

# Intelligent Interweaving Technology too intelligent?

Mutoh i2 for real life prints

By Ton Rombout

Scanning an image with 6000 ppi (scanners like this do exist!) and printing it with 300 dpi creates a lot of waste. In the end the image on the printed material is no better than, for example, a 300 ppi scanned image. The same applies to printing resolutions that go beyond human perception. At a certain distance, we no longer see the richness and details of the image.

With Mutoh's i2 intelligent interweaving, the viewing distance for an image is very important to the set-up of the printer. Viewing distance is divided into four groups: less than 1 m, more than 1 m, more than 3 m, in excess of 5 m.

The decision sequence is represented in these printer set-up stages and clarifies the meaning of i2. Printing becomes a simple operation and the quality associated with specific viewing distances is outstanding.



The ValueJet 1608-64" Hybrid can print with ecologically friendly Mubio inks.

## Three criteria

Mutoh feels that images are viewed on the basis of three criteria, i.e. the distance from and viewing angle in respect of the image, the image type and the image content.

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The image type represents the answer to the question: is it a sign that requires maximum print quality, or a less demanding picture that can be printed faster?

The third aspect, image content, relates to detail, i.e. is there a lot or not so much detail.

This is all you need to know to make the decision whether or not to print the best quality, which obviously depends on the purpose for which the printed material will be used. Mutoh's i2 technology will

enable you to select the optimum print mode in order to deliver the impeccable print quality your customer demands for a specific purpose.

## Different printers

Print quality depends on the printer's head technology, the inks and the substrates being applied. Compare this with colour management. In fact, you need a specific ICC-profile to print on a specific material or print with a specific ink on a specific printer.

Mutoh did a lot of research in this field, which indicated that in most print shops operators become familiar with only a few of the hundreds of set-up options on their wide format printers. They rarely have the time to efficiently get the best out of their printers. Some print jobs are over-specified, take longer, use more consumables and cost more than necessary. Other print jobs are under-specified, which results in lower quality and a risk of repeat work or lost business.

With i2, intelligent interweaving technology, Mutoh has developed a guided printer set-up for each printer. Users can effortlessly select the most suitable print mode and predict how long printing will take. The operator only needs to know the three different criteria for that specific printer and purpose for which it will be used.

## Keep it simple

Mutoh kept it simple, perhaps too simple for the professionals, as they are usually dazzled by the high resolution figures provided by many other printer manufacturers. However, they also benefit from easy and a fast production, resulting in the best quality for the job. This is why i2 works not only for novices, who benefit from a user friendly system that enables them to produce the best quality for a specific purpose and image, but also for professionals who do not have the time to find out with every job what the specifications are for optimum results. Mutoh's research has done the job for them – it is incorporated in every Mutoh printer.

## Who cares about technology?

Do you have to know what happens under the bonnet of your car to drive somewhere? Yes, but only on occasion, for example when you are lost in the middle of nowhere without fuel and with a flat tyre. Most of the time you really don't care. The same applies to the technology that enables you to produce the best quality for a specific purpose on your printer. Do you want to know what happens under the bonnet of your printer? Yes, of course you do, because you are curious, intelligent and creative. That is why I am going to tell you a bit more about this amazing technology.

## Intelligent Interweaving Technology

With Mutoh's Intelligent Interweaving technology - i2 - ink is laid down in carefully optimised wave forms as opposed to the straight lines used on most wide format printers. This results in a drastic reduction in, or even complete elimination of, defects such as horizontal banding, ink mottle, bleed and the visible effects of missing or misfiring nozzles. Dedicated print weave patterns are being developed per individual printer type. This new technology is now standard on most Mutoh wide-format piezo inkjet printers. But Intelligent Interweaving is more than just printing in waves. One of the main benefits of i2 is that it offers predictable and reproducible output quality on the basis of a few criteria (three to be exact). Printer users are able to print ideal quality images fit for purpose time and again in the shortest possible time. As such, i2 provides an unprecedented level of user comfort to the printer operator. i2 printing technology eliminates banding, mottling and bleeding, creates the brightest images from a minimum of ink and achieves high definition sharp edges and fine detail at the fastest possible speed.