

G-switch® Colour Switch

The world standard in secure polymer substrate technology



The Papua New Guinea 100 Kina polymer banknote features a green to purple colour switch.

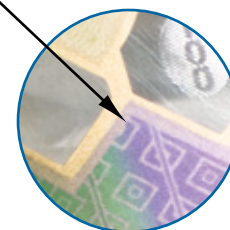
Security features for the public

Banknotes and security documents are under increasing threat of counterfeit and fraud. Whilst there is a growing range of complex and covert machine-readable features, the key to controlling counterfeit growth is to strengthen awareness at the first line of defence - the public.

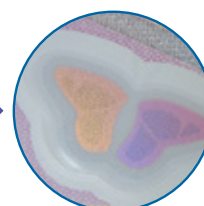
To maintain confidence in the currency and security documents, security features need to challenge the counterfeiters, yet be easy for the public to use and authenticate. Guardian® polymer substrate now presents G-switch®, another challenge for counterfeiters.

Dynamic colour shift

G-switch® is a dynamic optical feature that changes colour when tilted under a light source. The bright and transient colour-switching effect is produced in the substrate layers. When viewed at different angles, it alternates between two complementary colours, creating an optically reflective effect. The colour change is easily observed without special equipment or skill, making it easy to recognise by the public.

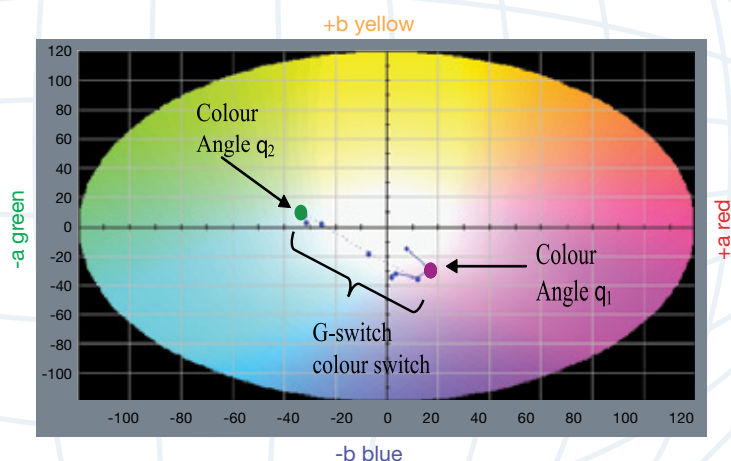


The Mexican 50 pesos features 2 colour switches, gold to pink in one wing and blue to pink in the other.



A number of colour switches are available to suit different banknote colour tones and designs, with a contrasting colour switch. The G-switch® effect is obvious under many different lighting conditions. The G-switch® is most effective when two different colour applications are used together giving contrasting switch effects.

Two-dimensional colour chart chromaticity



The G-switch® colour shift is dynamic. Due to limitations of digital printing, the above colour switches are indicative of the finished product.

Design integration

The G-switch® may be fully integrated as a key element of the overall design of the banknote, and complementary to other Guardian® security features. It can be in a full window or half window, and when put up to the light can provide a shadow image effect.

In contrast to some smaller security features, the G-switch® can be designed as a large feature for maximum effectiveness. Experience has shown that large, well-designed overt security features achieve strong public recognition, and the community more readily becomes familiar with them, as is the case with Guardian®'s complex window.

The benefits

- Security against counterfeiting. Casual counterfeiting is rapidly increasing in communities with easy access to scanners and digital printers. The G-switch® cannot be reproduced by digital printing.
- Durability. Because of its construction, this feature is highly durable. It functions well in full windows, and has the benefit of additional strength and protection as a half window, where the reflecting colour gains additional reflective brilliance through clear polymer film.
- Cost effective. The feature is produced during the construction of the substrate, and is a cost effective security feature which can tolerate the tough handling conditions usually associated with low denomination banknotes.



SECURENCY
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