

Global CCD Sensor Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G28AE9B3897DEN.html>

Date: May 2026

Pages: 99

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

ID: G28AE9B3897DEN

Abstracts

The global CCD Sensor market size is expected to reach \$ 1016 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

CCD sensor is a charge coupled device image sensor, which is a semiconductor imaging device that converts light signals into charge signals and forms image data through charge transfer, readout amplification, and analog-to-digital conversion. Its core structure usually includes a photosensitive pixel array, charge storage area, transfer gate, readout register, output amplifier, and packaging window, etc. It has the characteristics of good imaging uniformity, low noise, high dynamic range, high sensitivity, and low image distortion. CCD sensors can be divided into area array CCD, line array CCD, TDI line array CCD, full frame transfer CCD, frame transfer CCD, inter line transfer CCD, black and white CCD, color CCD, ultraviolet enhanced CCD, near-infrared enhanced CCD, etc. They are mainly used in industrial inspection, scientific imaging, astronomical observation, spectral analysis, medical imaging, aerospace remote sensing, security monitoring, microscopic imaging, and high-end machine vision fields. In 2025, global CCD Sensor production reached approximately 17.68 M Units, with an average global market price of around US\$ 38 per unit.

CCD sensors belong to mature image sensor technology, and the overall market has shifted from large-scale applications of consumer cameras, security monitoring, and ordinary industrial cameras to specialized sub scenarios such as scientific instruments, aerospace remote sensing, spectral analysis, astronomical observation, medical imaging, and high-end industrial detection. CMOS and sCMOS image sensors, with their advantages of low power consumption, high integration, high frame rate, low cost, and supply chain expansion, are continuously replacing traditional CCDs. Recent scientific imaging research has also pointed out that modern sCMOS has become an

important alternative to CCDs in terms of low readout noise, high dynamic range, and faster frame rate. However, CCD still has value in low noise, pixel consistency, large pixel size, high dynamic range, and some special spectral response scenarios, especially in aerospace payloads, astronomical telescopes, Raman spectroscopy, fluorescence imaging, electron microscopy imaging, and highly reliable industrial testing, which still maintain stable demand. The future market will not be dominated by large-scale consumption of electronic products, but will be characterized by small batches, high unit prices, long lifespan, high reliability, and customization. The focus of enterprise competition will be on low-noise readout, back illuminated processes, large target area arrays, deep refrigeration packaging, irradiation reliability, long-term supply, and joint verification capabilities with scientific instruments and aerospace customers.

This report studies the global CCD Sensor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global CCD Sensor total production and demand, 2021-2032, (Million Units)

Global CCD Sensor total production value, 2021-2032, (USD Million)

Global CCD Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global CCD Sensor consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: CCD Sensor domestic production, consumption, key domestic manufacturers and share

Global CCD Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global CCD Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global CCD Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global CCD Sensor 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 Sony, Hamamatsu, Samsung, Onsemi, Canon, Panasonic, Teledyne Technologies, Sharp, Fairchild Imaging, Toshiba Electronic Devices & Storage 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 CCD Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 CCD Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CCD Sensor Market, Segmentation by Type:

Full-Frame CCDs

Interline-Transfer CCDs

Frame-Transfer CCDs

Global CCD Sensor Market, Segmentation by Array Structure:

Linear CCD Sensor

Area Array CCD Sensor

Global CCD Sensor Market, Segmentation by Size:

1/4 Inch

1/3 Inch

1/2 Inch

2/3 Inch

1 Inch

4/3 Inch

Others

Global CCD Sensor Market, Segmentation by Application:

Camera

Scanner

Copier

Aerospace

Industrial

Other

Companies Profiled:

Sony

Hamamatsu

Samsung

Onsemi

Canon

Panasonic

Teledyne Technologies

Sharp

Fairchild Imaging

Toshiba Electronic Devices & Storage Corporation

Key Questions Answered:

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

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