

# North America Terahertz Technology Market to Gain a Revenue of US\$ 4,620.28 Million By 2030

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/EINPresswire.com/ -- [North America Terahertz Technology market](https://www.astuteanalytica.com/request-sample/north-america-terahertz-technology-market) is recording an unprecedented growth trajectory, with revenue projected to rise at a staggering CAGR of 38.4% between 2023 and 2031. As per the latest market report, the market recorded revenue of US\$ 272.65 Mn in 2022 and is estimated to reach US\$ 4,620.28 Mn by 2031.

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According to Astute Analytica, Terahertz technology adoption in North America has a significant potential for expansion across various sectors, from fundamental sciences like biochemical spectroscopy and astronomy to applied ones like environmental science, medicine, agriculture, and security. The US Department of Commerce's data shows that the aircraft industry's export sales to the US economy were US\$ 118.5 billion. The number of large commercial aircraft is expected to increase by 3.5% year for the next 20 years, reaching 34,000 aircraft valued at almost US\$ 4.5 trillion. Thus, the increase in demand for aircraft significantly grows the terahertz-based inspection system.

## Terahertz Imaging Technology is Gaining Popularity Among End-Users

In 2022, the imaging segment dominated the North America terahertz technology market and is likely to grow 38.2% during 2023-2031. Terahertz imaging is becoming common in sectors like medicine and healthcare because of its capacity to penetrate dense objects like cloth, paper, wood, and ceramics as well as clouds and fog. Terahertz waves are also non-invasive and non-ionizing, which makes them a highly sought-after imaging technology in the medical industry and propels the market's expansion.

## Rising Preference for Optical Sources by End-Users

In 2022, the optical sources segment held an accountable share of the North America terahertz technology market and is likely to rise at a CAGR of 3% during the analysis years. This is because optical sources, which are still in the development stage, perform better and are more economical than RF sources. Optical sources are excellent for a variety of applications because of their high bandwidth, quick speed, and small sizes. However, as they continue to be created and used in the industry, RF sources are anticipated to expand steadily.

#### U.S. to Grow at a CAGR of 39% in the North America Terahertz Technology Market

Among other regions, the U.S. dominated the market and is likely to register a CAGR of 39.0%. This is because the U.S. is one of the most technologically advanced countries. In 2022, the US government spent about \$146 billion on R&D. Additionally, the US had the greatest private sector R&D spending of any other nation at \$404 billion. The growing number of cancer patients is also likely to raise demand for terahertz technology because it helps with cancer detection.

Also, the U.S. government has been investing heavily in the advancement of terahertz technology, which is propelling the market for terahertz technology in North America. For instance, the U.S. Department of Defense has been funding the creation of terahertz imaging equipment for use in defense and security applications.

In addition, there are other universities and research centers in the US that are working hard to advance terahertz technology. Thus, the US now possesses some of the world's most cutting-edge terahertz technology research and development facilities. As a result, the market in the US is likely to grow at a rapid rate.

Browse Detailed Summary of Research Report: <https://www.astuteanalytics.com/industry-report/north-america-terahertz-technology-market>

#### Top 5 Players to Contribute 65% of Revenue Share

Advantest Corporation, Acal Bfi UK Ltd, Toptica, Luna Innovations, and Hubner GmbH & Co. Kg, the top 5 players in the North American Terahertz technology market, collectively owned a 65% revenue share.

#### Some of the Key Strategies Adopted by Key Players Include

In March 2023, NASA chose eight small research satellites from seven states to launch into orbit and advance the organization's scientific, technological, or education aims.

In Dec 2022, at its inaugural meeting, the ETSI Industry Specification Group on Terahertz (ISG Thz) settled on the order of work for this potential 6G technology. The 31 member firms in the ETSI ISG THz are working to identify the goal scenarios and specific frequency ranges of interest for THz communications.

In August 2022, NASA and Longwave Photonics worked together via Flagship's "Small Business Innovation Research Program" to successfully design a heterodyne spectrometer. The device uses a powerful, reliable terahertz laser to focus on a number of specific frequencies in order to identify and pinpoint the location of water sources on the Moon.

In Aug 2022, Test equipment manufacturer Viavi Solutions started an academic initiative to support 6G research at institutions in the US and the UK, including the University of Surrey.

Some of the prominent competitors profiled in the North America Terahertz technology market are:

Advantest Corporation  
Batop GmbH  
Bakman Technologies  
HÜBNER GmbH & Co. KG  
Gentec Electro-optics Inc.  
Menlo Systems GmbH  
Luna Innovations  
Terasense Group Inc.  
Microtech Instrument Inc.  
Teravil  
TeraView Limited  
QMC Instruments Ltd.  
TOPTICA Photonics AG  
Acal BFi UK Ltd  
Das-Nano SL  
Insight Product  
Advanced Photonix Inc.  
Traycer  
Gentec Electro-Optics  
ACAL  
Thruvision  
Other Prominent Players

## Segmentation Outline

The North America Terahertz technology market segmentation focuses on Terahertz Type, Application, Source, and Country.

By Terahertz Type

Imaging

Active Terahertz Imaging Systems

Passive Terahertz Imaging Systems

Spectroscopy

Terahertz Time-Domain Spectroscopy  
Terahertz Frequency Domain Spectroscopy  
Terahertz (THz) Emitters Spectroscopy  
Communication Systems  
Antennas  
Emitters  
Modulators

By Application  
Contactless Screening  
Wireless Communication  
Loss Prevention  
Others

By Source  
RF Sources  
Si - CMOS  
SiGe-HBT  
InP-HBT  
InP DHBT  
InP-RTD  
InP HEMT  
Gunn  
IMPATT  
TUNNETT  
GaAs-RTD  
GaN-HEMT  
InSb-HEMT  
Others  
Optical Sources  
Photoconductive Antenna (PCA)  
THz Nonlinear Crystals  
Quantum-cascade Lasers (QCLS)  
Others

North America  
The U.S.  
Canada  
Mexico

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