

# Metis: Improved Performance

## Print inspection for pharmaceutical packaging glass

### The Metis

Print on pharmaceutical packaging glass can contain vital information. It is therefore critical that the print is correctly printed. The Metis offers a reliable and robust way to inspect print on 100% of your ampoules, cartridges, syringes and vials. The system can be mounted in-line on new and existing production lines and requires little maintenance and set-up time.



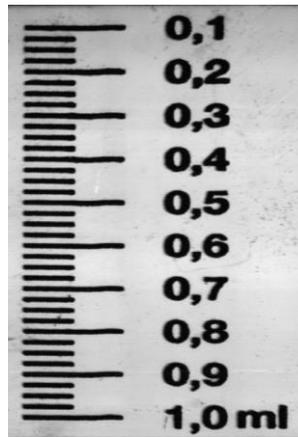
### Method

The Metis inspection system detects the presence of ink on the product based on reflection. This has shown to be the most reliable and robust method and it has proven itself for many years. The product is picked up from the conveyor and rotated 360° for a full inspection. The inspected product is compared to a reference image to check if the print has been applied correctly.



## Reflective Ink

On non-reflective print the reflection method works perfectly but when reflective ink is used to print the inspection can be problematic. The reflection of the print can cause the so called 'open letter' effect. With reflective ink large areas of print can appear to be open to the inspection system. This can lead to false rejects which can not be accepted.

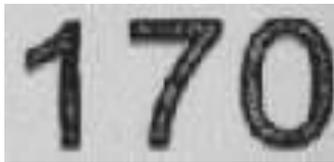


Non-reflective ink



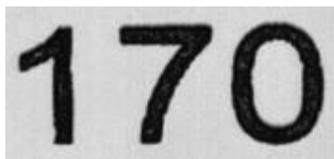
Reflective ink and the open letter effect

## Solution



Old: Open letters with reflective ink

Vimec carefully studied the open letter effect to understand the source of the reflection. Once understood, the light source and the optical path of the light was redesigned to minimize reflections into the camera. The minimized reflection drastically reduced the 'open letter' effect and increased the contrast resulting into a better and more accurate inspection.



New: No open letter and improved contrast

## Improved Performance

The improved performance is now standard on all Metis inspection systems. Depending on the model, older Metis systems can be upgraded. To prove the new capabilities of the Metis Vimec will gladly test your product with reflective ink on the new and improved Metis system.

## Vimec Applied Vision Technology B.V.

With over 25 years experience in the specific market of packaging glass, we are dedicated to design, build and validate superior visual inspection systems. Vimec offers a multitude in measurement possibilities to cover all your inspection needs.

Please feel free to get in touch for more information

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