

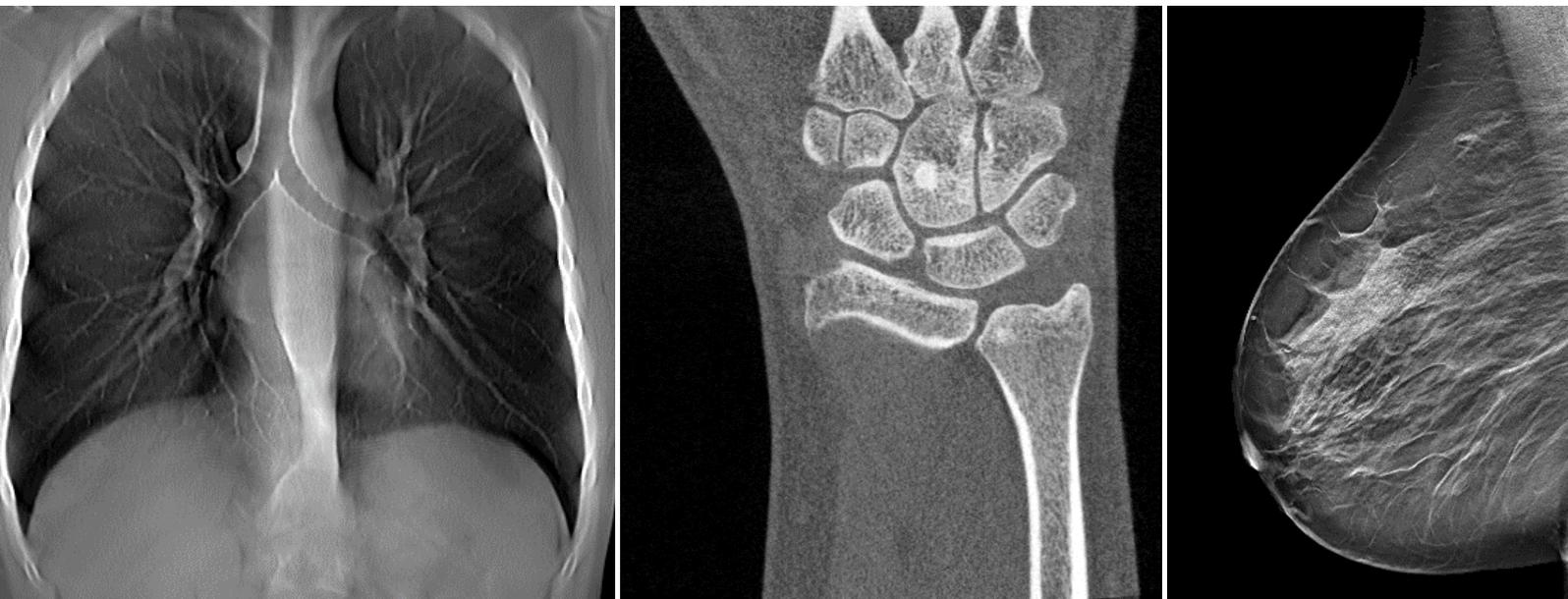


IBEX RE

Reconstruction Engine

Reconstruction engine for Tomosynthesis and Cone Beam Computed Tomography

IBEX RE is an advanced reconstruction engine for all 3D imaging applications. Providing state of the art processing features such as scatter correction and metal artefact and noise reduction, IBEX RE is a world leading solution that can be easily integrated into your 3D system.



Left: DR Tomosynthesis; Centre: Cone Beam CT; Right: Breast Tomosynthesis

Iterative algorithms: fewer artefacts, lower noise, reduced dose

Compatible with any imaging geometry

Advanced artefact reduction methods



Iterative Algorithms and Advanced Artefact Reduction

Reduced artefacts, lower noise and reduced dose for DRT, DBT and CBCT.

Flexible and novel geometries

- Compatible with any source/detector trajectory.

- Linear and multi-array emitters, moving sources and detectors supported.

Scatter Correction

- Estimates and corrects for scatter by simulating X-ray physics and transport through the object.

Metal Artefact Reduction (MAR)

- Iteratively reduces streaking and shading artefacts caused by high density materials.

Noise reduction and resolution enhancement.

Performance and operation

Advanced reconstruction engine with physics-based corrections. Typical runtime for a CBCT scan with a 512^3 volume is 25 seconds. Typical runtime for DRT reconstruction is 10 seconds.

Compliance

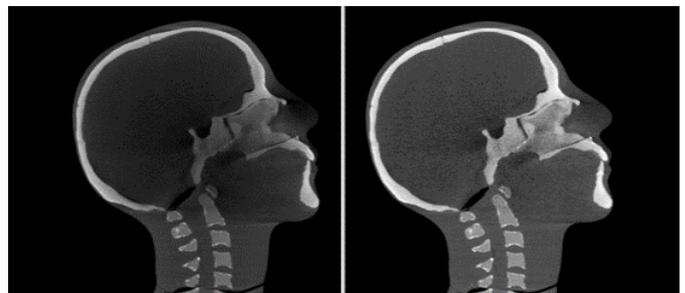
IBEX RE is based on Trueview technology and is fully documented to support certification activities of integrators in line with ISO 13485.

Integration

The software is provided as an SDK with full instructions and support for integration into the imaging pipeline of your system.



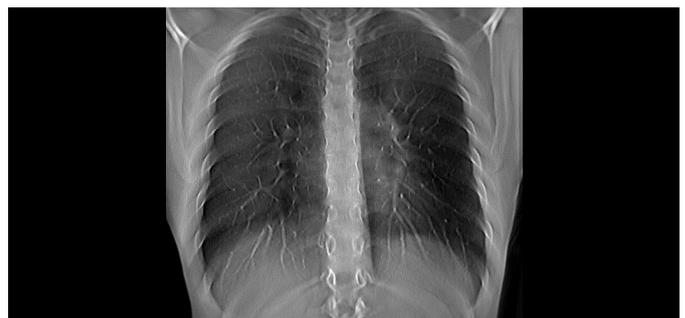
CBCT Reconstruction



Left: Conventional CT Slice; Right: With IBEX RE Scatter Correction



Left: Conventional CT Slice; Right: With IBEX RE MAR



Tomosynthesis Reconstruction

About IBEX

IBEX Innovations has a mission to support healthy ageing by increasing access to osteoporosis diagnosis and improving outputs in digital radiography and computed tomography. IBEX X-ray imaging software products are based on the unique IBEX Trueview® technology, which uses a combination of physics modelling and AI to

maximise the value of every X-ray.

IBEX is accredited to ISO 13485:2016 and IBEX products and technology are protected by granted and pending patents worldwide. It is a private company, with a world class team of scientists, engineers, statisticians, and business professionals based in North East England.

