GigE Vision Camera Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based GigE Vision Camera Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers GigE Vision Camera Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers GigE Vision Camera Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers GigE Vision Camera Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers GigE Vision Camera Production Market Share (2021-2026)

Table 37. China Based GigE Vision Camera Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers GigE Vision Camera Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers GigE Vision Camera Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers GigE Vision Camera Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers GigE Vision Camera Production Market Share (2021-2026)

Table 42. Rest of World Based GigE Vision Camera Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers GigE Vision Camera Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers GigE Vision Camera Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers GigE Vision Camera Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers GigE Vision Camera Production Market Share (2021-2026)

Table 47. World GigE Vision Camera Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World GigE Vision Camera Production by Type (2021-2026) & (K Units)

Table 49. World GigE Vision Camera Production by Type (2027-2032) & (K Units)

Table 50. World GigE Vision Camera Production Value by Type (2021-2026) & (USD Million)

Table 51. World GigE Vision Camera Production Value by Type (2027-2032) & (USD Million)

Table 52. World GigE Vision Camera Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World GigE Vision Camera Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World GigE Vision Camera Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Table 55. World GigE Vision Camera Production by Manufacturing Process (2021-2026) & (K Units)

Table 56. World GigE Vision Camera Production by Manufacturing Process (2027-2032) & (K Units)

Table 57. World GigE Vision Camera Production Value by Manufacturing Process (2021-2026) & (USD Million)

Table 58. World GigE Vision Camera Production Value by Manufacturing Process (2027-2032) & (USD Million)

Table 59. World GigE Vision Camera Average Price by Manufacturing Process (2021-2026) & (US\$/Unit)

Table 60. World GigE Vision Camera Average Price by Manufacturing Process (2027-2032) & (US\$/Unit)

Table 61. World GigE Vision Camera Production Value by Power Dissipation, (USD Million), 2021 & 2025 & 2032

Table 62. World GigE Vision Camera Production by Power Dissipation (2021-2026) & (K Units)

Table 63. World GigE Vision Camera Production by Power Dissipation (2027-2032) & (K Units)

Table 64. World GigE Vision Camera Production Value by Power Dissipation (2021-2026) & (USD Million)

Table 65. World GigE Vision Camera Production Value by Power Dissipation (2027-2032) & (USD Million)

Table 66. World GigE Vision Camera Average Price by Power Dissipation (2021-2026)

& (US\$/Unit)

Table 67. World GigE Vision Camera Average Price by Power Dissipation (2027-2032)

& (US\$/Unit)

Table 68. World GigE Vision Camera Production Value by Camera Interface, (USD Million), 2021 & 2025 & 2032

Table 69. World GigE Vision Camera Production by Camera Interface (2021-2026) & (K Units)

Table 70. World GigE Vision Camera Production by Camera Interface (2027-2032) & (K Units)

Table 71. World GigE Vision Camera Production Value by Camera Interface (2021-2026) & (USD Million)

Table 72. World GigE Vision Camera Production Value by Camera Interface (2027-2032) & (USD Million)

Table 73. World GigE Vision Camera Average Price by Camera Interface (2021-2026) & (US\$/Unit)

Table 74. World GigE Vision Camera Average Price by Camera Interface (2027-2032) & (US\$/Unit)

Table 75. World GigE Vision Camera Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World GigE Vision Camera Production by Application (2021-2026) & (K Units)

Table 77. World GigE Vision Camera Production by Application (2027-2032) & (K Units)

Table 78. World GigE Vision Camera Production Value by Application (2021-2026) & (USD Million)

Table 79. World GigE Vision Camera Production Value by Application (2027-2032) & (USD Million)

Table 80. World GigE Vision Camera Average Price by Application (2021-2026) & (US\$/Unit)

Table 81. World GigE Vision Camera Average Price by Application (2027-2032) & (US\$/Unit)

Table 82. Basler Basic Information, Manufacturing Base and Competitors

Table 83. Basler Major Business

Table 84. Basler GigE Vision Camera Product and Services

Table 85. Basler GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. Basler Recent Developments/Updates

Table 87. Basler Competitive Strengths & Weaknesses

Table 88. IDS Imaging Development Systems Basic Information, Manufacturing Base and Competitors

