OEC 3D

Precise. Efficient.

OEC 3D

3D imaging every day

3D imaging is utilized in a variety of procedures from spinal fusion to fracture reduction, however systems are often difficult to operate and disrupt the surgical workflow.

Expanding intraoprative imaging, the OEC 3D is readily available and easy to use. The OEC 3D C-arm provides precise volumetric images for spine and orthopedic procedures, as well as the benefits and familiarity of 2D imaging to deliver greater efficiency and versatility to surgical suites.

Finally, a 3D C-arm that every surgical suite deserves.

Intraoperative efficiency

Seamless Versatility

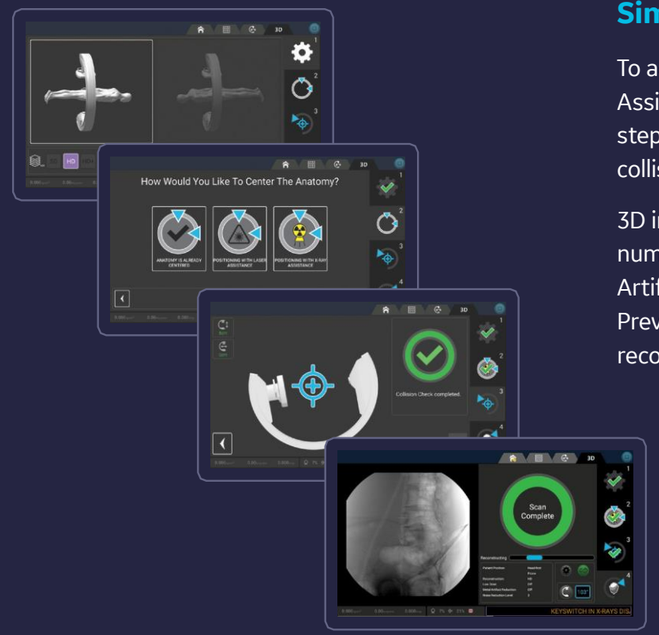
The OEC 3D is a true 3D/2D C-arm that performs both 3D and 2D imaging easily, reducing the need for an additional 2D C-arm during a procedure. Transitioning from 2D to 3D imaging is seamless, making the OEC 3D ideal for orthopedic trauma or spinal fusion where both imaging modes are needed intraoperatively.

Effortless Mobility

Built with a unique carbon fiber C-arm, the OEC 3D is the lightest weight 3D C-arm at less than 730 lbs (331 kg), making C-arm positioning around an operating suite or moving to another room easy.

Readily Available

In less than a minute, the OEC 3D powers up and is available for 2D or 3D imaging. With a 30 second acquisition and 30 second reconstruction for a typical scan, 3D images are ready swiftly for intraoperative review.



Simple Setup

To acquire a 3D scan, the OEC 3D Setup Assistant guides users through four simple steps: imaging selection, anatomy centering, collision check, and 3D acquisition.

3D imaging setup is flexible. Select the number of projections, Low Dose, Metal Artifact Reduction and Noise Reduction. Previously acquired scans can be reconstructed with adjusted selections.

Images your way

Amazing Images

The image quality OEC C-arms are renowned for is now available in 3D. The OEC 3D features a large 19 cm x 19 cm x 19 cm volume with a high resolution of 512³ voxels captured with a 200° isocentric sweep. 3D volume reconstructed images deliver a precise view in any cross-sectional plane as well as Volume Rendering and Maximum Intensity Projection images for enhanced clinical confidence and critical decisions in the operating room.

Incredible Views

The OEC 3D leverages GE Healthcare's proven AW image fabric technology to provide a premium 3D imaging experience. Placement of screws and other devices can be analyzed quickly with the Volume Viewer suite of 3D imaging tools including Multi Oblique Mode for assessing hardware alignment, scrolling through all 512 slices, slice thickness adjustment, window leveling, rotate, zoom, and more.

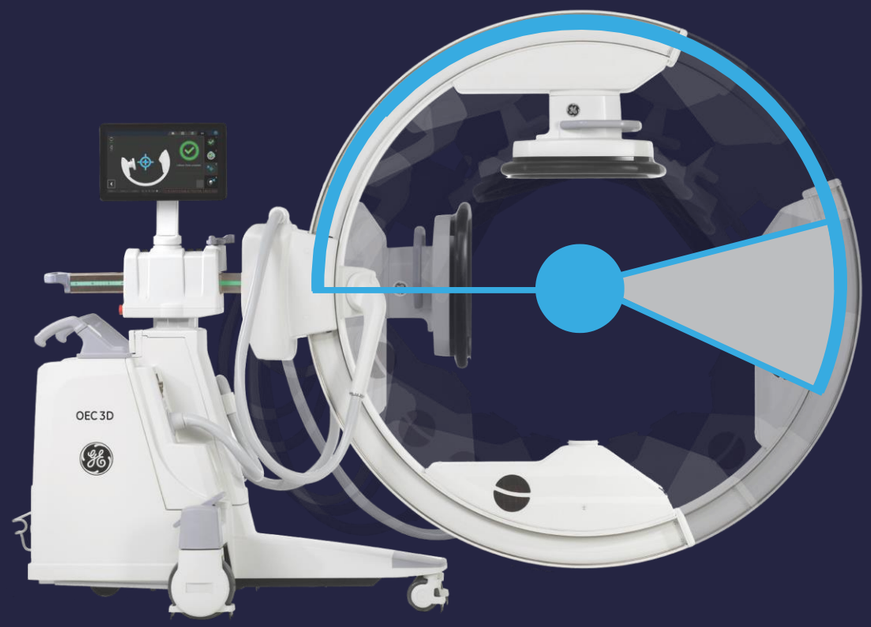
Open Navigation

OEC 3D has an open platform to integrate seamlessly with navigation and robotics systems and a physical mount for tracking devices. The OEC Open is a dedicated port that automatically exports a high-fidelity 3D data set to any navigation or robotics system that accepts DICOM images to further aid in image-guided surgeries.

