ContextVision

Altumira™ series

AI-powered image enhancement for static and dynamic X-ray

DIGITAL RADIOGRAPHY

AI-powered image enhancement

The ContextVision product portfolio provides state-of-the-art software solutions for optimized image quality, dose and workflow.

Our image enhancement solution for digital radiography enables excellent image quality and robustness in daily use. Its high flexibility allows system manufacturers to easily meet a wide variety of image quality preferences. The product can be optimized for all anatomies and projections.

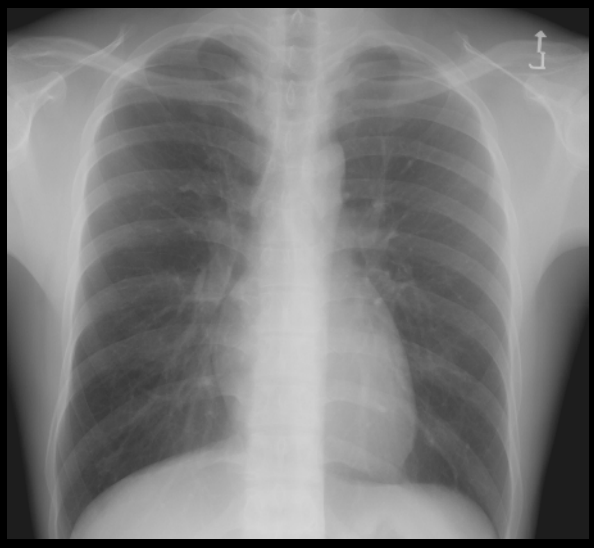
Altumira™ series

Altumira™

Superior image quality for digital radiography (DR)

Our AI-powered image enhancement solution for radiography is a synthesis of ContextVision's **world-leading image enhancement** technology and the latest findings within deep learning.

The Altumira platform is designed for all DR systems for static applications.



UNPROCESSED

PROCESSED

FEATURES & BENEFITS

- Sophisticated adaptive algorithms analyze every pixel to optimize the contextual enhancement.
- Intelligent noise suppression with simultaneous edge and contrast enhancement enables great visibility in soft and dense tissue.
- Advanced grayscale adaption based on deep learning technology for optimized global and local contrast.

