

Global Flat Panel Display (FPD) Inspection Equipment Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

A liquid crystal display, which is the most typical kind of flat panel display (FPD), consists of two sheets of glass (8th generation substrates are 2,200 x 2,500 mm in size) separated by a 5 ?m gap containing liquid crystals (solid or liquid intermediate material with crystalline properties) through which an image can be projected by applying an electric current to the liquid crystals to control the passage of light. This technology takes advantage of the properties of liquid crystals that enable them to both maintain the same orientation with respect to each other and change orientation when a voltage is applied. A large part of the process of creating a liquid crystal display is the formation of the circuits on the glass substrate.

A FPD test is a test conducted during the flat panel display (FPD) manufacturing process, these tests are aimed to check panel functions and to evaluate the manufacturing processes.

To test panel functions in the array process, an Cell Test is conducted using an Cell Tester and an array prober. This test is intended to test the functionality of the TFT array circuit formed for the panel on the glass substrate and detect any wire breakage or short circuit.

Meanwhile, to test the manufacturing process in the array process for the purpose of checking whether the manufacturing process has succeeded or failed and providing feedback to the previous process, TEG testing is conducted using a DC parametric tester and a TEG prober. ("TEG" stands for test element group, which comprises TFT, capacity element, wire element, and other elements of an array circuit.)

According to our (Global Info Research) latest study, the global Flat Panel Display (FPD) Inspection Equipment market size was valued at US\$ 482 million in 2023 and is forecast to a readjusted size of USD 767 million by 2030 with a CAGR of 6.9% during review period.

Global Flat Panel Display (FPD) Inspection Equipment key players include Orbotech, Agilent, KOH YOUNG, Mirtec, Vi Technology, etc. Global top five manufacturers hold a share over 40%.

Asia-Pacific is the largest market, with a share about 45%, followed by Americas and Europe, both have a share about 50 percent.

In terms of product, Array Test is the largest segment, with a share about 50%. And in terms of application, the largest application is LCDs, followed by LEDs.

This report is a detailed and comprehensive analysis for global Flat Panel Display (FPD) Inspection 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 2024, are provided.

Key Features:

Global Flat Panel Display (FPD) Inspection Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2019-2030

Global Flat Panel Display (FPD) Inspection Equipment market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2019-2030

Global Flat Panel Display (FPD) Inspection Equipment market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2019-2030

Global Flat Panel Display (FPD) Inspection Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2019-2024

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 Flat Panel Display (FPD) Inspection 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 Flat Panel Display (FPD) Inspection Equipment 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 Orbotech, Soonhan, Agilent, KOH YOUNG, Mirtec, Viscom, Vi Technology, Saki, Omron, Cyberoptics, etc.

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

Market Segmentation

Flat Panel Display (FPD) Inspection Equipment market is split by Type and by Application. For the period 2019-2030, 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

Array Test

Cell Test

Module Test

Market segment by Application

LCDs

LEDs

Others

Major players covered

Orbotech

Soonhan

Agilent

KOH YOUNG

Mirtec

Viscom

Vi Technology

Saki

Omron

Cyberoptics

Nordson

Camtek

MJC

Takano

Market segment by region, regional analysis covers

Global Flat Panel Display (FPD) Inspection Equipment Market 2024 by Manufacturers, Regions, Type and Applicati...

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 Flat Panel Display (FPD) Inspection Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Flat Panel Display (FPD) Inspection Equipment, with price, sales quantity, revenue, and global market share of Flat Panel Display (FPD) Inspection Equipment from 2019 to 2024.

Chapter 3, the Flat Panel Display (FPD) Inspection Equipment competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Flat Panel Display (FPD) Inspection Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

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 2019 to 2030.

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 2019 to 2024. and Flat Panel Display (FPD) Inspection Equipment market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

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 Flat Panel Display (FPD) Inspection Equipment.

Chapter 14 and 15, to describe Flat Panel Display (FPD) Inspection Equipment sales channel, distributors, customers, research findings and conclusion.

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