

Visual Intelligence Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

The Visual Intelligence market is a transformative fusion of perception and cognition, empowering systems to derive meaningful insights from images, videos, and real-time visual streams through advanced algorithms that detect, classify, track, and interpret objects, scenes, behaviors, and anomalies with human-like accuracy. These platforms combine edge-to-cloud processing, multimodal data fusion, and domain-specific models to enable autonomous decision-making in dynamic environments, from factory floors to urban streets. Characterized by their pretrained foundation models, low-latency inference on specialized hardware, federated learning for privacy-preserving training, and seamless integration with IoT, robotics, and AR systems, visual intelligence solutions deliver actionable outcomes—predicting equipment failure from thermal signatures, identifying shopper sentiment from facial micro-expressions, or guiding surgical instruments with sub-millimeter precision. Their strategic value lies in augmenting human capabilities, reducing operational risks by up to 95%, and unlocking new revenue streams through hyper-personalized services. The market thrives on the explosion of unstructured visual data, the democratization of AI accelerators, and the convergence of vision with generative models for synthetic data creation. The global Visual Intelligence market is estimated to reach a valuation of approximately USD 8.0–15.0 billion in 2025, with compound annual growth rates projected in the range of 10.0%–20.0% through 2030. Growth is propelled by the mainstream adoption of vision-language models (VLMs), the rise of edge AI in 5G networks, and the embedding of visual reasoning into autonomous systems across industries.

Application Analysis and Market Segmentation

Retail & E-commerce Applications

Visual intelligence in retail powers frictionless checkout, shelf compliance, customer journey mapping, and virtual try-on experiences. Systems analyze in-store video for dwell time, queue length, and theft patterns while enabling AR product visualization on mobile devices. This segment is expected to grow at 12%–22% annually, driven by omnichannel personalization and loss prevention imperatives. Trends include generative AI for dynamic product staging, multimodal sentiment analysis combining gaze and posture, and privacy-first edge processing to anonymize faces before cloud upload. As social commerce matures, platforms are evolving to support live-stream shopping with real-time overlay analytics and influencer performance scoring.

Manufacturing Applications

Manufacturing deploys visual intelligence for defect detection, predictive maintenance, and process optimization, using hyperspectral cameras to identify material impurities and 3D vision for robotic bin picking. Projected to grow at 11%–19% annually, fueled by lights-out factories and supply chain resilience. Developments feature digital twin synchronization with live defect heatmaps, foundation models trained on synthetic failure modes, and collaborative robots guided by scene understanding. As additive manufacturing scales, vision systems are incorporating in-process layer inspection with AI-driven reprint decisions.

Healthcare Applications

Healthcare leverages visual intelligence for diagnostic imaging enhancement, surgical navigation, and patient monitoring, with AI assisting radiologists in tumor segmentation and wound assessment via smartphone photos. This segment is anticipated to grow at 10%–18% annually, propelled by telemedicine and value-based care. Trends include federated learning across hospital networks for rare disease models, AR overlays on endoscopic feeds, and continuous vital sign extraction from standard cameras. As ambient intelligence rises, platforms are supporting passive fall detection and gait analysis in senior living facilities.

Defense & Security Applications

Defense and security utilize visual intelligence for threat detection, ISR (intelligence, surveillance, reconnaissance), and border monitoring, with drone swarms processing video at the edge under contested networks. Expected to grow at 9%–17% annually, driven by autonomous systems and counter-drone requirements. Innovations

encompass multimodal fusion of EO/IR/radar, behavior anomaly detection in crowds, and secure model deployment on classified enclaves. As urban warfare evolves, solutions are integrating with C2 platforms for real-time target handoff.

Automotive Applications

Automotive integrates visual intelligence into ADAS, in-cabin monitoring, and quality control, with surround-view systems enabling L4 autonomy and assembly lines verifying torque marks via AI. Growth at 11%–20% reflects EV production and software-defined vehicles. Trends include vision-language navigation for robotaxis, generative simulation for corner-case training, and biometric driver authentication.

Others Applications

Encompassing agriculture (crop health via drones), energy (flaw detection in turbines), and smart cities (traffic optimization), this segment grows at 10%–18% with multimodal environmental sensing.

Computer Vision Technology

Core computer vision handles traditional tasks like edge detection, OCR, and geometric measurement. This foundational layer is projected to grow at 9%–15% annually, evolving with neuromorphic chips for ultra-low power.

