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## Integrate automatic individual image analysis and enhancement into your workflow.

Elpical Claro Single is a giant leap beyond other automatic image enhancement tools which only apply one set of filters or algorithms to every image they receive. Claro Single **individually analyzes** each image for such parameters as sharpness, brightness, contrast, color balance, saturation, natural greens, skin tones, Exif information and much more. Claro then **individually enhances** the JPG, TIFF, BMP, (Photoshop®) EPS, PSD or DCS-RAW images for consistently high-quality results based on their particular requirements.

For example, the type of sharpening applied will depend on sharpness and noise levels in the original, ensuring crisp images every time with no more over-sharpened edges.

Claro Single offers the ground-breaking ability to **automatically enhance, resample and color convert images** using intelligent ICC color conversions and profile assignment/embedding. It can also make local contrast enhancements that respect overall image brightness and even **process images inside a PDF** - all features which add up to make it an indispensable cornerstone of your print or web-based workflow.

During the installation and integration phase, all automatic image enhancement features are **easily set up with straightforward interactive settings**.

Integrate Claro Single into an Enfocus Switch® or Puzzleflow® workflow and you have a **multi-processing, server-based alternative to Photoshop®**. The XML jobfile support capabilities of Claro Single allow **easy integration into existing workflows of publishing, printing, and online communication companies**. Unleash the power of Elpical Claro technology in your workflow with Claro Single to boost image quality and productivity.

### Benefits

- Provide consistently high-quality image enhancements across varied individual images
- Save massive amounts of time on producing image-specific enhancements
- Process with confidence, knowing Claro Single will only enhance images where needed, perform in-file PDF image enhancement, as well as image output with correct ICC profiling
- Seamless integration into existing workflows with minimal set-up (Enfocus Switch® and Puzzleflow®)



Press & Publishing

System integrator &  
Software developers

Photo processing  
for web & print

Printing & Copying

## Key Features

### General

- Claro Individual Image Analysis (ClIA) for automated image enhancement based on each image's specific requirements
- Consistent image enhancements across a wide range of image types (TIFF, JPEG, DCS-RAW, Photoshop EPS, BMP, etc.)
- File output support for TIFF, JPEG, EPS, PSD (including original layers, compatibility layer and processed layer)
- Multi-platform availability
- Up to 4 parallel image-processing threads for maximum performance and multi-processor capability

Output file format	PSD
Output PSD options	Yes
Keep original layers	Yes
Original as layer	Yes
Processed as Layer	Yes
Add compatibility layer	Yes

- XML job file support for easy integration into existing workflows
- High level memory management

### Image optimization

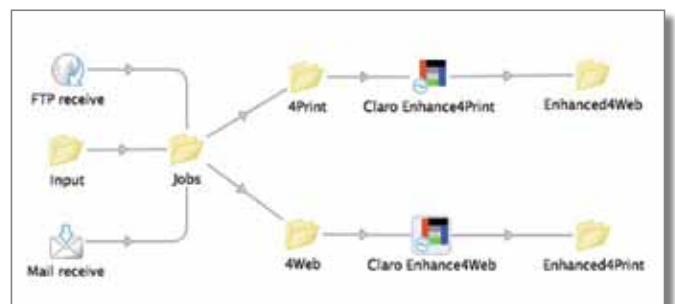
- Local contrast enhancement of image details with respect for overall image brightness
- Superior control over and dynamic optimization of sharpness, brightness, saturation, noise, black point/white point, and color balance

### Image processing

- Images inside PDF files can be enhanced, resampled and color converted
- ICC based color conversions and profile assignment & embedding
- Device link profile conversions
- Influence rendering intent based on out-of-gamut percentage
- Resampling and resizing of images
- Grayscale conversion
- Add processing data in the XMP data of the processed file

### Workflow

- Fully integrates into workflows (Enfocus Switch® and Puzzleflow®)
- Embed processing information into XMP



## About Elpical Software

Elpical Software, an international company with offices in The Netherlands and Germany, develops and markets software solutions for the production and enhancement of digital images and the automation of the image workflow. Based on extensive image analysis, the technology enables publishing houses to automate the enhancement of produced images. Elpical was established in 1997 by a management buy-out of the Electronic Imaging department of Victor Hasselblad AB. Since then, Elpical has become a leading specialist in the field of digital image enhancement and management.

The manufacturer's key products include Claro Single, Claro Premedia Server, 4LeafClover and EmailManager. Elpical's core competence in the field of digital images makes the company an ideal partner for other software suppliers who want to combine Elpical products with their own applications, or for system integrators who want to integrate expanded image functions in their own products. Elpical has concluded an OEM agreement with, among others, Océ® for the enhancement of embedded images from PDF documents.

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