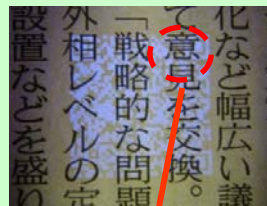


IBM Invisible Barcode Technology

IBM Invisible Barcode technology is composed of a 2D barcode extracting technology from the picture image of a overlapped barcode on printed materials and a layout technology for DTP systems to layout a barcode at optimized position and size for extraction. Using with UV invisible ink, this technology enables all printed materials to have meta data without affecting appearance.

Extracting Technology

Image processing technology enables 2D barcode to be printed on texts and images without affecting appearance



Code and tests are overlapped

Layout Technology

Simulated layout enables 100% code extraction ratio in theory using the same algorithm of extraction



Code extraction rate = 100%

Advantages over existing technologies

Existing technology	RFID	Watermarking	Visible QR code
Advantages	Cost (RFID costs appx. 1\$. , ours is just printing)	Payload (Watermarking is at most 150bits, our is tens of thousands bits)	Appearance, space (visibleQR codes occupy spaces and degrade the appearance, but ours are invisible)