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MVP Color Optimizer[®]

Achieve the highest optimized color for your electronic images

MVP Color Optimizer[®] will be your first choice for enhanced color correction

- Performance
- Ease of use
- Rapid Conversion

MVP Color Optimizer[®] is a software tool that optimizes the color image quality achievable from single chip imagers that use a Bayer-pattern color filter array. Available as an IP core for either Xilinx or Altera FPGA or an Active X control (COM), MVP Color Optimizer[®] is easily integrated into most applications that run on a PC under the Windows Operating System.

MVP Color Optimizer[®] determines and corrects deficiencies inherent in the capture of color images when using a camera with a single-chip Color Filter Array (CFA) sensor. MVP Color Optimizer[®] works to minimize color artifacts (e.g. "rainbow-colored edges") and renders the colors in the image to more closely match that of the original object (i.e. ISCC-like device-independent color rendering). MVP Color Optimizer performs these tasks automatically with little or no user intervention.

Optimal color quality is achieved by imaging a color target, such as the MacBeth Color Checker[™]. MVP Color Optimizer[®] automatically extracts and analyzes the data from the image of the color target and determines parameters that provide the optimal image quality achievable for your images. Once determined, these parameters are then serialized and saved for future processing of images.

Multiple image frames and sequences are easily processed (i.e. optimally converted to full color images) via a simple command sequence.

Features

- MVP Color Optimizer[®] is available as an IP core for either a Xilinx or Altera FPGA or as an Active X control and is easily integrated into most applications and programming language/tools you use such as Visual Basic, Visual C++ or Java.
- Bayer Color Conversion made easy
- User adjustable Black Level, White Balance, Color Enhancement, Edge Enhancement & Gamma Correction
- Most standard file formats are supported for reading and saving image files as 8, 10, 12 and 16 bit formats
- Multiple image frames are easily and rapidly processed

Applications

- Still Imaging
- High Speed Video
- Scanned Images

Cameras Supported

Cameras that use a single-chip bayer-patterned CFA sensor.

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