

U.S. Fluoroscopy Procedures Market Size, Share & Trends Analysis Report By Type (C-Arms {including Mobile}, Fixed Table-based, Others), By CPT (50010-50437, 50500-50593, 50600-50980), By End Use (Hospitals), And Segment Forecasts, 2026 - 2033

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Abstracts

The U.S. fluoroscopy procedures market size was estimated at USD 132.1 million in 2025 and is expected to reach a value of USD 182.7 million in 2033, growing at a CAGR of 4.1% from 2026 to 2033. The market growth is supported by the country's advanced healthcare infrastructure and high utilization of medical imaging for both diagnostic and interventional procedures.

Fluoroscopy enables real-time X-ray imaging, allowing physicians to guide minimally invasive procedures across specialties such as cardiology, orthopedics, gastroenterology, urology, and interventional radiology. In the United States, hospitals, catheterization laboratories, and ambulatory surgical centers widely rely on fluoroscopic guidance to perform complex procedures including angiography, catheter placement, spinal interventions, and gastrointestinal examinations. The growing preference for image-guided minimally invasive treatments has strengthened the role of fluoroscopy within the broader medical imaging ecosystem.

Technological advancements in imaging systems are playing a significant role in improving the efficiency, safety, and clinical outcomes of fluoroscopy-guided procedures. Hospitals and interventional imaging centers are increasingly replacing conventional fluoroscopy systems with advanced digital platforms that offer enhanced visualization, reduced radiation exposure, and improved workflow during minimally invasive procedures. According to the study published by National Library of Medicine in January 2026 evaluating fluoroscopy systems in clinical practice found that

approximately 62% of surveyed fluoroscopy units now use flat-panel detectors (FPDs), which provide improved image quality and lower radiation dose compared with older image-intensifier systems. The study also noted that pulsed fluoroscopy capabilities are now nearly universal in modern systems, reflecting technological upgrades across hospitals and interventional imaging centers. These advancements support more precise image-guided interventions while improving radiation safety for both patients and healthcare professionals.

The rising prevalence of kidney and urinary tract diseases plays a critical role in the growth of U.S. fluoroscopy procedures industry. Fluoroscopy provides real-time visualization during minimally invasive procedures, allowing physicians to guide catheters, stents, and other instruments with precision. As chronic kidney disease and urinary disorders continue to affect a significant portion of the U.S. population, healthcare facilities increasingly depend on fluoroscopy systems to support safe and efficient interventions. According to the Centers for Disease Control and Prevention (CDC) report “Chronic Kidney Disease in the United States, 2023,” published in May 2024, more than 1 in 7 U.S. adults (about 35.5 million people) are estimated to have chronic kidney disease, highlighting a significant and growing healthcare burden. The CDC also notes that many individuals remain undiagnosed, increasing the need for early detection and image-guided clinical interventions. This rising disease prevalence supports growing demand for advanced diagnostic and treatment technologies, including fluoroscopy systems used in minimally invasive kidney and urinary tract procedures.

U.S. Fluoroscopy Procedures Market Report Segmentation

This report forecasts revenue growth at country level and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. fluoroscopy procedures market report based on product, application, and end use:

Type Outlook (Revenue, USD Million, 2021 - 2033)

C-Arms {including Mobile}

Fixed Table-based

Others

CPT Outlook (Revenue, USD Million, 2021 - 2033)

54000-55899

50010-50437

50500-50593

50600-50980

51020-51610

52300-52356

53000-53899

74420, 74425, 74455

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Hospitals

Not-for-Profit

For Profit

Ambulatory Surgical Centers

Specialty Clinics

Others

This report can be delivered to the clients within 3 Business Days

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