Intelligent Image Processing for High-Performance Production Environments
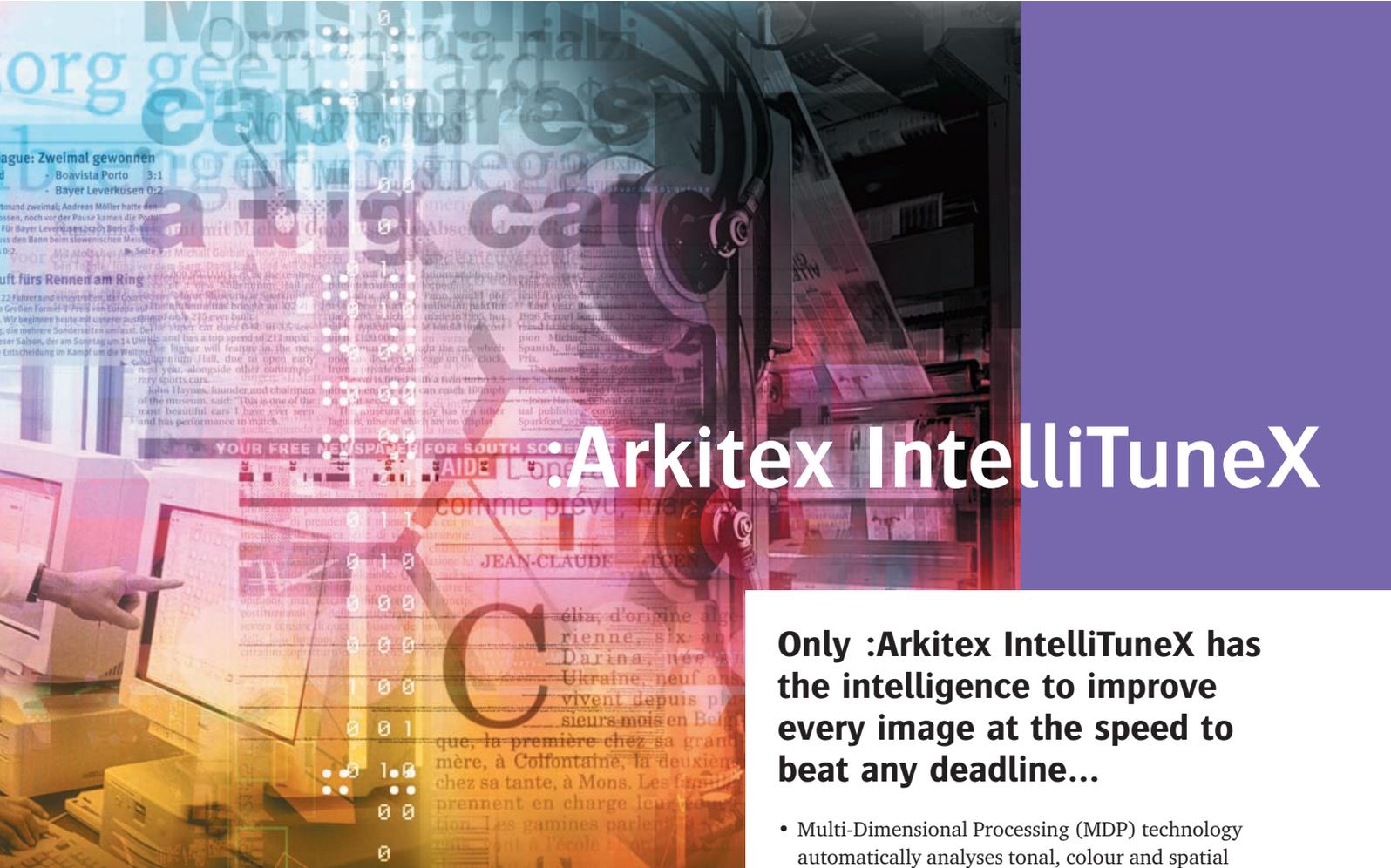
:Arkitex IntelliTuneX

Automatic, Intelligent Image Processing

Today's challenge is automating the imaging process in a newspaper environment, where images come in with large variations in quality and consistency.
:Arkitex IntelliTuneX meets that challenge, offering you an intelligent, production-minded solution to guarantee that you can consistently publish the highest quality images. We have listened to our customers and continue to improve :Arkitex IntelliTune, the much-requested version running on a PC platform is now available.

