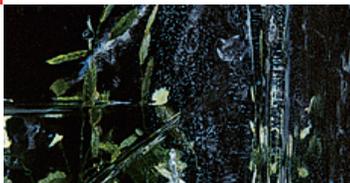


:ANAPURNA SOLUTIONS

Lenticular prints



Application description

Lenticular prints are prints on transparent material with lenses. By using wide or narrow angle lenses different effects can be obtained: 3D, flip-flop. Animation, morphologic changes, zoom-in, ... The accuracy of these prints is crucial, and the more lenses/inch, the more accuracy is needed. The lenticular files themselves are mostly created with dedicated software. This software needs to know the lpi of the lenses, the resolution of the engine... information that can be combined in a pitch test.

Technology used

- We used :Anapurna M with 40lpi lenses.
- Extra Wide Gamut configurations are used to ensure saturated colors are within reach.
- Color Profiles are made with ColorTune 5.0.

Production notes

- Alignment is the most difficult aspect. Therefore, lines from the pitch test can be printed on self-adhesive vinyl on the belt to fine-tune visually the registration. Putting the lenses horizontal with the fast scan will make feed-step adjust crucial for success. This alignment option will benefit from extra slow scan resolution in Q8P.
- When putting the lenses horizontal with the slow scan, transport will be easier; but fast scan inaccuracies will have a maximum negative effect (certainly when printing BI).
- Therefore we recommend using the alignment horizontal with the fast scan and give utmost attention on feed-step adjustment.
- The material can be very heat-sensitive. Therefore printing BI with 100% UV curing is not possible. Try 50%UV, and if needed also UNI.
- Printed UNI-directional with 50% UV power
- Normal speed (S7), 6m²/hour

Remarks

- Dotsize on L/XL/XL² is too big to perform well on lenticular prints. It should be noted that the required alignment for lenticular is out of the production specs of the Anapurna.
- This means that repeatability of a successful print cannot be guaranteed. Therefore, the :Anapurna M is good to make a very small quantity of lenticular prints (where other processes are too expensive, or also time consuming), but certainly not for big productions as it would result in a too high amount of waste samples.
- The success rate can go up (with an undefined, user-to-user dependent number) if you do not rely on the mechanical alignment bar alone; but also use the visual registration as explained above. We can only state that technically, the :Anapurna M has the capability to produce on 40lpi lenses. (We've not tested higher as it becomes more and more critical).
- Therefore, we recommend to perform a test under customer circumstances before signing an agreement.