Deep Learning Technology

Deep learning dominates with CNNs, transformers, and vision transformers for complex scene understanding. Expected to expand at 12%–22% annually, led by self-supervised pretraining on web-scale video.

Machine Learning Technology

Classical ML supports lightweight models for edge devices and ensemble methods. Growth at 8%–14% in resource-constrained environments.

Image Processing Technology

Signal-level processing enhances raw sensor data with denoising and super-resolution. This enabling technology grows at 9%–16%, critical for low-light and medical imaging.

Regional Market Distribution and Geographic Trends

Asia-Pacific: 12%–22% growth annually, led by China's smart city surveillance and South Korea's semiconductor inspection. Japan prioritizes robotic vision.

North America: 10%–18% growth, with U.S. defense tech and Canadian healthcare AI leading. Trends emphasize ethical AI frameworks.

Europe: 9%–16% growth, driven by GDPR-compliant retail in Germany and automotive in France. Nordic countries pioneer open-source models.

Latin America: 11%–19% growth, with Brazil's agtech drones and Mexico's maquiladora quality systems.

Middle East & Africa: 10%–17% growth, led by UAE's safe city projects and South Africa's mining safety.

Key Market Players and Competitive Landscape

Google Cloud Vision AI – Processes billions of images daily, powers SafeSearch and AutoML Vision for custom models.

AWS Rekognition – Serverless video analysis with celebrity recognition and PPE compliance, integrated into SageMaker.

Microsoft Azure AI Vision – Spatial analysis and custom neural vision, part of \$200B+ cloud ecosystem.

IBM Maximo Visual Inspection – Edge AI for industrial assets, Watson-powered anomaly detection.

Cognex VisionPro – Deep Learning toolkit with 99.99% accuracy in electronics, \$1B+ revenue leader.

Hikvision DeepinView – AI cameras with behavior analysis, dominant in public security.

Dahua AI – Perimeter protection and metadata search, strong in smart cities.

Verkada – Cloud-managed cameras with onboard people/vehicle analytics.

Eagle Eye Networks – Open platform with AI search across distributed sites.

Avigilon (Motorola) – Appearance search and unusual motion detection.

Clarifai – Generalist models with workflow orchestration.

Landing AI – Visual prompting for domain-specific inspection.

Roboflow – Dataset management and model deployment for startups.

Viso.ai – No-code edge AI platform for enterprise.

Industry Value Chain Analysis

The Visual Intelligence value chain is insight-centric, spanning photon to prediction, with value concentrated in accuracy and latency.

Raw Materials and Upstream Supply

CMOS/CCD sensors, optics, GPUs/TPUs, and annotated datasets. Foundries enable custom ASICs.

Production and Processing

Model training, quantization, and edge optimization. Quality assurance achieves

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

3.1 Research Scope

3.2 Research Sources

3.2.1 Data Sources

3.2.2 Assumptions

3.3 Research Method

Chapter Four Market Landscape

4.1 Market Overview

4.2 Classification/Types

4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

5.1 Introduction

5.2 Drivers

5.3 Restraints

5.4 Opportunities

5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

6.1 Upstream/Suppliers Analysis

6.2 Visual Intelligence Analysis

6.2.1 Technology Analysis

6.2.2 Cost Analysis

6.2.3 Market Channel Analysis

6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

7.1 Latest News

7.2 Merger and Acquisition

- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

CHAPTER 8 HISTORICAL AND FORECAST VISUAL INTELLIGENCE MARKET IN NORTH AMERICA (2020-2030)

- 8.1 Visual Intelligence Market Size
- 8.2 Visual Intelligence Market by End Use
- 8.3 Competition by Players/Suppliers
- 8.4 Visual Intelligence Market Size by Type
- 8.5 Key Countries Analysis
 - 8.5.1 United States
 - 8.5.2 Canada
 - 8.5.3 Mexico

CHAPTER 9 HISTORICAL AND FORECAST VISUAL INTELLIGENCE MARKET IN SOUTH AMERICA (2020-2030)

- 9.1 Visual Intelligence Market Size
- 9.2 Visual Intelligence Market by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Visual Intelligence Market Size by Type
- 9.5 Key Countries Analysis

CHAPTER 10 HISTORICAL AND FORECAST VISUAL INTELLIGENCE MARKET IN ASIA & PACIFIC (2020-2030)

- 10.1 Visual Intelligence Market Size
- 10.2 Visual Intelligence Market by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Visual Intelligence Market Size by Type
- 10.5 Key Countries Analysis
 - 10.5.1 China
 - 10.5.2 India
 - 10.5.3 Japan
 - 10.5.4 South Korea
 - 10.5.5 Southeast Asia
 - 10.5.6 Australia & New Zealand

