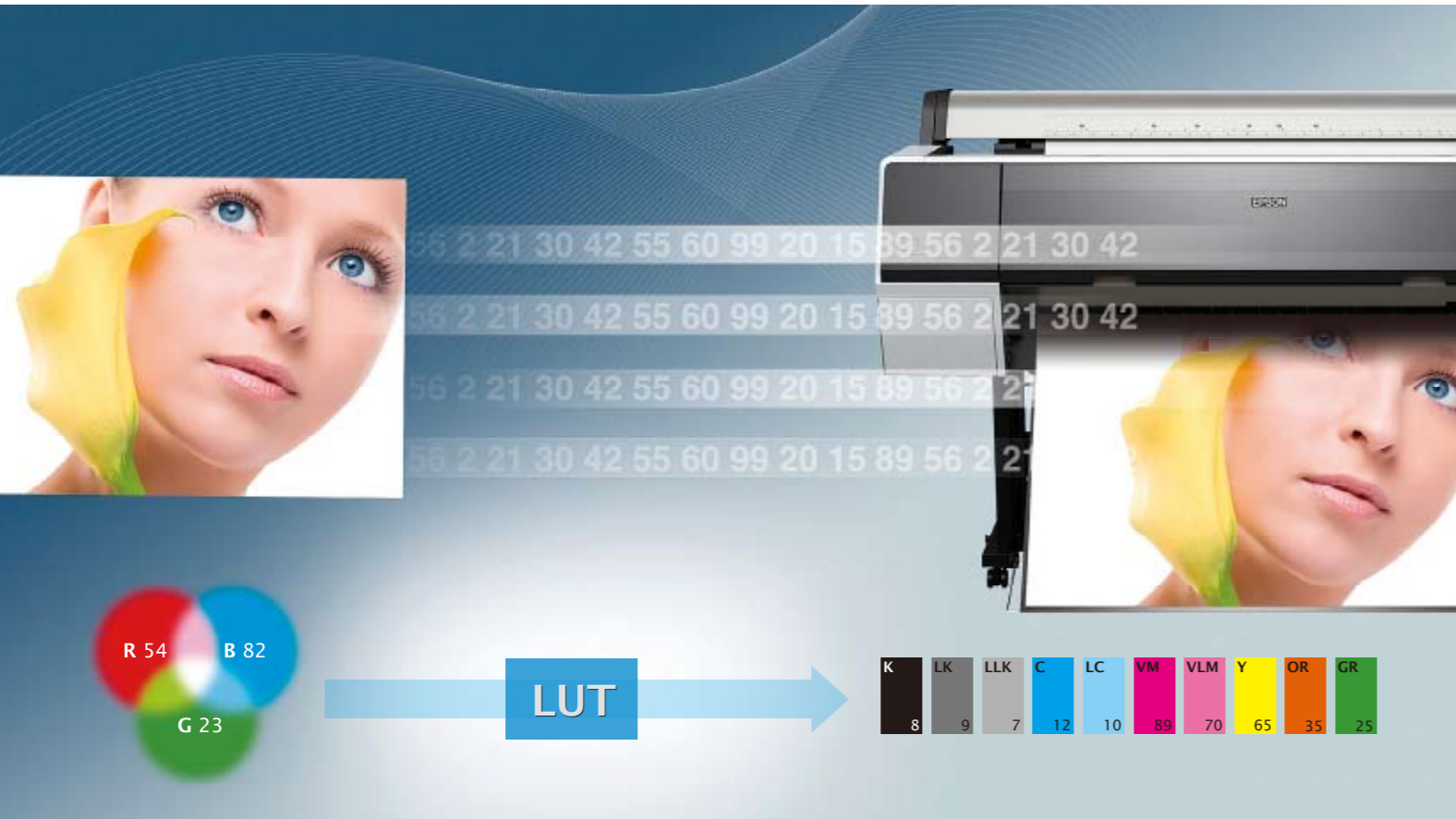


Epson new LUT technology optimises colour quality



The assurance of maximum colour fidelity across the spectrum

With the expanded colour gamut provided by Epson UltraChrome HDR ink, achieving precise colour accuracy requires significantly greater processing power. Epson new LUT (Look-up table) technology is up to the challenge, maximizing use of the colour gamut and improving ink utilization by seamlessly integrating high-fidelity ink primaries. Developed