Table 89. IDS Imaging Development Systems Major Business

Table 90. IDS Imaging Development Systems GigE Vision Camera Product and Services

Table 91. IDS Imaging Development Systems GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. IDS Imaging Development Systems Recent Developments/Updates

Table 93. IDS Imaging Development Systems Competitive Strengths & Weaknesses

Table 94. Baumer Group Basic Information, Manufacturing Base and Competitors

Table 95. Baumer Group Major Business

Table 96. Baumer Group GigE Vision Camera Product and Services

Table 97. Baumer Group GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Baumer Group Recent Developments/Updates

Table 99. Baumer Group Competitive Strengths & Weaknesses

Table 100. Balluff Basic Information, Manufacturing Base and Competitors

Table 101. Balluff Major Business

Table 102. Balluff GigE Vision Camera Product and Services

Table 103. Balluff GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Balluff Recent Developments/Updates

Table 105. Balluff Competitive Strengths & Weaknesses

Table 106. JAI A/S Basic Information, Manufacturing Base and Competitors

Table 107. JAI A/S Major Business

Table 108. JAI A/S GigE Vision Camera Product and Services

Table 109. JAI A/S GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. JAI A/S Recent Developments/Updates

Table 111. JAI A/S Competitive Strengths & Weaknesses

Table 112. SENTECH Instruments Basic Information, Manufacturing Base and Competitors

Table 113. SENTECH Instruments Major Business

Table 114. SENTECH Instruments GigE Vision Camera Product and Services

Table 115. SENTECH Instruments GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. SENTECH Instruments Recent Developments/Updates

Table 117. SENTECH Instruments Competitive Strengths & Weaknesses

Table 118. Lucid Vision Labs Basic Information, Manufacturing Base and Competitors

Table 119. Lucid Vision Labs Major Business

Table 120. Lucid Vision Labs GigE Vision Camera Product and Services

Table 121. Lucid Vision Labs GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Lucid Vision Labs Recent Developments/Updates

Table 123. Lucid Vision Labs Competitive Strengths & Weaknesses

Table 124. Teledyne DALSA Basic Information, Manufacturing Base and Competitors

Table 125. Teledyne DALSA Major Business

Table 126. Teledyne DALSA GigE Vision Camera Product and Services

Table 127. Teledyne DALSA GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. Teledyne DALSA Recent Developments/Updates

Table 129. Teledyne DALSA Competitive Strengths & Weaknesses

Table 130. Omron Corporation Basic Information, Manufacturing Base and Competitors

Table 131. Omron Corporation Major Business

Table 132. Omron Corporation GigE Vision Camera Product and Services

Table 133. Omron Corporation GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. Omron Corporation Recent Developments/Updates

Table 135. Omron Corporation Competitive Strengths & Weaknesses

Table 136. KEYENCE Corporation Basic Information, Manufacturing Base and Competitors

Table 137. KEYENCE Corporation Major Business

Table 138. KEYENCE Corporation GigE Vision Camera Product and Services

Table 139. KEYENCE Corporation GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 140. KEYENCE Corporation Recent Developments/Updates

Table 141. KEYENCE Corporation Competitive Strengths & Weaknesses

Table 142. Cognex Corporation Basic Information, Manufacturing Base and Competitors

Table 143. Cognex Corporation Major Business

Table 144. Cognex Corporation GigE Vision Camera Product and Services

Table 145. Cognex Corporation GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 146. Cognex Corporation Recent Developments/Updates