Robustness between patients and varying exposure conditions

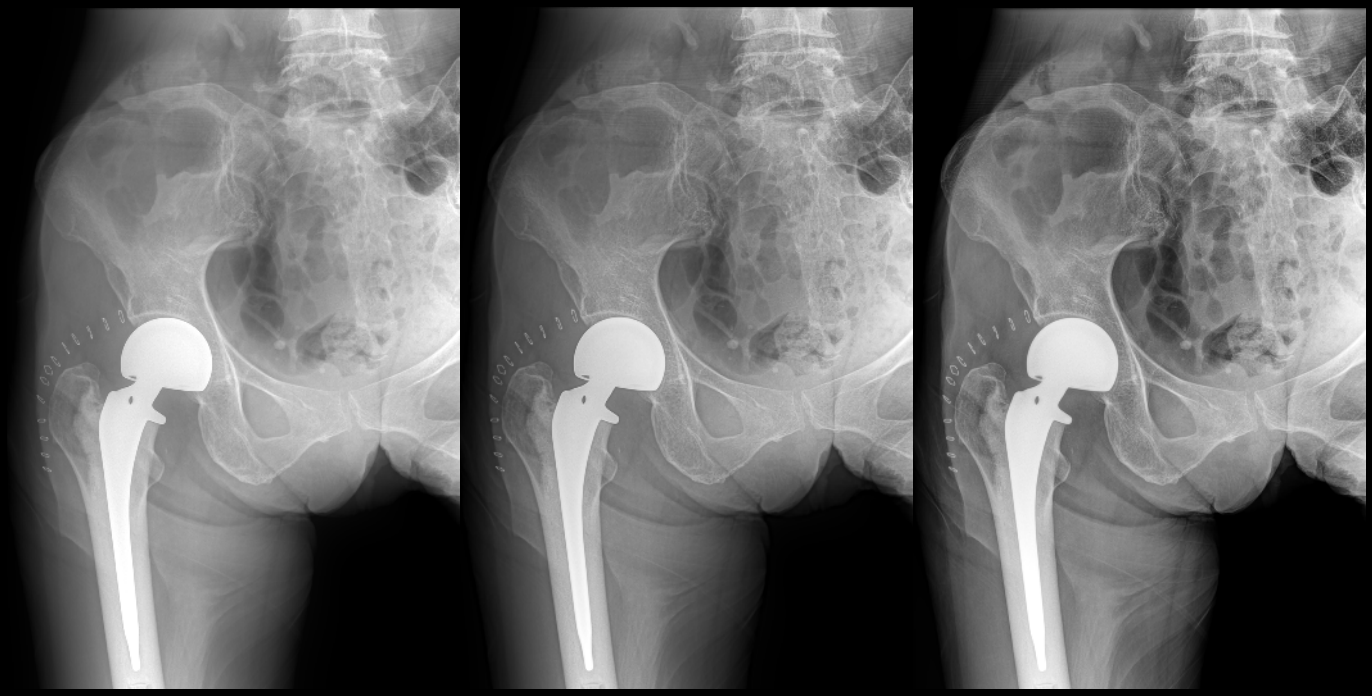
PROCESSED WITH ALTUMIRA

STANDARD PROCESSING

Stable and consistent image quality for all patients and clinical applications, enabled by deep learning technology.

- Addresses all types of variations in exposure conditions e.g. patient size, dose and intensity levels.
- Excellent robustness supports an efficient workflow and a high patient throughput.

