

Carestream's innovation process includes sustainability elements.

Product:

CARESTREAM OnSight 3D Extremity System

Description:

The CARESTREAM OnSight 3D Extremity System is a cone-beam computed tomography (CBCT) scanner. It's designed for point-of-care extremity imaging in orthopaedic clinics, imaging centers, specialty offices, sports medicine facilities, hospitals and emergency departments. It allows high-resolution 2D and 3D imaging exams of lower (both weight-bearing and non-weight bearing) and upper extremities.

Societal value:

The OnSight System has advanced capabilities that helps improve the physician's view of patient anatomy and pathology. It can allow image capture, reading, diagnosis and treatment planning in a single visit rather than multiple appointments – this offers the patient greater convenience, time-savings, reduced transportation costs, and the potential for earlier commencement of treatment. In addition, the OnSight features an easy-open system door that allows the patient to enter the bore quickly and comfortably to facilitate weight-bearing exams – which allow the physician to evaluate the joint under a natural load condition. This supports a more informed diagnosis and development of a tailored, effective treatment plan – as well as more accurate monitoring of fracture healing over time.

The OnSight System offers the technologist intuitive ease-of-use, featuring a monitor displaying patient information and imaging status. Because the system images a single extremity at a time – rather than the patient's entire body – dose exposure to patients is reduced by as much as 50% when compared to conventional CT systems. OnSight may be placed in relatively small rooms with minimum shielding (subject to local medical physicist approval) reducing the cost and complexity of installation.

The combination of optimized patient workflow, weight bearing imaging and state-of-the-art metal artifact reduction makes the OnSight ideal for the highest-quality imaging across the full range of "point-of-care" environments.

Environmental sensitivity:

The CARESTREAM OnSight 3D Extremity System was designed for high reliability, which minimizes part replacements and extends the product's functional life. The entire scanner has been designed for easy servicing or parts replacement. Both of these aspects lend themselves to less consumption of natural resources and may reduce pollution from transportation and disposal processes. Finally, the digital acquisition and an online connection to a PACS or digital archive eliminates the need for process chemistry and film storage.

