

IBEX Trueview[®]

Enhanced Mobile Imaging in the Fast-Paced ITU Setting

Results from a ground-breaking study published in Acta Radiologica revealed that clinicians were 3.8 times more likely to agree that safe placement of lines and tubes could be confirmed using IBEX Trueview[®] software when compared to the standard diagnostic image

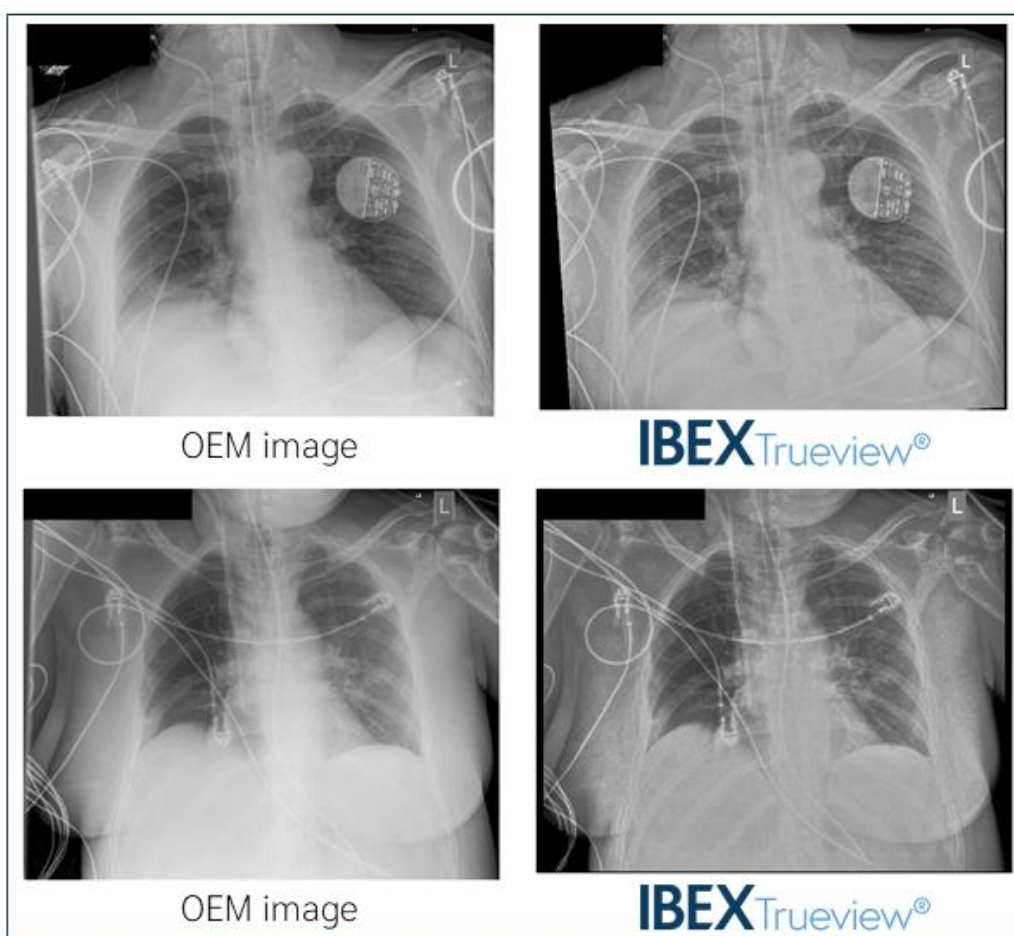


Figure 1 - Examples of postprocessed enhanced OEM and Trueview images

The Problem with Mobile CXR

Critically ill patients admitted to intensive care require continuous monitoring of their vital functions, mechanical and pharmacological support.

Chest radiographs play a fundamental part in monitoring the condition of patients receiving invasive mechanical ventilation, position of endotracheal tubes, central venous catheters and monitoring for conditions (physical and infection).

Mobile chest X-rays taken in the fast-paced ITU setting typically suffer from degraded image quality as a result of sub-optimal patient positioning, excessive scatter, and viewing with non-diagnostic viewing monitors.