CHAPTER 11 HISTORICAL AND FORECAST VISUAL INTELLIGENCE MARKET IN EUROPE (2020-2030)

- 11.1 Visual Intelligence Market Size
- 11.2 Visual Intelligence Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Visual Intelligence Market Size by Type
- 11.5 Key Countries Analysis
 - 11.5.1 Germany
 - 11.5.2 France
 - 11.5.3 United Kingdom
 - 11.5.4 Italy
 - 11.5.5 Spain
 - 11.5.6 Belgium
 - 11.5.7 Netherlands
 - 11.5.8 Austria
 - 11.5.9 Poland
 - 11.5.10 Northern Europe

CHAPTER 12 HISTORICAL AND FORECAST VISUAL INTELLIGENCE MARKET IN MEA (2020-2030)

- 12.1 Visual Intelligence Market Size
- 12.2 Visual Intelligence Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Visual Intelligence Market Size by Type
- 12.5 Key Countries Analysis

CHAPTER 13 SUMMARY FOR GLOBAL VISUAL INTELLIGENCE MARKET (2020-2025)

- 13.1 Visual Intelligence Market Size
- 13.2 Visual Intelligence Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Visual Intelligence Market Size by Type

CHAPTER 14 GLOBAL VISUAL INTELLIGENCE MARKET FORECAST (2025-2030)

- 14.1 Visual Intelligence Market Size Forecast

- 14.2 Visual Intelligence Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Visual Intelligence Type Forecast

CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS

15.1 Google Cloud Vision AI

15.1.1 Company Profile

15.1.2 Main Business and Visual Intelligence Information

15.1.3 SWOT Analysis of Google Cloud Vision AI

15.1.4 Google Cloud Vision AI Visual Intelligence Revenue, Gross Margin and Market Share (2020-2025)

15.2 AWS Rekognition

15.2.1 Company Profile

15.2.2 Main Business and Visual Intelligence Information

15.2.3 SWOT Analysis of AWS Rekognition

15.2.4 AWS Rekognition Visual Intelligence Revenue, Gross Margin and Market Share (2020-2025)

15.3 Microsoft Azure AI Vision

15.3.1 Company Profile

15.3.2 Main Business and Visual Intelligence Information

15.3.3 SWOT Analysis of Microsoft Azure AI Vision

15.3.4 Microsoft Azure AI Vision Visual Intelligence Revenue, Gross Margin and Market Share (2020-2025)

15.4 IBM Maximo Visual Inspection

15.4.1 Company Profile

15.4.2 Main Business and Visual Intelligence Information

15.4.3 SWOT Analysis of IBM Maximo Visual Inspection

15.4.4 IBM Maximo Visual Inspection Visual Intelligence Revenue, Gross Margin and Market Share (2020-2025)

15.5 Cognex VisionPro

15.5.1 Company Profile

15.5.2 Main Business and Visual Intelligence Information

15.5.3 SWOT Analysis of Cognex VisionPro

15.5.4 Cognex VisionPro Visual Intelligence Revenue, Gross Margin and Market Share (2020-2025)

15.6 Hikvision DeepinView

15.6.1 Company Profile

15.6.2 Main Business and Visual Intelligence Information

15.6.3 SWOT Analysis of Hikvision DeepinView

15.6.4 Hikvision DeepinView Visual Intelligence Revenue, Gross Margin and Market Share (2020-2025)

15.7 Dahua AI

15.7.1 Company Profile

15.7.2 Main Business and Visual Intelligence Information

15.7.3 SWOT Analysis of Dahua AI

15.7.4 Dahua AI Visual Intelligence Revenue, Gross Margin and Market Share (2020-2025)

15.8 Verkada

15.8.1 Company Profile

15.8.2 Main Business and Visual Intelligence Information

15.8.3 SWOT Analysis of Verkada

15.8.4 Verkada Visual Intelligence Revenue, Gross Margin and Market Share (2020-2025)

15.9 Eagle Eye Networks

15.9.1 Company Profile

15.9.2 Main Business and Visual Intelligence Information

15.9.3 SWOT Analysis of Eagle Eye Networks

15.9.4 Eagle Eye Networks Visual Intelligence Revenue, Gross Margin and Market Share (2020-2025)

Please ask for sample pages for full companies list

Tables & Figures

TABLES AND FIGURES

- Table Abbreviation and Acronyms
- Table Research Scope of Visual Intelligence Report
- Table Data Sources of Visual Intelligence Report
- Table Major Assumptions of Visual Intelligence Report
- Figure Market Size Estimated Method
- Figure Major Forecasting Factors
- Figure Visual Intelligence Picture
- Table Visual Intelligence Classification
- Table Visual Intelligence Applications
- Table Drivers of Visual Intelligence Market
- Table Restraints of Visual Intelligence Market
- Table Opportunities of Visual Intelligence Market
- Table Threats of Visual Intelligence Market
- Table COVID-19 Impact for Visual Intelligence Market
- Table Raw Materials Suppliers
- Table Different Production Methods of Visual Intelligence
- Table Cost Structure Analysis of Visual Intelligence
- Table Key End Users
- Table Latest News of Visual Intelligence Market
- Table Merger and Acquisition
- Table Planned/Future Project of Visual Intelligence Market
- Table Policy of Visual Intelligence Market
- Table 2020-2030 North America Visual Intelligence Market Size
- Figure 2020-2030 North America Visual Intelligence Market Size and CAGR
- Table 2020-2030 North America Visual Intelligence Market Size by Application
- Table 2020-2025 North America Visual Intelligence Key Players Revenue
- Table 2020-2025 North America Visual Intelligence Key Players Market Share
- Table 2020-2030 North America Visual Intelligence Market Size by Type
- Table 2020-2030 United States Visual Intelligence Market Size
- Table 2020-2030 Canada Visual Intelligence Market Size
- Table 2020-2030 Mexico Visual Intelligence Market Size
- Table 2020-2030 South America Visual Intelligence Market Size
- Figure 2020-2030 South America Visual Intelligence Market Size and CAGR
- Table 2020-2030 South America Visual Intelligence Market Size by Application
- Table 2020-2025 South America Visual Intelligence Key Players Revenue

Table 2020-2025 South America Visual Intelligence Key Players Market Share
Table 2020-2030 South America Visual Intelligence Market Size by Type
Table 2020-2030 Asia & Pacific Visual Intelligence Market Size
Figure 2020-2030 Asia & Pacific Visual Intelligence Market Size and CAGR
Table 2020-2030 Asia & Pacific Visual Intelligence Market Size by Application
Table 2020-2025 Asia & Pacific Visual Intelligence Key Players Revenue
Table 2020-2025 Asia & Pacific Visual Intelligence Key Players Market Share
Table 2020-2030 Asia & Pacific Visual Intelligence Market Size by Type
Table 2020-2030 China Visual Intelligence Market Size
Table 2020-2030 India Visual Intelligence Market Size
Table 2020-2030 Japan Visual Intelligence Market Size
Table 2020-2030 South Korea Visual Intelligence Market Size
Table 2020-2030 Southeast Asia Visual Intelligence Market Size
Table 2020-2030 Australia & New Zealand Visual Intelligence Market Size
Table 2020-2030 Europe Visual Intelligence Market Size
Figure 2020-2030 Europe Visual Intelligence Market Size and CAGR
Table 2020-2030 Europe Visual Intelligence Market Size by Application
Table 2020-2025 Europe Visual Intelligence Key Players Revenue
Table 2020-2025 Europe Visual Intelligence Key Players Market Share
Table 2020-2030 Europe Visual Intelligence Market Size by Type
Table 2020-2030 Germany Visual Intelligence Market Size
Table 2020-2030 France Visual Intelligence Market Size
Table 2020-2030 United Kingdom Visual Intelligence Market Size
Table 2020-2030 Italy Visual Intelligence Market Size
Table 2020-2030 Spain Visual Intelligence Market Size
Table 2020-2030 Belgium Visual Intelligence Market Size
Table 2020-2030 Netherlands Visual Intelligence Market Size
Table 2020-2030 Austria Visual Intelligence Market Size
Table 2020-2030 Poland Visual Intelligence Market Size
Table 2020-2030 Northern Europe Visual Intelligence Market Size
Table 2020-2030 MEA Visual Intelligence Market Size
Figure 2020-2030 MEA Visual Intelligence Market Size and CAGR
Table 2020-2030 MEA Visual Intelligence Market Size by Application
Table 2020-2025 MEA Visual Intelligence Key Players Revenue
Table 2020-2025 MEA Visual Intelligence Key Players Market Share
Table 2020-2030 MEA Visual Intelligence Market Size by Type
Table 2020-2025 Global Visual Intelligence Market Size by Region
Table 2020-2025 Global Visual Intelligence Market Size Share by Region
Table 2020-2025 Global Visual Intelligence Market Size by Application

