

Global PCD Minority Carrier Lifetime Tester Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G835DFE13445EN.html>

Date: October 2025

Pages: 87

Price: US\$ 3,132.00 (Single User License)

ID: G835DFE13445EN

Abstracts

According to our (Global Info Research) latest study, the global PCD Minority Carrier Lifetime Tester market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Photoconductance decay or Photoconductivity decay (PCD or PC), is a non-destructive analytical technique used to measure the lifetime of minority charge carriers in a semiconductor, especially in silicon wafers. The technique studies the transient photoconductivity of a semiconductor sample during or after it is illuminated by a light pulse. Electron-hole pairs are first generated by the light pulse, and the photoconductivity of the sample declines as the carriers recombine.

Photoconductance decay is currently the most commonly used method for measuring minority carrier lifetime in the world. It mainly includes microwave photoconductance decay (μ-PCD) and quasi-steady state photoconductance (QSSPC).

This report is a detailed and comprehensive analysis for global PCD Minority Carrier Lifetime Tester 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 PCD Minority Carrier Lifetime Tester market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global PCD Minority Carrier Lifetime Tester market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global PCD Minority Carrier Lifetime Tester market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global PCD Minority Carrier Lifetime Tester market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

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 PCD Minority Carrier Lifetime Tester
- 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 PCD Minority Carrier Lifetime Tester 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 Freiberg Instruments, Sinton Instruments, Semilab, Napson Corporation, Beijing Henergy Solar, Beijing Zhuolihanguang Instrument, etc.

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

Market Segmentation

PCD Minority Carrier Lifetime Tester market is split by Type and by Application. For the period 2020-2031, 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

Quasi-Steady-State Photoconductance (QSSPC)

Microwave Photoconductance Decay (?-PCD)

Others

Market segment by Application

Semiconductor Devices

Photovoltaic Cells

Others

Major players covered

Freiberg Instruments

Sinton Instruments

Semilab

Napson Corporation

Beijing Henergy Solar

Beijing Zhuolihanguang Instrument

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 PCD Minority Carrier Lifetime Tester product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PCD Minority Carrier Lifetime Tester, with price, sales quantity, revenue, and global market share of PCD Minority Carrier Lifetime Tester from 2020 to 2025.

Chapter 3, the PCD Minority Carrier Lifetime Tester competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PCD Minority Carrier Lifetime Tester breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and PCD Minority Carrier Lifetime Tester market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 PCD Minority Carrier Lifetime Tester.

Chapter 14 and 15, to describe PCD Minority Carrier Lifetime Tester sales channel, distributors, customers, research findings and conclusion.

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