

Photon-counting Computed Tomography Market, Global Outlook and Forecast 2022-2028

<https://marketpublishers.com/r/PBF71AA3D235EN.html>

Date: February 2022

Pages: 69

Price: US\$ 3,250.00 (Single User License)

ID: PBF71AA3D235EN

Abstracts

Photon-counting computed tomography (CT) is a computed tomography technique currently under research and development, both within academia and by major vendors of CT systems. Photon-counting CT has the potential both to offer significant improvements to existing CT imaging techniques and to make possible completely novel applications. A photon-counting CT system employs a photon-counting detector (PCD) which registers the interactions of individual photons. By keeping track of the deposited energy in each interaction, the detector pixels of a PCD each record an approximate energy spectrum, making it a spectral or energy-resolved CT technique. In contrast, typical CT scanners use energy-integrating detectors (EIDs), where the total energy (generally from a large number of photons as well as electronic noise) deposited in a pixel during a fixed period of time is registered. Typical CT detectors thus register only photon intensity, comparable to black-and-white photography, whereas photon-counting detectors register also spectral information, similar to colour photography.

This report contains market size and forecasts of Photon-counting Computed Tomography in Global, including the following market information:

Global Photon-counting Computed Tomography Market Size 2023-2028, (\$ millions)

The global Photon-counting Computed Tomography market is projected to reach US\$ 788.8 million by 2028.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Photon-counting Computed Tomography companies, and industry experts on this industry, involving the revenue, demand, product type, recent developments and plans, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Photon-counting Computed Tomography Market, by Type, 2023-2028 (\$ millions)

Global Photon-counting Computed Tomography Market Segment Percentages, by Type

CZT

CdTe

Other

Global Photon-counting Computed Tomography Market, by Application, 2023-2028 (\$ millions)

Global Photon-counting Computed Tomography Market Segment Percentages, by Application

Medical Use

Industrial Use

Global Photon-counting Computed Tomography Market, By Region and Country, 2023-2028 (\$ Millions)

Global Photon-counting Computed Tomography Market Segment Percentages, By Region and Country

United States

Europe

Asia

China

Rest of World

Competitor Analysis

The report also provides analysis of leading market participants including:

Further, the report presents profiles of competitors in the market, key players include:

GE Healthcare

Siemens Healthineers

Philips

Xpect Vision

Hitachi Healthcare

MARS Bioimaging

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