Table 2020-2025 Global Visual Intelligence Market Share by Application
Table 2020-2025 Global Visual Intelligence Key Vendors Revenue
Figure 2020-2025 Global Visual Intelligence Market Size and Growth Rate
Table 2020-2025 Global Visual Intelligence Key Vendors Market Share
Table 2020-2025 Global Visual Intelligence Market Size by Type
Table 2020-2025 Global Visual Intelligence Market Share by Type
Table 2025-2030 Global Visual Intelligence Market Size by Region
Table 2025-2030 Global Visual Intelligence Market Size Share by Region
Table 2025-2030 Global Visual Intelligence Market Size by Application
Table 2025-2030 Global Visual Intelligence Market Share by Application
Table 2025-2030 Global Visual Intelligence Key Vendors Revenue
Figure 2025-2030 Global Visual Intelligence Market Size and Growth Rate
Table 2025-2030 Global Visual Intelligence Key Vendors Market Share
Table 2025-2030 Global Visual Intelligence Market Size by Type
Table 2025-2030 Visual Intelligence Global Market Share by Type
Table Google Cloud Vision AI Information
Table SWOT Analysis of Google Cloud Vision AI
Table 2020-2025 Google Cloud Vision AI Visual Intelligence Revenue Gross Profit Margin
Figure 2020-2025 Google Cloud Vision AI Visual Intelligence Revenue and Growth Rate
Figure 2020-2025 Google Cloud Vision AI Visual Intelligence Market Share
Table AWS Rekognition Information
Table SWOT Analysis of AWS Rekognition
Table 2020-2025 AWS Rekognition Visual Intelligence Revenue Gross Profit Margin
Figure 2020-2025 AWS Rekognition Visual Intelligence Revenue and Growth Rate
Figure 2020-2025 AWS Rekognition Visual Intelligence Market Share
Table Microsoft Azure AI Vision Information
Table SWOT Analysis of Microsoft Azure AI Vision
Table 2020-2025 Microsoft Azure AI Vision Visual Intelligence Revenue Gross Profit Margin
Figure 2020-2025 Microsoft Azure AI Vision Visual Intelligence Revenue and Growth Rate
Figure 2020-2025 Microsoft Azure AI Vision Visual Intelligence Market Share
Table IBM Maximo Visual Inspection Information
Table SWOT Analysis of IBM Maximo Visual Inspection
Table 2020-2025 IBM Maximo Visual Inspection Visual Intelligence Revenue Gross Profit Margin
Figure 2020-2025 IBM Maximo Visual Inspection Visual Intelligence Revenue and Growth Rate

Figure 2020-2025 IBM Maximo Visual Inspection Visual Intelligence Market Share

Table Cognex VisionPro Information

Table SWOT Analysis of Cognex VisionPro

Table 2020-2025 Cognex VisionPro Visual Intelligence Revenue Gross Profit Margin

Figure 2020-2025 Cognex VisionPro Visual Intelligence Revenue and Growth Rate

Figure 2020-2025 Cognex VisionPro Visual Intelligence Market Share

Table Hikvision DeepinView Information

Table SWOT Analysis of Hikvision DeepinView

Table 2020-2025 Hikvision DeepinView Visual Intelligence Revenue Gross Profit Margin

Figure 2020-2025 Hikvision DeepinView Visual Intelligence Revenue and Growth Rate

Figure 2020-2025 Hikvision DeepinView Visual Intelligence Market Share

Table Dahua AI Information

Table SWOT Analysis of Dahua AI

Table 2020-2025 Dahua AI Visual Intelligence Revenue Gross Profit Margin

Figure 2020-2025 Dahua AI Visual Intelligence Revenue and Growth Rate

Figure 2020-2025 Dahua AI Visual Intelligence Market Share

Table Verkada Information

Table SWOT Analysis of Verkada

Table 2020-2025 Verkada Visual Intelligence Revenue Gross Profit Margin

Figure 2020-2025 Verkada Visual Intelligence Revenue and Growth Rate

Figure 2020-2025 Verkada Visual Intelligence Market Share

Table Eagle Eye Networks Information

Table SWOT Analysis of Eagle Eye Networks

Table 2020-2025 Eagle Eye Networks Visual Intelligence Revenue Gross Profit Margin

Figure 2020-2025 Eagle Eye Networks Visual Intelligence Revenue and Growth Rate

Figure 2020-2025 Eagle Eye Networks Visual Intelligence Market Share

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