

Photoacoustic Imaging Market Set to Surge to \$132.3 Million by 2031 at a 5.7% CAGR

The global photoacoustic imaging market is expected to reach \$132.3 million by 2031, reflecting a CAGR of 5.7%

WILMINGTON, DE, UNITED STATES, March 11, 2025 /EINPresswire.com/ -- As of 2021, the global [photoacoustic imaging market](#) was valued at approximately \$76 million. Projections indicate that this market is expected to reach \$132.3 million by 2031, reflecting a CAGR of 5.7% from 2022 to 2031. The global photoacoustic imaging market has been experiencing notable growth, propelled by technological advancements and a rising demand for non-invasive diagnostic techniques. This report delves into the market's statistics, growth factors, segmentation, and key players, providing a comprehensive overview of the industry's current landscape.



The image shows the cover of a research report titled "PHOTOACOUSTIC IMAGING MARKET". It features a photograph of a medical professional in a white lab coat operating a large medical imaging device. The report title is in green and black text. Below the title, it says "OPPORTUNITIES AND FORECAST, 2021 - 2031". A green box contains the text: "Photoacoustic imaging market is expected to reach **\$132.3 Million** in 2031" and "Growing at a **CAGR of 5.7%** (2022-2031)". At the bottom, it lists "Report Code: A13389, www.alliedmarketresearch.com".

Photoacoustic Imaging Market Research Report

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Photoacoustic Imaging Market Growth Factors

Several factors contribute to the growth of the photoacoustic imaging market:

- 1. Technological Advancements:** Continuous innovations have led to the development of sophisticated imaging systems. For instance, in May 2022, FUJIFILM VisualSonics Inc., a leader in ultra-high-frequency ultrasound and photoacoustic imaging systems, launched the Vevo F2. This system is the world's first to offer an ultra-high to low-frequency range (71MHz-1MHz) for preclinical use, enhancing imaging capabilities and broadening application areas.
- 2. Increasing Prevalence of Chronic Diseases:** The rising incidence of chronic conditions such as cancer and cardiovascular diseases has heightened the demand for accurate and non-invasive diagnostic tools. Photoacoustic imaging's ability to provide detailed vascular and tissue imaging makes it invaluable in early disease detection and monitoring.

3. Advantages Over Traditional Imaging Modalities: Photoacoustic imaging combines the benefits of optical and ultrasound imaging, offering high-resolution images without exposing patients to ionizing radiation. This safety profile enhances its appeal in both clinical and research settings.

Photoacoustic Imaging Market Segmentation

The photoacoustic imaging market is segmented based on product, type, end user, and region.

1. By Product

- **Imaging Systems:** This segment dominated the global market in 2021 and is expected to remain dominant throughout the forecast period. The increase in demand for advanced imaging devices and the rise in research activities contribute to this segment's growth.
- **Lasers:** Essential components that provide the necessary light source for generating photoacoustic signals.
- **Transducers:** Devices that detect the ultrasonic waves produced during the photoacoustic effect.
- **Others:** This category includes software and accessories that support the functionality of photoacoustic imaging systems.

2. By Type

- **Tomography:** This segment dominated the global market in 2021 and is anticipated to continue this trend during the forecast period. This is attributed to advanced features in photoacoustic imaging tomography (PAT) in terms of spatial resolution, frame rates, and detection sensitivity.
- **Microscopy:** Offers anatomical, functional, and molecular information. Its scalability allows high-resolution imaging at specified depths, enhancing its utility in biomedical research.

3. By End User

- **Diagnostic Imaging Centers:** This segment held the largest market share in 2021. This was attributed to well-equipped infrastructure, rise in patient admission for diagnosis, and adoption of technologically advanced biomedical photoacoustic imaging devices.
- **Hospitals:** Expected to register the highest CAGR during the forecast period. This is attributed to increase in patient's preference toward hospitals as it safely provides treatment under the observation of skilled physicians.
- **Others:** Includes research institutes and academic centers that utilize photoacoustic imaging for various studies and experiments.

4. By Region

- **North America:** Accounted for a major share of the photoacoustic imaging market in 2021 and is expected to maintain its dominance during the forecast period.
- **Asia-Pacific:** Expected to grow at the highest rate during the forecast period. The market growth in this region is attributable to presence of medical devices manufacturing companies in the region as well as growth in the purchasing power of populated countries, such as China and India.

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Key Players in the Photoacoustic Imaging Market

Several companies are leading advancements in the photoacoustic imaging market:

- FUJIFILM VisualSonics Inc.
- TomoWave
- Seno Medical Instruments
- iThera Medical GmbH
- Endra Life Sciences Inc.

The photoacoustic imaging market is poised for substantial growth, driven by technological innovations and an increasing need for non-invasive diagnostic methods. With continuous advancements and expanding applications, photoacoustic imaging is set to play a pivotal role in the future of medical diagnostics and research.

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David Correa

Allied Market Research

+15038946022 ext.

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