- Table 147. Cognex Corporation Competitive Strengths & Weaknesses
- Table 148. Daheng Imaging Basic Information, Manufacturing Base and Competitors
- Table 149. Daheng Imaging Major Business
- Table 150. Daheng Imaging GigE Vision Camera Product and Services
- Table 151. Daheng Imaging GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 152. Daheng Imaging Recent Developments/Updates
- Table 153. Daheng Imaging Competitive Strengths & Weaknesses
- Table 154. Hikvision Basic Information, Manufacturing Base and Competitors
- Table 155. Hikvision Major Business
- Table 156. Hikvision GigE Vision Camera Product and Services
- Table 157. Hikvision GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 158. Hikvision Recent Developments/Updates
- Table 159. Hikvision Competitive Strengths & Weaknesses
- Table 160. MindVision Basic Information, Manufacturing Base and Competitors
- Table 161. MindVision Major Business
- Table 162. MindVision GigE Vision Camera Product and Services
- Table 163. MindVision GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 164. MindVision Recent Developments/Updates
- Table 165. MindVision Competitive Strengths & Weaknesses
- Table 166. OPT Machine Vision Basic Information, Manufacturing Base and Competitors
- Table 167. OPT Machine Vision Major Business
- Table 168. OPT Machine Vision GigE Vision Camera Product and Services
- Table 169. OPT Machine Vision GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 170. OPT Machine Vision Recent Developments/Updates
- Table 171. OPT Machine Vision Competitive Strengths & Weaknesses
- Table 172. LUSTER LightTech Basic Information, Manufacturing Base and Competitors
- Table 173. LUSTER LightTech Major Business
- Table 174. LUSTER LightTech GigE Vision Camera Product and Services
- Table 175. LUSTER LightTech GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 176. LUSTER LightTech Recent Developments/Updates
- Table 177. LUSTER LightTech Competitive Strengths & Weaknesses

- Table 178. Tattile Srl Basic Information, Manufacturing Base and Competitors
- Table 179. Tattile Srl Major Business
- Table 180. Tattile Srl GigE Vision Camera Product and Services
- Table 181. Tattile Srl GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 182. Tattile Srl Recent Developments/Updates
- Table 183. Tattile Srl Competitive Strengths & Weaknesses
- Table 184. Framos Basic Information, Manufacturing Base and Competitors
- Table 185. Framos Major Business
- Table 186. Framos GigE Vision Camera Product and Services
- Table 187. Framos GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 188. Framos Recent Developments/Updates
- Table 189. Framos Competitive Strengths & Weaknesses
- Table 190. XIMEA Basic Information, Manufacturing Base and Competitors
- Table 191. XIMEA Major Business
- Table 192. XIMEA GigE Vision Camera Product and Services
- Table 193. XIMEA GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 194. XIMEA Recent Developments/Updates
- Table 195. XIMEA Competitive Strengths & Weaknesses
- Table 196. NET Basic Information, Manufacturing Base and Competitors
- Table 197. NET Major Business
- Table 198. NET GigE Vision Camera Product and Services
- Table 199. NET GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 200. NET Recent Developments/Updates
- Table 201. NET Competitive Strengths & Weaknesses
- Table 202. Zebra Technologies Corporation Basic Information, Manufacturing Base and Competitors
- Table 203. Zebra Technologies Corporation Major Business
- Table 204. Zebra Technologies Corporation GigE Vision Camera Product and Services
- Table 205. Zebra Technologies Corporation GigE Vision Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 206. Zebra Technologies Corporation Recent Developments/Updates
- Table 207. Zebra Technologies Corporation Competitive Strengths & Weaknesses
- Table 208. Global Key Players of GigE Vision Camera Upstream (Raw Materials)
- Table 209. Global GigE Vision Camera Typical Customers

Table 210. GigE Vision Camera Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. GigE Vision Camera Picture

Figure 2. World GigE Vision Camera Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World GigE Vision Camera Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World GigE Vision Camera Production (2021-2032) & (K Units)

Figure 5. World GigE Vision Camera Average Price (2021-2032) & (US\$/Unit)

Figure 6. World GigE Vision Camera Production Value Market Share by Region (2021-2032)

Figure 7. World GigE Vision Camera Production Market Share by Region (2021-2032)

Figure 8. North America GigE Vision Camera Production (2021-2032) & (K Units)

Figure 9. Europe GigE Vision Camera Production (2021-2032) & (K Units)

Figure 10. China GigE Vision Camera Production (2021-2032) & (K Units)

Figure 11. Japan GigE Vision Camera Production (2021-2032) & (K Units)

Figure 12. South Korea GigE Vision Camera Production (2021-2032) & (K Units)

Figure 13. Taiwan China GigE Vision Camera Production (2021-2032) & (K Units)

Figure 14. GigE Vision Camera Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World GigE Vision Camera Consumption (2021-2032) & (K Units)

Figure 17. World GigE Vision Camera Consumption Market Share by Region (2021-2032)

Figure 18. United States GigE Vision Camera Consumption (2021-2032) & (K Units)

Figure 19. China GigE Vision Camera Consumption (2021-2032) & (K Units)

