

# Global Laser Speckle Contrast Imaging (LSCI) Equipment Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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## **Abstracts**

According to our (Global Info Research) latest study, the global Laser Speckle Contrast Imaging (LSCI) Equipment market size was valued at USD 59 million in 2022 and is forecast to a readjusted size of USD 102.6 million by 2029 with a CAGR of 8.3% during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

Compared with other existing imaging technologies, laser speckle contrast imaging has several obvious advantages. It can uses simple and cost-effective instrument to return excellent spatial and temporal resolution imaging. And due to these strengths, laser speckle contrast imaging has been involved in mapping blood flow for decades. The utilize of LSCI has been extended to many subjects in the biomedical field which include but are not limited to rheumatology, burns, dermatology, neurology, gastrointestinal tract surgery, dentistry, cardiovascular research. LSCI can be adopted into another system easily for clinical full-field monitoring, measuring, and investigating living processes in almost real-time scale.

Laser speckle contrast imaging (LSCI) which can also be called laser speckle imaging (LSI) is an imaging modality based on the analysis of the blurring effect of the speckle pattern. The operation of LSCI is having a wide-field illumination of a rough surface through a coherent light source. Then using photodetectors such as CCD camera or CMOS sensors imaging the resulting laser speckle pattern caused by the interference of coherent light. In biomedical use, the coherent light is typically in the red or near-infrared region to ensure higher penetration depth. When scattering particles moving during the time, the interference caused by the coherent light will have fluctuations which will lead to the intensity variations detected via the photodetector, and this



change of the intensity contain the information of scattering particles' motion. Through image the speckle patterns with finite exposure time, areas with scattering particles will appear blurred.

This report is a detailed and comprehensive analysis for global Laser Speckle Contrast Imaging (LSCI) Equipment 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 2023, are provided.

#### Key Features:

Global Laser Speckle Contrast Imaging (LSCI) Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Laser Speckle Contrast Imaging (LSCI) Equipment market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Laser Speckle Contrast Imaging (LSCI) Equipment market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Laser Speckle Contrast Imaging (LSCI) Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

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 Laser Speckle Contrast Imaging (LSCI) Equipment

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 Laser Speckle Contrast Imaging (LSCI) Equipment 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 RWD Life Science, Perimed, Moor Instruments, Shanghai Aifei Electronic Technology and Yuyan Instruments, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Market Segmentation

Laser Speckle Contrast Imaging (LSCI) Equipment market is split by Type and by Application. For the period 2018-2029, 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

**CCD** Camera

**CMOS Sensors** 

Market segment by Application

Medicine

Veterinary

Major players covered

**RWD Life Science** 

Perimed



Moor Instruments

Shanghai Aifei Electronic Technology

Yuyan Instruments

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 Laser Speckle Contrast Imaging (LSCI) Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Laser Speckle Contrast Imaging (LSCI) Equipment, with price, sales, revenue and global market share of Laser Speckle Contrast Imaging (LSCI) Equipment from 2018 to 2023.

Chapter 3, the Laser Speckle Contrast Imaging (LSCI) Equipment competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Laser Speckle Contrast Imaging (LSCI) Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share



and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022.and Laser Speckle Contrast Imaging (LSCI) Equipment market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Laser Speckle Contrast Imaging (LSCI) Equipment.

Chapter 14 and 15, to describe Laser Speckle Contrast Imaging (LSCI) Equipment sales channel, distributors, customers, research findings and conclusion.



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