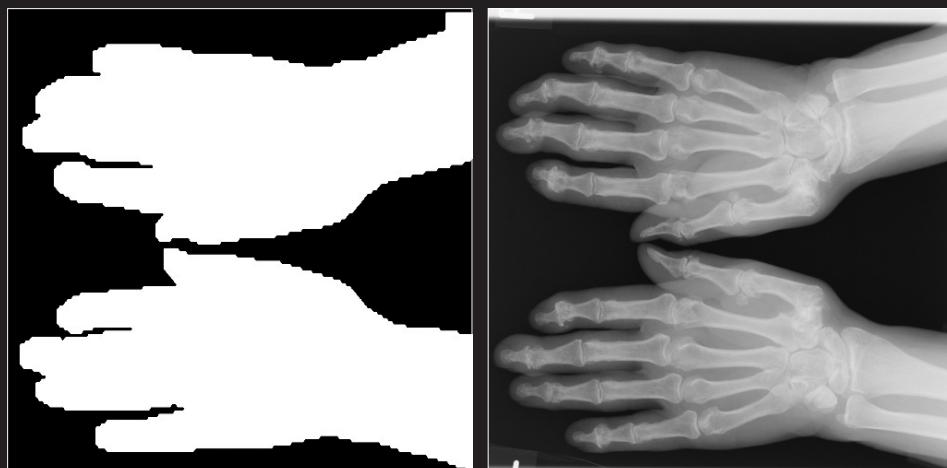


IMPROVED DIAGNOSTIC VALUE AND HIGHER THROUGHPUT



ContextVision brings to digital X-ray a sophisticated adaptive technology for noise suppression, robust auto collimation, edge and contrast enhancement and effective dynamic range compression. The result is better fine structure depiction, allowing for visualization of subtle pathology, less soft tissue noise using the new set of noise suppression algorithms and artifact elimination in a detector-independent solution. Enhanced images are easier to view, creating improved diagnostic value and higher throughput. All of this is achieved with a future-proof technology.



EXAMPLE

The relevant image region of a pair of hands to the left and the unprocessed original image to the right.

Exposure Index Region Calculation EI

ContextVision's Exposure Index module for digital X-ray enables automatic monitoring of the digital X-ray system to continue to deliver correct exposure to the patient, for each anatomy and projection. The true EI is developed to follow the latest regulations for dose monitoring according to the

International Electrotechnical Commission (IEC) standard. It is based on an accurate measurement performed only on the relevant image region, i.e. true tissue.

QUICK FACTS

Real pixel average values input for exposure index calculation, based on a true anatomy segmentation of the unprocessed image.

The ability to allow for exact measurements even with off-center positioning or other image flaws, thanks to robust technology that can handle uncharacteristic images.

Fast and efficient throughput.



EXAMPLE

The image to the left shows before DCL (defects are marked with red), while the image to the right shows after DCL.

Defect Correct Library DCL

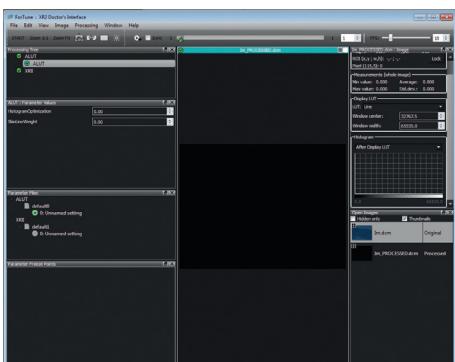
The DCL module from ContextVision is a dedicated add-on product that is intended to detect and correct deviating pixels in the digital X-ray detector. Both defect and “dead” pixels are detected and corrected in the processed image. Panel artifacts, single defect pixels, pixel clusters, rows or columns, can all be detected by the DCL and

corrected to appear as an integrated part of the resulting image. The DCL is a perfect prerequisite for collecting excellent images together with the image enhancement library GOPView XR2^{Plus}.

QUICK FACTS

Real pixel-by-pixel monitoring of panel defects, detecting deviating values and correcting them so as to make them an integrated part of the image.

Panel correction independent of imaging technology used CR, CCD or DR, still able to deliver an optimal output image.



Doctors Interface DI

Medical equipment manufacturers can easily include image enhancement controls for the end customer/hospital. The DI is a tool that can be called up for modifying image enhancement parameters intended for the radiologist. Using the DI, different image enhancement parameters can be adjusted to customized levels: noise suppression, edge enhancement, contrast, and latitude compression for the display of thin and dense tissue simultaneously. In addition, the level of visualized skinline in the image can be adjusted. Finally, histogram optimization allows for superior visualization of the whole image with respect to available greyscales and the type of tissue you want to display.

Now, clinicians are able to adapt our technology to their own specific preferences and needs.

QUICK FACTS

Higher clinician satisfaction by defining image preferences on-site, with a local user interface.

A robust and simple framework to modify a selection of imaging parameters according to individual taste.

An integrated and easy to use tool for OEM application specialists at installation.

Since 1983, ContextVision has been a leading provider of image enhancement software to the global medical imaging industry, with the versatile GOP® technology at the core of all our imaging solutions. We play a key role in helping manufacturers by offering clinicians unparalleled diagnostic image quality, ultimately providing patients with better care. ContextVision continues to offer the latest software and expertise within ultrasound, x-ray, magnetic resonance imaging, mammography, fluoroscopy and computed tomography. Our groundbreaking technology and lengthy expertise have granted us a pioneer position within 2D/3D/4D image enhancement across multiple modalities.

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