through fundamental research conducted jointly with the Munsell Colour Science Laboratory at the Rochester Institute of Technology, Epson New LUT Technology not only improves colour fidelity, it reduces graininess in skin tones, improves colour inconstancy, and ensures smooth gradations between colours.

About Look-up tables

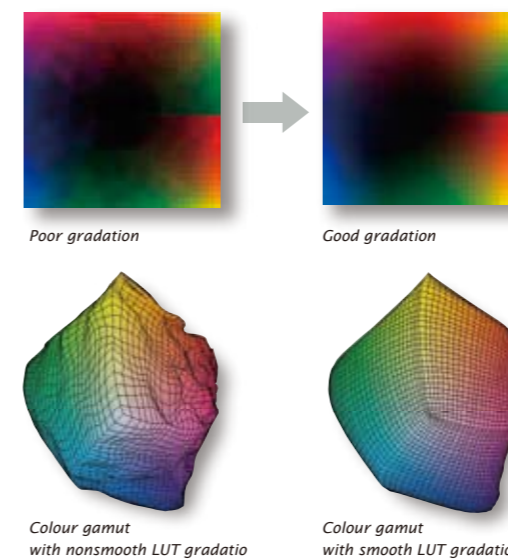
To print a given colour on an inkjet colour printer, colour information (either RGB or CMYK) must be converted so that the printer knows which ink colours to blend, and in what amount. To perform the extremely complex calculations required for image data to ink conversion, a massive reference table of colour data called a Look-up table, or LUT, is used. Image quality is to a large extent determined by the

choice of which ink colours to blend, and how much of each should be used. Although the number of ink combinations possible with an 8-colour printer is virtually uncountable, Epson New LUT Technology automatically selects the optimum combination to accurately express the desired colour.

Additional benefits of new LUT technology

In addition to maximising use of the wide colour gamut and ensuring the highest possible fidelity to the original image, Epson new LUT technology provides three other major benefits that improve print quality.

Smooth colour gradations



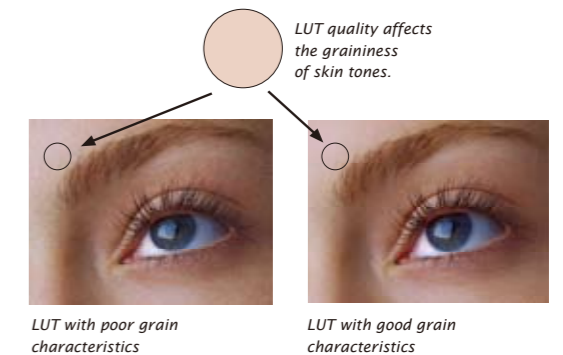
In many types of images, such as artistic photos and outdoor scenes, colours blend into one another. The smoothness of these gradations is a major factor in determining image quality. Epson new LUT technology provides a smoother colour gamut for finely detailed gradations between colours.

Munsell color science laboratory (MCSL)

MCSL, located within the Rochester Institute of Technology in New York State, is the pre-eminent academic laboratory for colour science education and research. Epson new LUT technology was developed based on the results of basic research carried out jointly by Epson and MCSL scientists.

Graininess is no longer noticeable

Graininess is especially noticeable in the skin tones in portrait or commercial photography. Epson new LUT technology reduces graininess by optimising the fine colour dispersion in each pixel.



Consistent quality in all types of light

Epson new LUT technology also contributes to virtually eliminating colour inconstancy, so prints look the same under all light sources.