Greater volume

Comprehensive Sweep

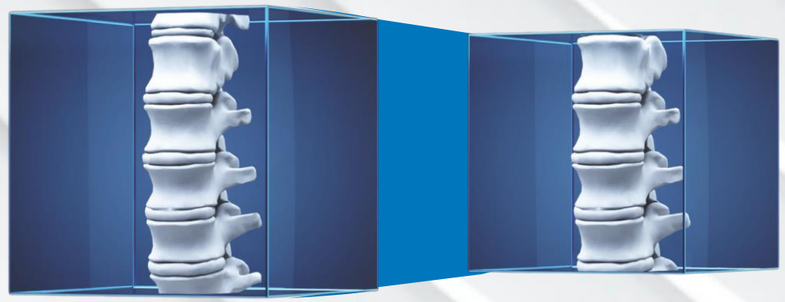
Capturing as much data as possible is critical in creating highly detailed images. The OEC 3D delivers a true 200° isocentric sweep for comprehensive and detailed 3D volumetric images. The OEC 3D has 35° greater orbital rotation than other 3D C-arms* in a single smooth movement.



*Compared to other 3D C-arm published specifications.

Expansive Volumes

With a 19 cm x 19 cm x 19 cm volume, OEC 3D captures a 67% greater volume than other 3D C-arms*. This expansive volume includes more anatomy in a single scan. See more levels during a spinal fusion, or more of the pelvis or femur during an orthopedic procedure.

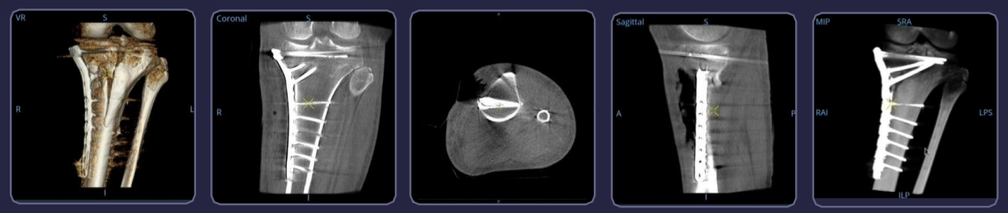


Represents OEC 3D
19 cm x 19 cm x 19 cm volume

Represents standard
16 cm x 16 cm x 16 cm volume

Precise An

What matters
3D volumes pr
to plan, analyz



Projection

See for yourself

Position Precisely

Aligning a detector over a patient can be challenging and may require several X-ray shots to center the anatomy. Live View on the OEC 3D gives a real time look from the detector and eliminates the need for scout images.

With an integrated stereo vision depth camera, Live View dynamically adjusts a preview outline as the detector moves closer to or farther away from the patient. With Live View presented on both the OEC Touch and workstation displays, communication among the surgical team is enhanced.

Convenient Control

The OEC 3D can be controlled in four convenient ways: Workstation, OEC Touch, OEC Touch Tableside or RUI, giving choice and flexibility to controlling and viewing images.

The OEC Touch Tableside brings all of the functionality available on the C-arm to a rollstand, enabling users to control imaging from within the sterile field or step away in the surgical suite.

Dose Matters

Managing X-ray exposure to patients and clinicians is vitally important, while ensuring optimal image quality is achieved. The OEC 3D has multiple features to minimize dose:

- **Reduce** dose with Low Dose Mode
- **Align** detector over anatomy with Live View camera
- **Select** number of 3D projections based on anatomy
- **Position** with green laser aimers
- **Optimize** image quality at low dose with CMOS detector
- **Minimize** clinician exposure with remote X-ray controls

Clinical confidence

Procedural Flexibility

The clinical flexibility of the OEC 3D makes the system ideal for a wide range of clinical applications. From procedures such as spinal fusion or joint replacement to angiogram and stent placement, the OEC 3D will be the system reached for in every procedure.

Extensive Connectivity

The OEC 3D features networking and connectivity access to export images for display or storage. For viewing convenience OEC 3D images can be displayed on additional in room monitors via DisplayPorts. For patient data management, images and dose reports can be exported to external storage devices via USB port or transferred via DICOM.

Substantial Security

Protecting patient health information is critically important, and concerns about cyber security continue to increase. To address these concerns the OEC 3D provides data encryption at rest, runs on a Linux operating system which is less prone to malware or virus attacks, and enables users to set password requirements and manage system user access.

OEC 3D

Precise. Efficient.

LARGE
19 cm x 19 cm x 19 cm volume

RESOLUTION
with 512^3 voxels

PREFERENCES
from projections to metal artifact reduction

TRUE
isocentric 200° sweep

CONFIRM
advanced analysis tools

QUICK
3 minutes prescan to reconstruction

OPEN
interface to navigation and robotics

CONVENIENCE
C-arm control including OEC Touch Tableside and RUI

VERSATILE
3D and 2D imaging

INNOVATIVE
Live View camera for detector positioning

INTUITIVE
setup for 3D imaging

UTILIZE
from general surgery to interventional cardiology

RESPONSIVE
enhanced steering and lightweight 728 lbs (330 kg)

SLEEK
footprint for tight spaces

READY
fast bootup, flexible SmartConnect

SECURE
data encryption and Linux operating system

Go to gehealthcare.com/oec3d to learn more

Availability of select models, configurations, and options varies by country.
Please contact your local sales representative.

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