

Global Optical Measurement Video Extensometer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Optical Measurement Video Extensometer market size was valued at US\$ 80.98 million in 2025 and is forecast to a readjusted size of US\$ 126 million by 2032 with a CAGR of 6.8% during review period.

Optical measurement video extensometers are camera-based measuring systems for materials testing. During the test, one or more cameras capture images of the specimen, which are digitized and forwarded to the testing software. An image-to-image comparison is used to evaluate shifts on the specimen. For strain measurement with a video extensometer, an initial gauge length must be defined. The initial gauge length is identified by manual or virtual gauge marks. In 2024, global Optical Measurement Video Extensometer production reached approximately 1920 units, with an average global market price of around 41 K USD/Unit. The production capacity of Optical Measurement Video Extensometer reaches 2400 units, and the industry's gross profit margin is approximately 30% to 50%.

The optical measurement video extensometer industry chain encompasses three major segments: upstream core components, midstream equipment manufacturing and software development, and downstream applications and services. The upstream segment primarily includes high-resolution industrial cameras, optical lenses, LED light sources, and computing hardware, which have high technological barriers. The midstream segment consists of system integrators responsible for hardware assembly, calibration algorithm development, digital image correlation (DIC) software platform construction, and integration with testing machines. The downstream segment is widely used in aerospace, new energy vehicles, semiconductors, university research

institutions, and third-party testing organizations, with demand driven by the intensity of materials research and development, intelligent manufacturing upgrades, and international testing standards.

This report is a detailed and comprehensive analysis for global Optical Measurement Video Extensometer market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Optical Measurement Video Extensometer market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Optical Measurement Video Extensometer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Optical Measurement Video Extensometer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Optical Measurement Video Extensometer market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Optical Measurement Video Extensometer
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Optical Measurement Video Extensometer market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments.

Key companies covered as a part of this study include ZwickRoell, Instron, Ametek, Shimadzu, LINCONST TECH, Epsilon Technology, X-Sight, Imetrum, Haytham, BESMAK, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Optical Measurement Video Extensometer market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Resolution Less than 0.5?m

Resolution Between 0.5-2?m

Resolution More than 2?m

Market segment by Measurement Dimensions

2D Video Extensometer

3D Video Extensometer

Market segment by Application

Metal Measurement

Plastic Measurement

Composite Material Measurement

Others

Major players covered

ZwickRoell

Instron

Ametek

Shimadzu

LINCONST TECH

Epsilon Technology

X-Sight

Imetrum

Haytham

BESMAK

XTOP 3D Technology

3R labo

UNIVER

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Optical Measurement Video Extensometer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Optical Measurement Video Extensometer, with price, sales quantity, revenue, and global market share of Optical Measurement Video Extensometer from 2021 to 2026.

Chapter 3, the Optical Measurement Video Extensometer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Optical Measurement Video Extensometer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Optical Measurement Video Extensometer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Optical Measurement Video Extensometer.

Chapter 14 and 15, to describe Optical Measurement Video Extensometer sales channel, distributors, customers, research findings and conclusion.

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