

Global Welding Camera Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Welding Camera market size is expected to reach \$ 307 million by 2032, rising at a market growth of 8.5% CAGR during the forecast period (2026-2032).

In 2025, global Welding Camera production reached approximately 22,000 units, with an average global market price of around 7,500 US\$/unit.

Welding Camera is a dedicated visual monitoring device or camera system designed for observing, recording, and analyzing welding processes under intense arc light, heat, spatter, smoke, and high-contrast illumination conditions. Unlike ordinary industrial cameras, welding cameras usually integrate optical filtering, high dynamic range imaging, protective housings, cooling or shielding structures, and sometimes laser illumination or image-processing software, enabling operators, robots, engineers, and quality teams to clearly view the weld pool, arc behavior, seam position, filler wire, torch alignment, bead formation, and process defects in real time or after recording.

Demand for Welding Cameras is growing as welding operations shift from manual observation to remote monitoring, robotic welding, automated quality control, and traceable production. Key demand comes from automotive manufacturing, shipbuilding, pressure vessels, pipelines, aerospace, heavy machinery, EV battery welding, laser welding, and welding education, where operators need safer viewing, fewer rework cycles, higher weld consistency, and process-data records. Business opportunities are strongest in high-end arc and laser welding monitoring, AI-based defect recognition, robotic seam tracking, melt-pool analysis, compact camera modules for welding cells, and integrated camera-software packages for Industry 4.0 production lines.

This report studies the global Welding Camera production, demand, key manufacturers,

and key regions.

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

Highlights and key features of the study

Global Welding Camera total production and demand, 2021-2032, (Units)

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

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

Global Welding Camera consumption by region & country, CAGR, 2021-2032 & (Units)

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

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

Global Welding Camera production by Imaging Spectrum / Light Source, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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

This report profiles key players in the global Welding 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 Cavitar, Xiris Automation, MeltTools, InterTest, ESAB, Visible Welding, Baton, Redman Controls & Electronics, A-JIN WELL TECH, CRNT, 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 Welding Camera market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Imaging Spectrum / Light Source, 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 Welding Camera Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Welding Camera Market, Segmentation by Imaging Spectrum / Light Source:

Visible-Light Welding Camera

Near-Infrared Welding Camera

Thermal Infrared Welding Camera

Laser-Assisted Welding Camera

Others

Global Welding Camera Market, Segmentation by System Configuration:

Standalone Welding Camera

Camera With Monitor System

Camera With Recording System

Robotic Welding Vision Camera

Integrated Weld Monitoring System

Others

Global Welding Camera Market, Segmentation by Dynamic Range Level:

Standard Dynamic Range: 120 dB

Global Welding Camera Market, Segmentation by Application:

Automotive

Shipbuilding and Offshore Engineering

Aerospace and Defense

Oil and Gas

Heavy Machinery

Railway and Transportation

Others

Companies Profiled:

Cavitar

Xiris Automation

MeltTools

InterTest

ESAB

Visible Welding

Baton

Redman Controls & Electronics

A-JIN WELL TECH

CRNT

Miller Electric

Liburdi Dimetrics

Kron Technologies

SERVO-ROBOT

Harbin Weir Welding

Nippon Sanso Holdings

OTOS Tech

Key Questions Answered:

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

6. What are the growth factors driving the market demand?

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