

Terahertz Components and Systems Market (By Component: Terahertz Sources, Terahertz Detectors; By System: Spectroscopy, Terahertz Radar and Terahertz Sensing; By Application: Industrial Process Monitoring, Research Laboratory Application, Medical Imaging, Non Destructive Testing; By Geography: North America, Europe, Asia-Pacific and RoW) Global Scenario, Market Size, Outlook, Trend and Forecast, 2015-2024

<https://marketpublishers.com/r/T83157A3734EN.html>

Date: July 2017

Pages: 120

Price: US\$ 3,195.00 (Single User License)

ID: T83157A3734EN

Abstracts

Global Terahertz Components and Systems Market is estimated to reach \$433.6 Million by 2024 with CAGR of 26.8% between 2016 and 2024. Research and development into terahertz technology have been receiving high attention around the world. Terahertz waves also called as undeveloped electromagnetic waves fall between radio waves and light in the frequency spectrum and have the ability to pass through cloths, cardboard, paper, masonry, wood, plastics, and ceramics. The sources for terahertz are thermal (lamp bodies), electrical (gunn diodes, backward wave oscillators), and optical or laser based, among others. They are highly used in remote sensing, astronomy, medical testing, drug detection, and communications among others.

Major drivers of global terahertz components and systems market are Increasing application of terahertz technology across several sectors, improved use of this technology in laboratories, expanding utilization of terahertz in medical imaging & non-destructive testing. Though, limitation in penetration depth into materials and disability to focus on spot sizes below 100 micrometer may hinder the growth of the market. Additionally, increasing applications in various sectors & technologies with inexpensive

small radiation devices and detectors would provide growth opportunity in the upcoming years.

The global terahertz components and systems market is segmented into components, systems, applications and geography. Component type is further bifurcated into terahertz sources, terahertz detectors and others. Systems are segmented into system based on spectroscopy (time-domain spectroscopy, frequency domain spectroscopy and imaging by scanning), terahertz radar and terahertz sensing. Furthermore, applications are segmented into industrial process monitoring, research laboratory application, medical imaging, non-destructive testing and others.

By geography, the market is segmented into North America, Europe, Asia-Pacific and Rest of the World (RoW). The U.S., Canada and Mexico are covered under North America wherein Europe covers U.K., Italy, France, Germany and others. Asia-Pacific covers China, India, Japan, South Korea and others. Rest of the World (RoW) covers South America, Middle East and Africa.

Key players of terahertz component and systems market include EMCORE Corporation, Digital Barriers Plc., Microtech Instruments Inc., NEC Corporation, Bridge12 Technologies, Inc., Digital Barriers PLC, Applied Research & Photonics Inc., M Squared Lasers Ltd, Bruker Corporation and Menlo Systems GmbH.

THE KEY TAKEAWAYS FROM THE REPORT

The report will provide detailed analysis of Terahertz Components and Systems Market with respect to major segments such as components, systems and applications type of the market

The report will include the qualitative and quantitative analysis with market estimation over 2015-2024 and compound annual growth rate (CAGR) between 2016 and 2024

Comprehensive analysis of market dynamics including factors and opportunities will be provided in the report

An exhaustive regional analysis of Terahertz Components and Systems market will be included in the report

Profile of the key players of the Terahertz Components and Systems market, will be provided, which include key financials, product & services, new developments, and business strategies

Scope of Terahertz Components and Systems Market

Component Type Segments

Terahertz Sources

Terahertz Detectors

Other Components

System Type Segments

Spectroscopy

Time-Domain Spectroscopy

Frequency Domain Spectroscopy

Imaging By Scanning

Terahertz Radar

Terahertz Sensing

Terahertz Radar

Terahertz Sensing

Application Segments

Industrial Process Monitoring

Research Laboratory Application

Medical Imaging

Non Destructive Testing

Other Applications

Geography Segments

North America

US

Canada

Mexico

Europe

U.K.

Italy

France

Germany

Others

Asia-Pacific

China

India

Japan

South Korea

Others

RoW

South America

Middle East

Africa

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