The power of digital.
The essence of film.
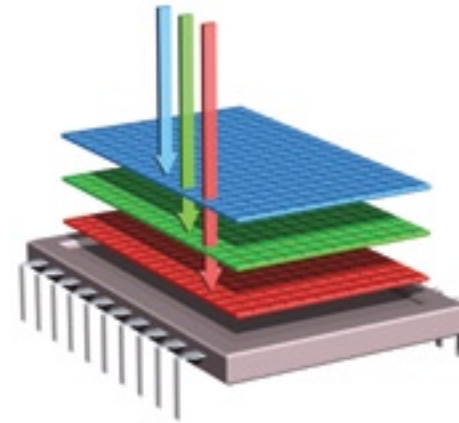
X3 FOVEON® | DIRECT IMAGE SENSOR

An entirely new way to capture color.

Introducing the Foveon X3® direct image sensor, a new generation of technology that works like film.
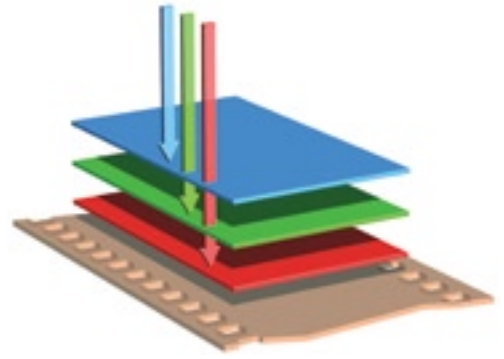
When you use a digital camera equipped with the Foveon X3 direct image sensor, you aren't just taking pictures. You're taking a giant leap forward in color photography.

It's the most advanced image sensor ever developed, and the only one that captures color in three layers, just like color film. As a result you get rich colors, warm tones and sharp images, with all the convenience you expect in a digital camera.
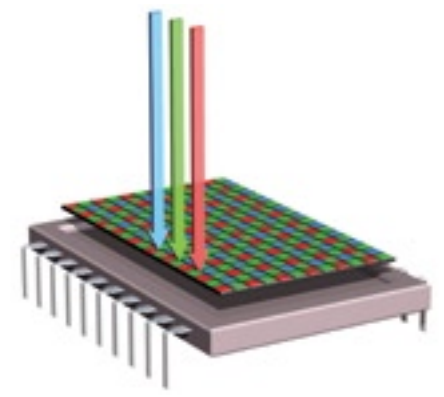
Remember, the quality of your digital photos can only be as good as the image sensor inside the camera. So discover for your-self the advantages of the Foveon X3 direct image sensor—and discover an entirely new way of taking pictures, combining the power of digital with the essence of film.
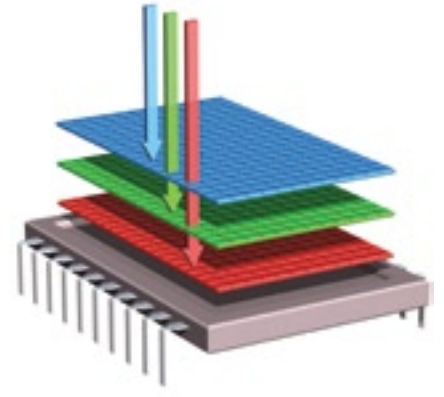
X3 FOVEON® | DIRECT IMAGE SENSOR

First came film, then digital. Now there's an image sensor that delivers the best of both.

COLOR FILM contains three distinct layers of light-sensitive emulsion. Each records a different color of light—red, green or blue. By directly capturing all of the color, film produces rich, sharp, beautiful prints.

TYPICAL IMAGE SENSORS have just one layer of pixels arranged in a mosaic pattern. Each pixel records only one color—red, green or blue—so complex processing is needed to interpolate, or indirectly fill in, the rest.

FOVEON X3 direct image sensors feature three layers of pixels to capture full color, just like film. The layers are embedded in silicon to take advantage of the fact that red, green and blue light penetrate silicon to different depths—forming the first and only image sensor that directly captures full color at every pixel location.

"One of five chips that will change your life"
—Forbes.com

"Best of what's new in photography"
—Popular Science

"One of the year's best inventions"
—TIME

"Award of Technical Excellence"
—PC Magazine

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X3
FOVEON®

DIRECT
IMAGE
SENSOR

A difference you can see.

© Rick Decker, 2003

Innovative software features deliver exceptional control, for images of incredible beauty.

Foveon X3 Fill Light

Original   Corrected

The unique design of the Foveon X3 direct image sensor supports powerful software capabilities, including RAW format processing for the ultimate level of control.

One example is X3 Fill Light, a unique software feature that dramatically improves image quality in challenging lighting conditions, such as people standing in front of snow or sunny windows.

Using X3 Fill Light's simple slider control, you can simultaneously adjust the overexposed and underexposed areas, creating beautiful photos from images you otherwise might discard.

Additional features include White Balance, Color Correction, Exposure, Contrast, Highlight, Shadow, Saturation and Sharpness controls, as well as a powerful Auto adjustment option.

X3 DIRECT IMAGE SENSOR
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