



New DxO Analyzer v4 to add revolutionary detail preservation measurement for greater in-depth camera assessment

Visually-correlated, I3A-standard texture measurement technology, plus advanced video quality analysis, strengthen DxO Analyzer's leading position.

September 20, 2010 – DxO Labs today unveiled DxO Analyzer version 4, the new version of its industry-standard image quality evaluation solution, adding two very important features to make it the most unique and complete on the market — texture measurement and video measurement.

About the new Texture Preservation Measurement

“With DxO Analyzer v4’s texture measurement capability, we address two key factors that were missing for all computer-based image quality evaluation systems so far: first, measuring the capability of digital cameras to capture details while coping with noise; and second, providing that measurement in a way that correlates with how consumers see pictures,” said Nicolas Touchard, Vice President of Marketing, DxO Labs Image Quality Evaluation, “Also, we’re very proud that these measurements are currently being defined as a I3A standard.”

There are known methods to measure noise and sharpness separately, but until now there were no means for understanding how a camera captures details while keeping noise to a reasonable level. The breakthrough of the method developed by DxO Labs is that it correlates very well with the human visual system—that is, with people’s subjective perception of detail.

This measurement is critically important to the whole digital camera design community who need such evaluation tools to understand how their products behave in the hands of consumers.

While developing its testing tools, DxO Labs has been working closely with international organizations to validate its technology and incorporate it into standardization efforts.

According to Lisa Walker, president of I3A (the International Imaging Industry Association), “DxO Labs has been a major contributor to the standardization of cameraphone image quality evaluation undertaken by I3A over the past several years. DxO Labs has proposed innovative methods to address the challenge of developing objective metrics for important image quality attributes, which



the CPIQ (Camera Phone Image Quality) team has successfully correlated with consumer perception. In particular, DxO Labs' approaches to measuring texture preservation, distortion, chromatic aberration, and color shading have been the foundation for CPIQ participants to build toward our goals."

About the new Video analysis capability

Video capture is widely available in digital cameras today, from cameraphones to high-end DSLRs. In response to this, the new DxO Analyzer v4 now provides measurements performed on image sequences (both RAW and RGB files). Further, to speed up measurements and ensure repeatability, DxO Analyzer on video is fully automatic.

With its dedicated video extension, DxO Analyzer v4 offers the following key video quality measurements:

- Auto-exposure and white-balance stability;
- Temporal and spatial noise characterizations (FPN, PRNU, defective pixels analysis, row and column noise spectral analysis).

Starting from this set of essential measurements in Version 4, DxO Labs will continue to add additional video signal analysis capability.

DxO Analyzer v4, the most complete image quality evaluation solution on the market.

Version 4 also features new optical and sensor measurements for color fringing, advanced color shading, and green channel imbalance, along with interface and workflow improvements.

All these new features added to the existing set of fully automatic image quality measurements, maintains DxO Analyzer's leading position as the most integrated, reliable and automatic solution on the market.

About DxO Labs

DxO Labs offers products and solutions ensuring excellence in digital imaging. The company develops and licenses patented intellectual property serving the entire digital imaging chain:

- For consumer electronics OEM/ODM (such as digital camera and camera phone vendors): embedded software and silicon architectures for real time still and video image processing;
- For imaging component suppliers (camera module manufacturers, sensor vendors, and processor vendors) as well as photography journalists and imaging experts: image quality evaluation and measurement tools;
- For serious and demanding photographers, PC and Mac solutions to enhance cameras image quality.

For more information, visit DxO Labs website at www.dxo.com

Press Contact Information

DxO Labs press relations

Mateja Smigoc

+ 33 1 55 20 55 99 (France)

press.relations@dxo.com

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