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Forensic Technology Market Forecasts to 2032 – Global Analysis By Product (DNA Analysis, Fingerprint Analysis, Firearm Analysis, Biometric Devices, Digital Forensic and Other Products), Type, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Forensic Technology Market is accounted for $6.7 billion in 2025 and is expected to reach $14.7 billion by 2032 growing at a CAGR of 11.9% during the forecast period. Forensic technology refers to the application of scientific methods and advanced tools to investigate crimes and analyze evidence for use in legal proceedings. It encompasses a wide range of techniques, including DNA analysis, fingerprint identification, digital forensics, ballistic analysis, and facial recognition. These technologies help law enforcement agencies collect, preserve, and interpret evidence with greater accuracy and speed. By enhancing the ability to solve complex criminal cases, forensic technology plays a critical role in modern justice systems. It also supports crime prevention and the exoneration of the innocent, ensuring fairness and reliability in both criminal and civil investigations.

According to the United Nations Office on Drugs and Crime (UNODC), enterprises should use digital forensics and surveillance technologies to investigate and disrupt cybercrime.

Market Dynamics:

Driver:

Rising Crime Rates Globally

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The rising crime rates globally have a positive and driving impact on the forensic technology market by significantly increasing the demand for advanced investigative tools and solutions. Law enforcement agencies are turning to cutting-edge forensic technologies such as DNA profiling, digital forensics, and biometric analysis to solve complex and high-volume cases more efficiently. This surge in criminal activities compels governments and private entities to invest in modern forensic infrastructure, thereby accelerating market growth and innovation in forensic tools and services worldwide.

Restraint:

High Cost of Forensic Tools and Services

The expensive nature of forensic tools and services greatly obstructs the development of the forensic technology market. The high prices of these advanced tools restrict their accessibility for smaller law enforcement agencies and organizations, thus creating an adoption barrier. Consequently, entities with limited resources may find it difficult to adopt state-of-the-art forensic solutions, which could hinder the overall growth of the market and impede technological progress in forensic investigations.

Opportunity:

Technological Advancements

Technological advancements are absolutely transforming the forensic technology market by enhancing accuracy, speed, and efficiency in criminal investigations. Innovations such as AI, machine learning, and advanced DNA analysis are enabling quicker identification and reconstruction of evidence. Digital forensics and biometric tools improve case resolution rates and support law enforcement in solving complex crimes. These technologies not only streamline forensic processes but also strengthen the reliability of legal outcomes, driving significant growth and investment in the global forensic technology market.

Threat:

Privacy and Ethical Concerns

Privacy and ethical concerns significantly hinder the growth of the forensic technology market. As forensic technologies often involve sensitive personal data, there are

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growing concerns about data breaches, misuse, and unauthorized surveillance. These issues raise legal and ethical questions, leading to stricter regulations and public reluctance to adopt such technologies. Additionally, controversies surrounding privacy violations can damage trust in forensic solutions, limiting their widespread acceptance and implementation.

Covid-19 Impact

The COVID-19 pandemic significantly impacted the forensic technology market, leading to a slowdown in investigations and court proceedings due to lockdowns and social distancing measures. However, it accelerated the adoption of digital forensic tools and remote solutions, as law enforcement and legal sectors shifted to virtual platforms. Increased cybercrime during the pandemic also boosted demand for advanced forensic technologies, especially in digital forensics.

The digital forensics segment is expected to be the largest during the forecast period

The digital forensics segment is expected to account for the largest market share during the forecast period, because it enables law enforcement and legal entities to efficiently extract, analyze, and preserve data from electronic devices. Advancements in AI, cloud computing, and mobile forensics have enhanced the speed and accuracy of investigations. As digital footprints become increasingly crucial in solving crimes, the demand for digital forensic tools continues to expand, fueling overall market innovation and investment.

The healthcare segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the healthcare segment is predicted to witness the highest growth rate, due to advancements in forensic pathology, toxicology, and DNA analysis. Increasing demand for accurate diagnostics and the rise in medico-legal cases have prompted healthcare providers to adopt sophisticated forensic tools. These technologies aid in identifying causes of death, detecting drug overdoses, and solving medical disputes. As healthcare integrates with forensic innovations, it enhances precision in legal investigations, ultimately strengthening public safety and boosting the market's growth trajectory.

Region with largest share:

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During the forecast period, the Asia Pacific region is expected to hold the largest market share due to increasing need for advanced solutions in criminal investigations, cybersecurity, and fraud detection. This market positively impacts law enforcement, legal systems, and private sectors by enabling faster, more accurate evidence processing and analysis. Innovations in digital forensics, biometrics, and AI-powered tools are enhancing crime resolution efficiency and public safety, fostering greater trust in justice systems and improving overall security across the region.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to advancements in digital forensics, data analysis, and criminal investigations. These technologies enhance the efficiency and accuracy of solving complex cases, contributing to the safety and security of the region. With rising demand for data protection and evidence preservation, forensic technology supports law enforcement agencies, legal professionals, and security organizations. Its integration into various sectors fosters a positive, driving impact on public safety and criminal justice.

Key players in the market

Some of the key players profiled in the Forensic Technology Market include Thermo Fisher Scientific Inc., Promega Corporation, Agilent Technologies, QIAGEN N.V., Eurofins Scientific, LGC Limited, Bio-Rad Laboratories, Inc., Shimadzu Scientific Instruments, HORIBA, Ltd., Leica Microsystems, IDEMIA, Ultra Electronics Forensic Technology Inc., Neogen Corporation, Projectina, Cellebrite, Nuix, OpenText, Magnet Forensics and Exterro.

Key Developments:

In January 2025, Pioneer Group has announced a strategic collaboration with Thermo Fisher Scientific to support biotech startups across the UK and Ireland, particularly those focused on healthcare and sustainability innovations. This partnership aims to provide comprehensive support to early-stage companies, enhancing their ability to commercialize intellectual property and scale their operations.

In November 2024, Mainz Biomed and Thermo Fisher Scientific have entered into a collaboration to develop a next-generation colorectal cancer (CRC) screening product. This partnership aims to combine Mainz Biomed's mRNA-based assays with Thermo

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Fisher's advanced technologies to create a non-invasive, home-collection test capable of detecting both colorectal cancer and precancerous lesions, such as advanced adenomas.

Products Covered:

- DNA Analysis
- Fingerprint Analysis
- Firearm Analysis
- Biometric Devices
- Digital Forensics
- Other Products

Types Covered:

- Polymerase Chain Reaction (PCR)
- Capillary Electrophoresis
- Next Generation Sequencing (NGS)
- Rapid DNA Analysis
- Automated Liquid Handling Technology
- Microarrays
- Other Types

Applications Covered:

- Law Enforcement

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- Healthcare
- Banking, Financial Services, and Insurance (BFSI)
- Telecom and IT
- Government
- Other Applications

End Users Covered:

- Government Agencies
- Private Forensic Laboratories
- Independent Consultants
- Research Institutes
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany

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- UK
- Italy
- France
- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia

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UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

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Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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