AGFA *Agfa*

:Arkitex IntelliTuneX

Only :Arkitex IntelliTuneX has the intelligence to improve every image at the speed to beat any deadline…
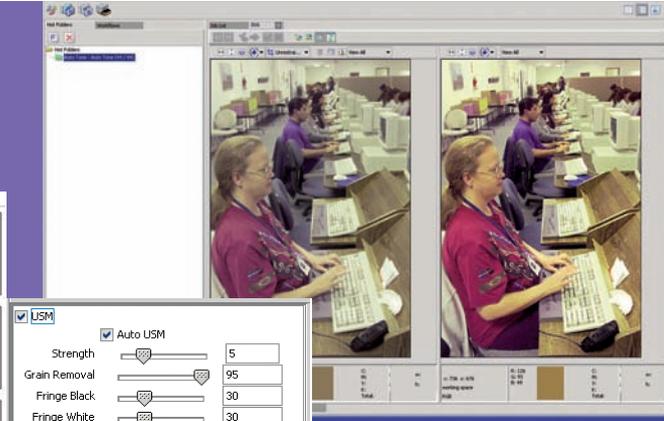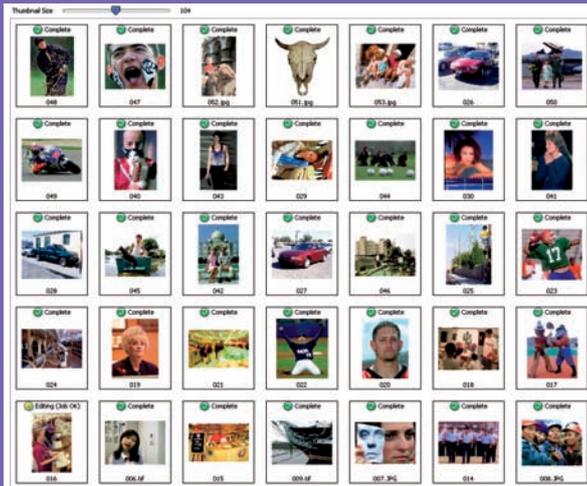
- Multi-Dimensional Processing (MDP) technology automatically analyses tonal, colour and spatial characteristics in every image, then calculates and applies the necessary corrections for optimum reproduction.

- Professional colour conversion, JPEG compression adjustment, destairing, descreening, resolution enhancement, and noise reduction

- Multiple configurations can be set up for processing for any image.

- Integrates seamlessly into operator-controlled, semi-automatic, or fully automated workflows.

- Retrieves and saves in a variety of file formats

- Easy to use Compare feature lets you Approve or Reject the processed image

- New interactive edit allows operators to make any final corrections they may wish to as an integral part of :IntelliTune, while comparing the result with the original image

- New PDF option allows automatic enhancement of all images inside a PDF file

- New client-server based version running on PC platforms.

- Mac-based :IntelliTune Series 4 released to the same standard as :Arkitex IntelliTuneX

Exceptional Quality… Unsurpassed Productivity.

:Arkitex IntelliTuneX adds greater versatility, quality control and productivity to the industry's most advanced image-processing solution.

Compatible with all industry-standard file formats, it is the ideal solution for newspaper producers who receive images from such a wide variety of sources.
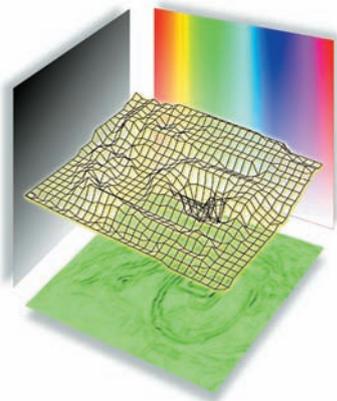
With IntelliTuneX all you have to do is set your preferences, go to automatic mode and the software does the rest.

A selection of :IntelliTuneX screen shots.

Multi-Dimensional Processing (MDP)

It's the secret of :Arkitex IntelliTuneX's success. And the brains behind the interface. MDP is the culmination of Agfa's experience in analogue and digital image capture, photographic and raster image processing, screening technology, colour management and image output.

Intelligent Analysis...

MDP analyses spatial quality and geometry, as well as tonal characteristics and colour values. That means that the mapping software can identify skin tones, for example, by the geometry of the human face in addition to the colour and tonal values of the skin.
The software uses frequency data to identify areas of significant content concentration.
With this information the software can point to a spot where sharpening was previously applied, for instance, to prevent excessive sharpening.

Intelligent tuning...

Next, MDP combines the colour, tonal and spatial data to calculate the adjustments needed for optimum image reproduction. By doing so, the integrity of the original image is never sacrificed.
It also takes previous sharpening into account and adds only what may be needed to achieve the level of overall sharpening set in the parameters.
:Arkitex IntelliTuneX has a unique feature for CMYK images where the source profile is neither provided nor known. It can intelligently work out what the profile was and retrieve the intended colours.
Finally, based on these calculations, MDP *tunes* the image to achieve consistent high-quality output.

