

Global Terahertz Technologies Market Revenues to Reach USD 1.75 billion by 2028 - Market Size, Share, Forecasts, & Trends Analysis Report by Mordor Intelligence

According to a new market research report titled "[Terahertz Technologies Market Report \(2023-2028\)](#)," the market is estimated at USD 620.89 million in 2023. It is expected to register a CAGR of 23.14% during the forecast period.

Terahertz (THz) technology is a new and emerging field that reflects significant advancements on the scientific front. The range of frequencies known as terahertz spans from 0.1 THz to 3 THz. It is applicable in developing scenarios like passenger scanning at airports to large digital data transfers. Despite its huge potential, it remains unexplored and underdeveloped.

Report Summary:

Report Attribute	Details
Market Size (2023)	USD 620.89 million
Market Size (2028)	USD 1.75 billion
CAGR (2023-2028)	23.14%
Study Period	2018-2028
Fastest Growing Market	Asia-Pacific
Largest Market	North America
Forecast Units	Value (USD billion)
Report Scope	Market Dynamics, Revenue Forecast and Segmentation, Competitive Landscape and Recent Developments, Market Growth, Future Opportunities, and Trends
Key Market Drivers	Immense untapped potential in new fields.
	Major applications in healthcare, biomedical, security, and several others.
	Unique properties that differentiate it from other technologies.

Who are the Top Companies in the Global Terahertz Technologies Market?

The terahertz technologies market is moderately fragmented. Major players in the market are establishing partnerships, innovations, company expansion, and acquisitions as strategies to gain a competitive advantage over each other.

These are the significant players in the global terahertz technologies market in 2023 that hold majority market shares –

- Luna Innovations
- Teravil Ltd

- TeraView Limited
- Toptica Photonics AG
- HÜBNER GmbH & Co. KG
- Advantest Corporation
- BATOP GmbH
- Terasense GP Inc.
- Microtech Instrument Inc.
- Menlo Systems GmbH
- Gentec Electro-optics Inc.
- Bakman Technologies LLC

Other Reports That Might Be of Your Interest:

- [Document Scanner Market Report](#) - The document scanner market size is expected to grow from USD 6.09 billion in 2023 to USD 7.80 billion by 2028, at a CAGR of 5.09% during 2023-2028.
- [Security Screening Market Report](#) - The security screening market size is estimated at USD 7.14 billion in 2023. It is expected to reach USD 9.81 billion by 2028, registering a CAGR of 6.57% during 2023-2028.

Key Highlights from the Global Terahertz Technologies Market Report:

Emerging Applications in Defense and Security

- Concealed weapons and explosives worn on the body have become a major threat in security environments all over the world. Terahertz beams can even detect ceramic knives or plastic explosives quickly and effectively, whereas metal detection and X-ray scanning can be time-consuming.
- Terahertz technology can scan many people without requiring them to stop for a security check. It helps security personnel carry out checks at a distance from the potential source.
- THz sensors have conceivable military applications in intelligence, surveillance, and reconnaissance (ISR), including detecting isolated personnel behind enemy lines, fixing targets, and terminal guidance of precision weapons.

Increasing Security Requirements in the North American Region

- The United States is a crucial market for terahertz technologies due to growing homeland security issues and heavy investments in defense and R&D.
- The demand for security screening equipment in Canada is also growing across public spaces. Thus, companies are focusing on producing a comprehensive range of technologically complex products for domestic and competitive global markets.

What are the Latest Developments in the Global Terahertz Technologies Market?

- In February 2023, TeraView Limited partnered with ACE Solution to launch TZ6000, a non-destructive wafer quality measurement tool for the compound semiconductor industry.
- In August 2022, Advantest Corporation acquired CREA, a power semiconductor test system based in Italy, to capture the future growth of the power semiconductor tester market.

Mordor Intelligence has Segmented the Global Terahertz Technologies Market Based on Type of Technology, End-user Industry, and Geography:

- Type of Technology (Market Size and Forecast based on Value (USD billion), 2018-2028)
 - Terahertz Imaging Systems
 - Active System
 - Passive System
 - Terahertz Spectroscopy Systems
 - Time Domain
 - Frequency Domain
 - Communication Systems

- End-user Industry (Market Size and Forecast based on Value (USD billion), 2018-2028)
 - Healthcare
 - Defense and Security
 - Telecommunications
 - Industrial
 - Food and Agriculture
 - Laboratories
 - Other End Users

- By Geography (Market Size and Forecast based on Value (USD billion), 2018-2028)
 - North America
 - United States
 - Canada
 - Europe
 - United Kingdom
 - Germany
 - France
 - Spain
 - Rest of Europe
 - Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
 - Rest of Asia-Pacific
 - Latin America
 - Middle East & Africa

In a nutshell, the Mordor Intelligence market research report is a must-read for start-ups, industry players, investors, researchers, consultants, business strategists, and all those who are looking to understand this industry. Get a glance at the [Terahertz Technologies Market Report \(2023-2028\)](#).

Mordor Intelligence constantly tracks industry trends. Some relevant market reports from the analysts that might be of interest to you:

- [Gesture Recognition in Retail Market Report](#) - Gesture recognition in the retail market is expected to register a CAGR of 12.31% over the next five years.
- [Millimeter Wave Technology Market Report](#) - The millimeter wave technology market is expected to register a CAGR of 34.56% over the next five years.
- [Passive Electronic Components Market in Aerospace & Defense Industry Report](#) - The passive electronic components market in the aerospace & defense industry is valued at USD 2.67 billion in 2023. It is expected to register a CAGR of around 4% over the next five years to reach USD 3.4 billion by 2028.

About Mordor Intelligence:

[Mordor Intelligence](#) is a market intelligence and advisory firm. At Mordor Intelligence, we believe in predicting butterfly effects that have the potential to change or significantly impact market dynamics.

Our market research reports are comprehensive and provide exclusive data, facts and figures, trends, and the competitive landscape of the industry.