Customizable image appearances for varying user preferences

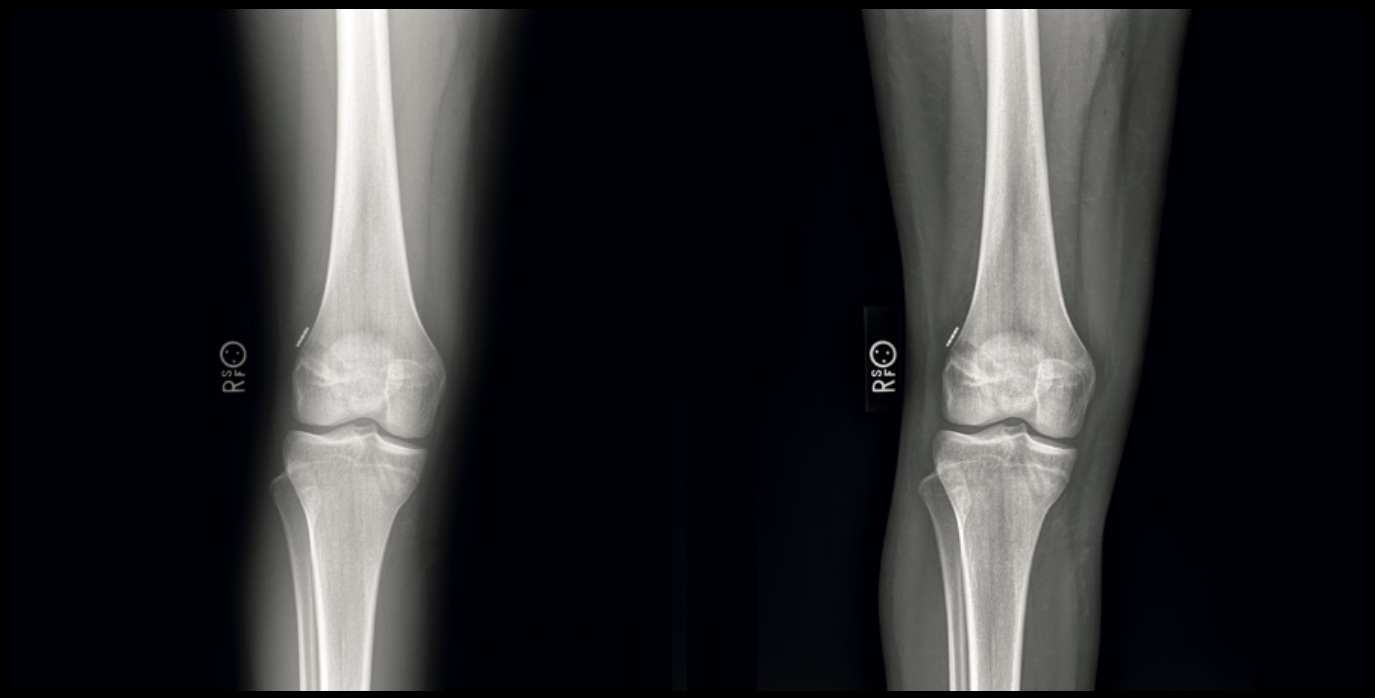


THREE DIFFERENT EXAMPLES OF IMAGE APPEARANCES, CREATED FROM THE SAME RAW IMAGE

The superior dynamics of Altumira allow DR manufacturers to easily meet the wide variety of clinicians' image appearance preferences.

Altumira provides solutions with excellent visibility of tissue adjacent to implants.

Altumira enables excellent white bone visibility



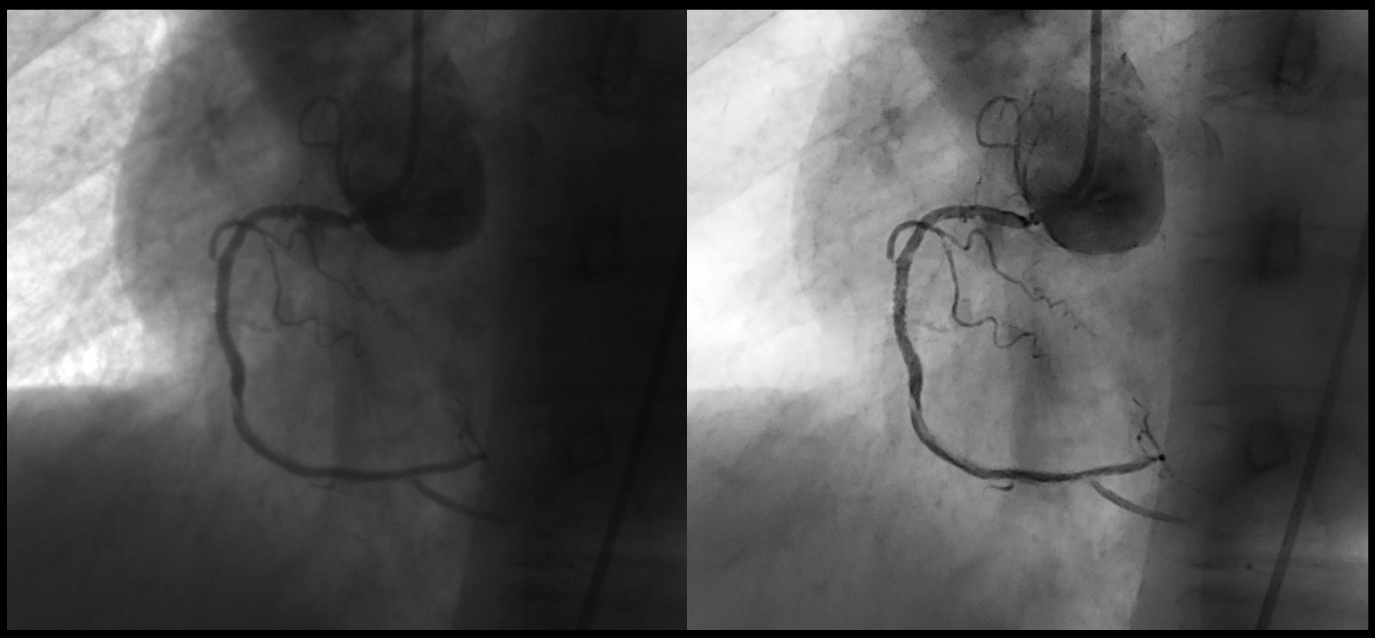
TWO EXAMPLES PROCESSED WITH ALTUMIRA™ FOR A WHITE BONE (LEFT) AND A RADIOGRAPHIC APPEARANCE (RIGHT)

Altumira's customization possibilities enable excellent white bone visibility and address the specific requirements of both pre- and post-operative orthopedic imaging.