Achieving rapid and accurate confirmation of safe tubes and lines placement is paramount in order to avoid potentially life-threatening complications, while assessment of clinical abnormalities relies on consistently high diagnostic quality.

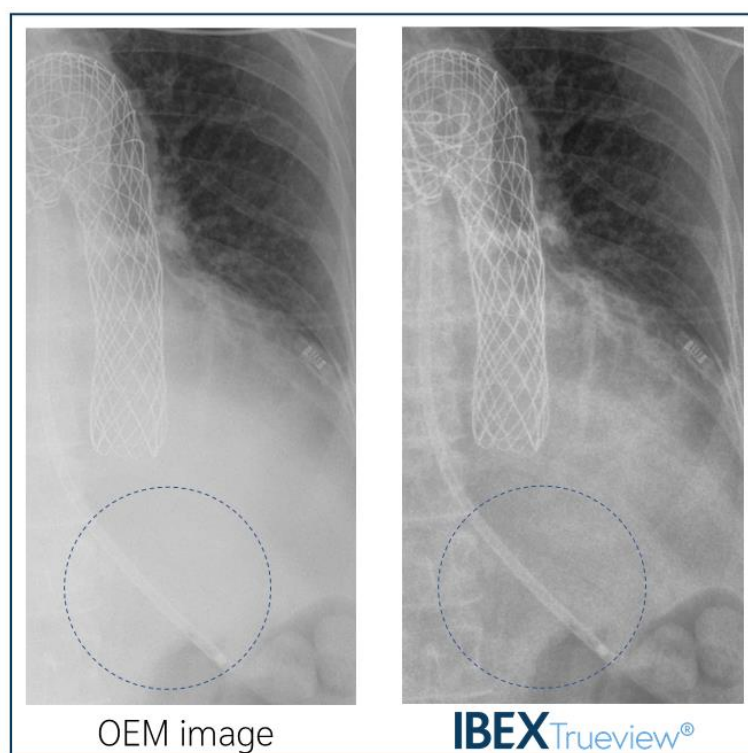


Figure 2 - Visualisation of nasogastric tube is improved by Trueview (right) compared with OEM (Left)

The Solution - IBEX Trueview® Gridless Scatter Correction

IBEX Trueview® software scatter correction delivers enhanced diagnostic contrast for mobile imaging in the ITU setting without the need for a physical grid.

The unique physics and AI approach used by Trueview accurately corrects for the unique patient scatter profile and provides additional compositional information to guide image post-processing. The result: a grid-like diagnostic image with enhanced tube and line visibility within a standard contrast window.

By providing grid-like contrast performance, Trueview enhances the value of mobile X-ray imaging by enabling a single image to be used for both diagnosis and for confirmation of safe placement of lines and tubes.

This can be used to improve diagnostic quality and reduce occurrences of tubes and lines misclassifications, providing the potential for improved safety and workflow efficiency.

Clinical Evidence

Trueview was recently put to the test in an observer scoring study comparing images enhanced using the software with standard original equipment manufacturer (OEM) images.

Images were reviewed by two radiology and four ITU doctors to compare visualisation of tubes and lines. The results, published in Acta Radiologica, showed that clinicians were 3.8 times more likely to agree that safe placement of lines and tubes could be confirmed with Trueview images when compared with the OEM images.

This highlights the major benefits that Trueview can bring to mobile chest X-ray imaging in an ITU setting. To read the full published paper, click the button below...

Enhanced visualization of mobile chest
X-ray images in the intensive care setting
using software scatter correction

The Benefits

Trueview delivers a multitude of image quality benefits for clinicians, equipment manufacturers, and patients:

- Enhanced visualisation of nasogastric endotracheal intubation for placement confirmation
- Diagnostic quality of thoracic anatomical tissues
- Suitable for viewing with both standard and diagnostic monitors

This breakthrough technology provides a major opportunity for OEMs to add significant value to their X-ray systems and for clinicians to improve safety and workflow efficiency.

If you'd like to learn more about how Trueview can generate higher quality images and new diagnostic outputs, head over to our website – ibexinnovations.co.uk - or contact us using the button below...

Contact us

