

Global Non-Invasive FFR System Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Non-Invasive FFR System market size is predicted to grow from US\$ 1715 million in 2025 to US\$ 4127 million in 2032; it is expected to grow at a CAGR of 13.5% from 2026 to 2032.

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.

LPI (LP Information)' newest research report, the 'Non-Invasive FFR System Industry Forecast' looks at past sales and reviews total world Non-Invasive FFR System sales in 2025, providing a comprehensive analysis by region and market sector of projected Non-Invasive FFR System sales for 2026 through 2032. With Non-Invasive FFR System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Non-Invasive FFR System industry.

This Insight Report provides a comprehensive analysis of the global Non-Invasive FFR System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Non-Invasive FFR System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Non-Invasive FFR System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Non-Invasive FFR System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Non-Invasive FFR System.

This report presents a comprehensive overview, market shares, and growth opportunities of Non-Invasive FFR System market by product type, application, key players and key regions and countries.

Segmentation by Type:

FFRct

FFRangio

FFRivus/oct

Segmentation by Turnaround Time:

Real-Time (

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