Altumira™ series

Altumira™ Plus

AI-powered image enhancement for dynamic imaging with unparalleled image quality.



UNPROCESSED

PROCESSED WITH ALTUMIRA™ PLUS

FEATURES & BENEFITS

- Efficient contrast and edge enhancement, combined with intelligent noise suppression, provide clear visibility of fine details such as stents, catheter tips and fine vessels.
- Advanced temporal filter with motion compensation reduces noise without temporal blurring or motion artifacts.
- Allows for lower dose with maintained high image quality.
- Stable and robust image quality throughout all types of variations in dynamic imaging.

Harmonized and stable intensity levels in a dynamic test with different exposures and fields of view

UNPROCESSED

PROCESSED WITH ALTUMIRA™ PLUS

- Stable and robust image quality throughout all types of variations in dynamic imaging.
- Altumira Plus is independent of variations in field size, placement of patient, organs in motion, etc.
- The harmonized intensity levels and robustness is enabled by deep learning technology.

Altumira™ series

Add-ons

Exposure Index (EI)

- Enables automatic dose monitoring
- Ensuring correct patient exposure for each anatomy and projection
- Based on deep learning technology for Altumira™
- Delivers the object mean or median value

Doctor's Interface (DI)

Allows the manufacturers to create a graphical user interface for end users to optimize image features on each individual unit in the field.

OEM Tuning Interface (TI) Altumira™

Allows the manufacturers more flexibility than DI in fine-tuning image parameter files. Intended for OEM Application Specialists performing in-the-field customization of image quality.

OEM Tuning Tool (TT) Altumira™

A stand-alone tuning tool with an advanced graphical interface allows the manufacturers to optimize image features and generate new system settings. The new settings can be distributed to the field after completion.

	Doctor's Interface (DI)	**Tuning Interface** (TI)	**Tuning Tool** (TT)
Graphical User Interface (GUI)	-	-	X
Parameters	5	11	11
Optimization location	In field	In field	In house
Recommended user	End users; doctor, radiographer	OEM application specialist, service engineer	OEM R&D inhouse application specialist

Building **strong** partnerships

We offer you almost 40 years of experience in medical imaging through state-of-the-art image enhancement software and professional support.

With a versatile and configurable design, ContextVision's products can be customized to all needs regarding clinical applications and customer preferences.

All ContextVision products are designed for seamless integration. The products are delivered as an SDK containing a .dll file together with parameter files (XML files). The parameter files control the settings of the image features of the algorithms.

With our continuous development and innovative technology, a partnership with ContextVision offers you a leading position in radiography – today and tomorrow.

Contact ContextVision for more information about the best solution for your needs and visit our website at www.contextvision.com.

> ContextVision's products are customized and optimized for each client by our highly experienced application engineers.

Let's improve image quality – **together.**

ContextVision

ContextVision is a medical technology software company specialized in image analysis and artificial intelligence. As the global market leader within image enhancement, we are a trusted partner to leading manufacturers of ultrasound, X-ray and MRI equipment around the world.

Our expertise is to develop powerful software products, based on proprietary technology and artificial intelligence for image-based applications. Our cutting-edge technology helps clinicians accurately interpret medical images, a crucial foundation for better diagnosis and treatment.

The company, established in 1983, is based in Sweden with local representation in the U.S., Japan, China and Korea. ContextVision is listed on the Oslo Stock Exchange under the ticker CONTX.

For more information, please visit www.contextvision.com →

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