

Global Non-Invasive FFR System Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Non-Invasive FFR System market size was valued at US\$ 1804 million in 2025 and is forecast to a readjusted size of US\$ 4162 million by 2032 with a CAGR of 12.7% during review period.

Non-Invasive FFR (Fractional Flow Reserve) System is a software-based medical technology that computes fractional flow reserve values from routine coronary CT angiography scans or invasive coronary angiograms without the need for a pressure wire or hyperemic agents. Using computational fluid dynamics, machine learning algorithms, or 3D reconstruction techniques, the system simulates blood flow and pressure gradients across coronary artery stenoses to generate a quantitative FFR value indicating the hemodynamic significance of coronary blockages. This enables physicians to determine whether a coronary lesion is functionally significant without performing invasive pressure wire measurements.

The upstream segment includes AI algorithm developers, computational fluid dynamics engine providers, cloud computing infrastructure, and medical imaging software toolkits. The midstream segment encompasses software development, regulatory approval (FDA, CE-MDR, NMPA), cloud-based platform deployment, and clinical validation performed by specialized AI medical imaging companies. Non-invasive FFR systems are categorized by imaging source into CT-derived FFR and angiography-derived FFR; by computational method into CFD-based, reduced-order algorithm, and machine learning/AI-based; by deployment into cloud-based and on-premise workstation. The downstream segment serves interventional cardiologists, radiologists, and cardiac imaging centers through per-analysis fees, software licensing, or subscription

models. The industry maintains gross margins between 75% and 85%.

The global non-invasive FFR market is experiencing rapid growth, driven by increasing adoption of physiology-guided revascularization, favorable clinical evidence supporting FFR-guided PCI, and the need for cost-effective, risk-free diagnostic alternatives to invasive pressure wire measurements. The FAVOR III China trial demonstrated that QFR-guided revascularization resulted in a 35% risk reduction of major adverse cardiac events (MACE) compared with standard angiography guidance, with fewer stents used and reduced contrast and radiation exposure .

A notable trend reshaping the market is the shift toward AI-powered computational methods. Traditional 3D-CFD approaches require significant computational resources and processing time (1-4 hours). New machine learning-based solutions can compute results in minutes directly on local workstations or via cloud platforms, enabling same-day results and expanding clinical utility in outpatient settings. OCT-based FFR (Optical Flow Ratio, OFR) has demonstrated excellent diagnostic accuracy (AUC 97%) for predicting invasive FFR ischemic values, superior to angiography-based QFR .

Another significant development is the expansion of regulatory approvals and clinical indications. Multiple non-invasive FFR technologies have received global regulatory clearances: HeartFlow FFRCT (FDA 2014), KeYa CT-FFR (NMPA 2020, CE 2018, FDA 2022), RuiXin-FFR (MDR 2023, NMPA 2021), uCT-FFR (NMPA 2024), and Shukun-FFR (NMPA 2023) . The integration of plaque analysis and 3D vessel reconstruction is expanding clinical utility beyond ischemia detection to support primary and secondary prevention strategies.

This report is a detailed and comprehensive analysis for global Non-Invasive FFR System market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Non-Invasive FFR System market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Non-Invasive FFR System market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Non-Invasive FFR System market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Non-Invasive FFR System market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Non-Invasive FFR System

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Non-Invasive FFR System market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Abbott Laboratories, Boston Scientific Corporation, Bracco S.p.A., Opsens Inc., Philips N.V., HeartFlow, Inc., CathWorks, Medis Medical Imaging System B.V., Pie Medical Imaging B.V., Canon Medical Systems Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Non-Invasive FFR System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

FFRct

FFRangio

FFRivus/oct

Market segment by Turnaround Time

Real-Time (

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