

# Global AI Multifunction Color Sorter Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global AI Multifunction Color Sorter market size is expected to reach \$ 1134 million by 2032, rising at a market growth of 10.3% CAGR during the forecast period (2026-2032).

AI Multifunction Color Sorter market refers to advanced optical sorting systems that combine machine vision, multi-sensor detection, and AI-based classification to handle a wider range of materials and sorting objectives than conventional single-purpose color sorters. These systems are designed not only for basic color separation, but also for defect detection, foreign material removal, and multi-grade quality classification across multiple product types. They are increasingly adopted in modern processing lines where producers require flexible equipment that can switch between different crops or materials while maintaining high sorting accuracy and stable throughput.

In 2025, global AI Multifunction Color Sorter production reached approximately 33.5k units, with an average global market price of around US\$ 16,500 per unit. Demand growth is driven by rising quality standards in food processing, higher labor costs, and the need for yield optimization in grains, nuts, seeds, tea, coffee, and selected recycling applications. Compared with entry-level color sorters, multifunction AI models justify higher ASPs by delivering broader defect coverage, better classification capability, and reduced reliance on manual inspection, which supports faster payback for high-volume processors.

The industry chain includes upstream components such as high-speed industrial cameras, lenses, LED illumination modules, NIR/multi-spectral sensors, computing boards, air ejector valves, and precision mechanical feeding systems. Midstream manufacturers differentiate through system integration, AI model training, software tuning, and after-sales service capabilities such as calibration, application adaptation, and algorithm updates. Gross margin is typically stronger than in standard color sorting equipment because multifunction models have higher system complexity, more software

value, and greater customer stickiness. However, margins can still be pressured by intensifying competition, standardized hardware sourcing, and customers' focus on total cost of ownership, pushing vendors to maintain differentiation through application-specific performance and service responsiveness.

This report studies the global AI Multifunction Color Sorter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Multifunction Color Sorter 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 AI Multifunction Color Sorter that contribute to its increasing demand across many markets.

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

Global AI Multifunction Color Sorter total production and demand, 2021-2032, (Units)

Global AI Multifunction Color Sorter total production value, 2021-2032, (USD Million)

Global AI Multifunction Color Sorter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global AI Multifunction Color Sorter consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: AI Multifunction Color Sorter domestic production, consumption, key domestic manufacturers and share

Global AI Multifunction Color Sorter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global AI Multifunction Color Sorter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global AI Multifunction Color Sorter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global AI Multifunction Color Sorter 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 Tomra, Buhler (SORTEX), Satake, Hefei Meyer Optoelectronic Technology Inc., Cimbria, Key Technology (Duravant), DAEWON GSI CO., LTD., National Recovery Technologies (NRT), 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 AI Multifunction Color Sorter market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 AI Multifunction Color Sorter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Multifunction Color Sorter Market, Segmentation by Type:

Food Grade Color Sorter

Industrial Grade Color Sorter

Global AI Multifunction Color Sorter Market, Segmentation by Sensing Technology:

RGB Vision Sorter

NIR Sorter

Others

Global AI Multifunction Color Sorter Market, Segmentation by AI Capability Level:

Rule-based + Basic AI

Deep Learning Defect Detection

Others

Global AI Multifunction Color Sorter Market, Segmentation by Application:

Grains & Rice

Nuts & Seeds

Tea / Coffee Beans

Plastics Recycling

Others

**Companies Profiled:**

Tomra

Buhler (SORTEX)

Satake

Hefei Meyer Optoelectronic Technology Inc.

Cimbria

Key Technology (Duravant)

DAEWON GSI CO., LTD.

National Recovery Technologies (NRT)

**Key Questions Answered:**

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

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