Intelligent productivity...

MDP gives you automated intelligence. That means you get all the benefits of individual image processing at a speed that surpasses any batch-processing program on the market. There's no need to pre-sort, predefine or pre-batch. MDP does all the thinking for you.

Intelligent Interfacing...

:Arkitex IntelliTuneX has an even greater scope of possibilities for interfacing. Firstly, there is a tight integration with :Arkitex workflows. There is an expanded configuration facility to allow a wide range of workflows to be constructed easily.
There is also an interface where third-party applications, such as page make-up systems, can send XML commands to perform actions such as cropping, rotation, resizing and running custom scripts automatically.
With this, IntelliTuneX can for example provide a seamless integration with page make-up systems.

:Arkitex IntelliTuneX
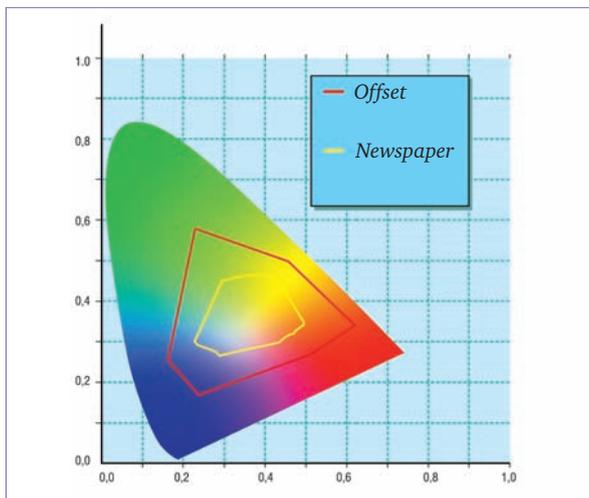
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PDF option

:Arkitex IntelliTuneX provides an option which can work with PDF files.

In automatic mode, every image inside the PDF file is automatically enhanced and enriched, and the PDF file on output can be sent directly to the workflow.

There is also an interactive mode which allow "before and after" comparisons of each image within the PDF file, and use of the interactive edit facility for any final touching up that may be wanted. There is also a facility to replace images and crop them subject to retaining the same aspect ratio.

This allows :Arkitex IntelliTuneX to work with images and pages which are provided in PDF format by the supplier, to simply work on the output of a page make-up system, or even on a print site.

IntelliTuneX offers a Restore Dynamic Range function. This allows CMYK files with a reduced colour gamut to be sent into IntelliTune and still produce high quality outputs.

Reduced colour gamut in newspaper printing.

Customer Comments

"Most impressive about :IntelliTune is the quality and the speed that it processes the images."

Herr Fedor Schreiter-Chemnitzer Verlag und Druck GmbH, Germany

"With the use of :IntelliTune, we are able to crop and rotate the images, based on XML data sent by our editorial system."

Herr Fedor Schreiter-Chemnitzer Verlag und Druck GmbH, Germany

":IntelliTune is fabulous. Agfa worked closely with our photographers and prepress personnel, to ensure that we hit the correct standard right from the outset. This effort is a must and one that can drive measurable benefits from receipt of incoming image to press.

You might say literally to the bottom line!"

Jo Newell - Managing Director, Surrey and Berkshire Press, UK

"B & W is nearly all :IntelliTune—sharp, clean, fast and reliable. Overall, the paper looks the best it has in at least a year"

John T. McKinney - Quality Coordinator, The Oregonian, Portland, USA

"Since we've installed :IntelliTune our last Optimum Quality Test Score rose 7 points to a personal best of 93.5 and after only two weeks of using the product placing us in the top 10, in quality, of the Gannett Newspapers."

Howard Lawrence - Poughkeepsie Journal, NY Production Director, USA

"We have a reliable, fast and consistent colour management system in :IntelliTune and to prove it, the Evening Herald has once again joined the IFRA colour quality club with 95% of all pictures going the completely automatic :IntelliTune route."

Sam Duncan-Brown, Technical Manager, The Northcliffe Press, UK

Expert Image Processing Services

We offer a range of expert services enabling you to derive maximum value from your investment.

- Initial audit of your imaging workflow
- Installation, fine-tuning and Expert Training
- Annual support contract including software updates, remote support and help desk
- Additional services such as Press Characterization, PDF Implementation, and Image Delivery Improvement.

Stay Ahead. With Agfa.

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