Figure 20. Europe GigE Vision Camera Consumption (2021-2032) & (K Units)

Figure 21. Japan GigE Vision Camera Consumption (2021-2032) & (K Units)

Figure 22. South Korea GigE Vision Camera Consumption (2021-2032) & (K Units)

Figure 23. ASEAN GigE Vision Camera Consumption (2021-2032) & (K Units)

Figure 24. India GigE Vision Camera Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of GigE Vision Camera by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for GigE Vision Camera Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for GigE Vision Camera Markets in 2025

Figure 28. United States VS China: GigE Vision Camera Production Value Market

Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: GigE Vision Camera Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: GigE Vision Camera Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers GigE Vision Camera Production Market Share 2025

Figure 32. China Based Manufacturers GigE Vision Camera Production Market Share 2025

Figure 33. Rest of World Based Manufacturers GigE Vision Camera Production Market Share 2025

Figure 34. World GigE Vision Camera Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World GigE Vision Camera Production Value Market Share by Type in 2025

Figure 36. 0-20 Fps

Figure 37. 21-60 Fps

Figure 38. 61-120 Fps

Figure 39. 121-240 Fps

Figure 40. 241-999 Fps

Figure 41. World GigE Vision Camera Production Market Share by Type (2021-2032)

Figure 42. World GigE Vision Camera Production Value Market Share by Type (2021-2032)

Figure 43. World GigE Vision Camera Average Price by Type (2021-2032) & (US\$/Unit)

Figure 44. World GigE Vision Camera Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Figure 45. World GigE Vision Camera Production Value Market Share by Manufacturing Process in 2025

Figure 46. CMOS Sensor?Based Camera

Figure 47. CCD Sensor?Based Camera

Figure 48. Backside-Illuminated (BSI) Sensor Camera

Figure 49. Wafer-Level Packaging Camera

Figure 50. World GigE Vision Camera Production Market Share by Manufacturing Process (2021-2032)

Figure 51. World GigE Vision Camera Production Value Market Share by Manufacturing Process (2021-2032)

Figure 52. World GigE Vision Camera Average Price by Manufacturing Process (2021-2032) & (US\$/Unit)

Figure 53. World GigE Vision Camera Production Value by Power Dissipation, (USD Million), 2021 & 2025 & 2032

Figure 54. World GigE Vision Camera Production Value Market Share by Power Dissipation in 2025

Figure 55. Low-Power Cameras

Figure 56. Standard-Power Cameras

Figure 57. High-Power Cameras

Figure 58. World GigE Vision Camera Production Market Share by Power Dissipation (2021-2032)

Figure 59. World GigE Vision Camera Production Value Market Share by Power Dissipation (2021-2032)

Figure 60. World GigE Vision Camera Average Price by Power Dissipation (2021-2032) & (US\$/Unit)

Figure 61. World GigE Vision Camera Production Value by Camera Interface, (USD Million), 2021 & 2025 & 2032

Figure 62. World GigE Vision Camera Production Value Market Share by Camera Interface in 2025

Figure 63. Ethernet Cameras

Figure 64. USB Cameras

Figure 65. CoaXPress Cameras

Figure 66. World GigE Vision Camera Production Market Share by Camera Interface (2021-2032)

Figure 67. World GigE Vision Camera Production Value Market Share by Camera Interface (2021-2032)

Figure 68. World GigE Vision Camera Average Price by Camera Interface (2021-2032) & (US\$/Unit)

Figure 69. World GigE Vision Camera Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 70. World GigE Vision Camera Production Value Market Share by Application in 2025

Figure 71. Robotics

Figure 72. Quality control

Figure 73. Industrial imaging

Figure 74. Others

Figure 75. World GigE Vision Camera Production Market Share by Application (2021-2032)

Figure 76. World GigE Vision Camera Production Value Market Share by Application (2021-2032)

Figure 77. World GigE Vision Camera Average Price by Application (2021-2032) & (US\$/Unit)

Figure 78. GigE Vision Camera Industry Chain

Figure 79. GigE Vision Camera Procurement Model

Figure 80. GigE Vision Camera Sales Model

Figure 81. GigE Vision Camera Sales Channels, Direct Sales, and Distribution

Figure 82. Methodology

Figure 83. Research Process and Data Source

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